

**California State
University
Los Angeles**

**Catalog
2013-2014**



California State University, Los Angeles

University Catalog 2013-2014

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California State University, Los Angeles

5151 State University Drive
 Los Angeles, California 90032
www.calstatela.edu
 (323) 343-3000



Cal State L.A. is committed to student-centered learning, free scholarly inquiry, and academic excellence within a diverse community.

In addition to meeting fully its obligations under federal and state law, Cal State L.A. is committed to creating a community in which a diverse population can live, work and learn in an atmosphere of tolerance, civility and respect for the rights and sensibilities of each individual. To that end, all qualified individuals will receive equal consideration without regard to economic status, race, ethnicity, color religion, national origin or cultural background, political views, sexual orientation, or other personal characteristics or beliefs.

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"I am honored to join a university as outstanding as Cal State L.A. and look forward to engaging with students, faculty, alumni and the community to build on its strengths and create opportunities for the future," said Covino. "The university is uniquely positioned in a global center for the arts, technology and the economy and it boasts a student population as diverse as the city it serves. Cal State L.A. truly reflects the changing face of California in the 21st century."

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Distinguished Alumni

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Alma mater of 220,000 alumni ... contributing to the future of Los Angeles and the world, including:

Billie Jean King – International all-time tennis great, winner of 20 Wimbledon titles

James A. Bell – Executive VP of finance, Boeing Company

Thomas V. McKernan, Jr. – President and CEO of the Automobile Club of Southern California

Lee Baca – Sheriff of Los Angeles County

Frank Romero – Muralist, artist

Leana S. Wen, M.D. – 2007 Rhodes Scholar

Steve Cooley – Los Angeles District Attorney

Art Leahy – CEO of LA Metro

Michael Antonovich – Member, Los Angeles County Board of Supervisors

Lillian Kawasaki – Scientist, member Water Replenishment District

Edward James Olmos – Actor, filmmaker

Pervaiz Lodhie – Founder, CEO of Ledtronics

Marshall Geller – Investment banker, senior managing partner, St. Cloud Capital LLC

Samuel Durrance – NASA astronaut (Columbia and Endeavour), astrophysicist and educator

Terrence J. Roberts – Psychologist

Felix Gutierrez – USC professor

Kent Twitchell – Muralist, artist

Mike Ten – City Council, South Pasadena

Alan J. Fohrer – Chairman and CEO, Southern California Edison

John Huerta – General Counsel, Smithsonian

Joseph Wambaugh – Novelist and bestselling author

Mary Micucci – Owner and President of Along Came Mary, event production and gourmet catering source

As a graduate of Cal State L.A., you're in distinguished company. Noted authors, athletes, artists, CEOs, educators, engineers, health care leaders, scientists, policy makers and innovators in many other fields got their start here too! www.alumni.calstatela.edu

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The Catalog

The University's eCatalog/mobile catalog is produced in the Office of Undergraduate Studies, which has overall responsibility for structure, layout, and editing. Steven Krentzman is the Webmaster.

The 2011-2014 print catalog may be purchased in person or ordered by mail from the University Bookstore. The price, established under regulations of the Board of Trustees of the California State University, is \$14.95. To order by mail, call the University Bookstore, (323) 343-2500, to obtain the cost for mailing. Send a request with check or money order to cover the cost of the catalog and mailing to: California State University, Los Angeles, Attention: University Bookstore, 5153 State University Drive, Los Angeles, CA 90032-8734. The catalog can be viewed online at www.calstatela.edu.

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the Presidents and their duly authorized designees.

Nondiscrimination Policy

Race, Color, Ethnicity, National Origin, Age, Genetic Information, Religion and Veteran Status

The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, genetic information, religion or veteran status in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. Mariel Mulet, Equity and Diversity Manager, has been designated to coordinate the efforts of California State University, Los Angeles to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to this person at 5151 State University Drive, Los Angeles, California 90032-8534, (323) 343-3040.

Disability

The California State University does not discriminate on the basis of disability in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. Kimberly Clapp has been designated to coordinate the efforts of California State University, Los Angeles to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. Inquiries concerning compliance may be presented to this person at Office for Students with Disabilities, phone (323) 343 3140.

Sex/Gender/Gender Identity/Gender Expression/Sexual Orientation

The California State University does not discriminate on the basis of sex, gender, gender identity, gender expression, or sexual orientation in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit

such discrimination. Mariel Mulet, has been designated to coordinate the efforts of California State University, Los Angeles to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to this person at 5151 State University Drive, Los Angeles, California 90032-8534, (323) 343-3040. The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics.

Title IX of the Education Amendments of 1972 protects all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and violence:

- Sexual discrimination means an adverse act of sexual discrimination (including sexual harassment and sexual violence) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.
- Sexual harassment is unwelcome conduct of a sexual nature that includes, but is not limited to, sexual violence, sexual advances, requests for sexual favors, indecent exposure and other verbal, nonverbal or physical unwelcome conduct of a sexual nature, where such conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the individual, and is in fact considered by the individual, as limiting the individual's ability to participate in or benefit from the services, activities or opportunities offered by the university. Sexual harassment also includes gender-based harassment, which may include acts of verbal, non-verbal or physical aggression, intimidation or hostility based on sex or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.
- Sexual violence means physical sexual acts (such as unwelcome sexual touching, sexual assault, sexual battery and rape) perpetrated against an individual without consent or against an individual who is incapable of giving consent due to that individual's use of drugs or alcohol, or disability.
- See further information in California State University, Los Angeles sexual violence prevention and education statement, which includes facts and myths about sexual violence at http://www.calstatela.edu/univ/hrm/title_ix.php

Whom to Contact If You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Your campus Title IX Coordinator is available to explain and discuss your right to file a criminal complaint (for example, in cases of sexual assault and violence); the university's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. *If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.*

Campus Title IX Coordinator:

- Mariel Mulet
- Mariel.Mulet@calstatela.edu
- 323-343-3041
- M-F 8 a.m. to 5 p.m.

University Police

- John Hernandez, Interim Chief of Police
- North End of Lot 1
- 323-343-3700 Phone / 323-221-6350 Fax

U.S. Department of Education, Office for Civil Rights:

- (800) 421-3481 or ocr@ed.gov

If you wish to fill out a complaint form online with the OCR, you may do so at: <http://www2.ed.gov/about/offices/list/ocr/complaintintro.html>.

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of sex discrimination complaints, including sexual harassment and violence. CSU Executive Order 1074 (<http://www.calstate.edu/eo/EO-1074.pdf>) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Except in the case of a privilege recognized under California law (examples of which include Evidence Code §§1014 (psychotherapist-patient); 1035.8 (sexual assault counselor-victim); and 1037.5 (domestic violence counselor-victim), any member of the University community who knows of or has reason to know of sexual discrimination allegations shall promptly inform the campus Title IX Coordinator.

Regardless of whether an alleged victim of sexual discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or violence, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any sex discrimination/harassment, prevent its recurrence, and remedy its effects.

Safety of the Campus Community is Primary

The university's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for sexual discrimination, harassment or violence; therefore, victims should not be deterred from reporting incidents of sexual violence out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual violence shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding Campus, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual assault may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, employees and students may face discipline at the university. Employees may face sanctions up to and including dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are charged by the university with sexual discrimination, harassment or violence will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1073 at <http://www.calstate.edu/eo/EO-1073.pdf>) or any successor executive order) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include: immediate interim suspension from the university; a required move from university-owned or affiliated housing; adjustments to course schedule; and/or prohibition from contact with parties involved in the alleged incident.

Additional Resources

- California State University, Los Angeles' sexual violence prevention and education statement, which includes facts and myths about sexual violence, at http://www.calstatela.edu/univ/hrm/title_ix.php
- U.S. Department of Education, regional office:
Office for Civil Rights
50 Beale Street, Suite 7200
San Francisco, CA 94105
(415) 486-5555
TDD (877) 521-2172
- U.S. Department of Education, national office:
Office for Civil Rights
(800) 872-5327
- Know Your Rights about Title IX
<http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html>
- California Coalition Against Sexual Assault (<http://calcasa.org/>)
1215 K. Street, Suite 1850
Sacramento, CA 95814
(916) 446-2520
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233)
- Office of Violence against Women, United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence
- Defending Childhood, United States Department of Justice

(Additional information may be found in [Procedures and Regulations.](#))

Campus Nonviolence Policy

California State University, Los Angeles is committed to creating and maintaining a working, learning, and social environment for all members of the University community that is free from violence.

Civility, understanding, and mutual respect toward all members of the University community are intrinsic to excellence in teaching and learning, to the existence of a safe and healthful workplace, and to maintenance of a campus culture and environment that serves the needs of its many constituencies. Threats of violence or acts of violence not only impact the individuals concerned, but also the mission of the University to foster higher education through open dialogue and the free exchange of ideas. The University prohibits and will take decisive action to eliminate verbal harassment, violent acts, threats of violence, or any other behavior which by intent, action, or outcome harms another person. Such conduct is subject to disciplinary action up to and including dismissal from employment, expulsion from the University, or civil or criminal prosecution as appropriate.

The University has no tolerance for violence against and by members of the University community. To fulfill this policy, the University will work to prevent violence from occurring and will ensure that federal and state laws, as well as University regulations prohibiting violence, are fully enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered.

Established University faculty, staff, and student and Department of Public Safety procedures will serve as mechanisms for resolving situations of violence or threats of violence. Each allegation of violence or threat of violence will be taken seriously. Individuals are encouraged to report acts of violence, threats of violence, or any other behavior which by intent, act or outcome harms another person.

*Approved by the Cal State L.A. Academic Senate and
President James M. Rosser - Summer 1996*

Consensual Sexual Relations Between Faculty and Students

"Sexual relations between students and faculty members with whom they also have an academic or evaluative relationship are fraught with the potential for exploitation. The respect and trust accorded a professor by a student, as well as the power exercised by the professor in an academic or evaluative role, make voluntary consent by the student suspect. Even when both parties initially have consented, the development of a sexual relationship renders both the faculty member and the institution vulnerable to possible later allegations of sexual harassment in light of the significant power differential that exists between faculty members and students.

"In their relationships with students, members of the faculty are expected to be aware of their professional responsibilities and avoid apparent or actual conflict of interest, favoritism, or bias."

It is unprofessional conduct for a faculty member to engage in any sexual relationship with a student while he or she is enrolled in that faculty member's class, or if a faculty member is acting in any other capacity that may directly affect the student's academic career.

Failure to follow these standards will be grounds for investigation or disciplinary action.

* *The language in quotation marks is from the Statement adopted by the 81st Annual Meeting of the A.A.U.P.*

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, included provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning these requirements is available from Amy Wang, Director, International Office, (323)

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code, Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to records maintained by the campus and the release of such records. Please see Appendix F in this catalog for details.

Familiarity with the Institution's rules and regulations published in this catalog shall be the responsibility of each student and faculty member, and of those administrative offices concerned with academic matters.

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Key Dates: Fall 2011 through Fall 2016

FALL QUARTER 2011

September 22	Fall quarter; classes begin
October 10	Columbus Day; campus open
November 11	Veterans' Day; campus closed
November 24-26	Thanksgiving holidays; campus closed
December 5-10	Final examinations
December 11-January 8	Campus closed
December 26	Christmas Day observed; campus closed

WINTER QUARTER 2012

January 2	New Year's Day observed; campus closed
January 9	Winter quarter; classes begin
January 16	Martin Luther King, Jr.'s birthday; campus closed
February 13	Lincoln's birthday; campus open
February 20	Washington's birthday; campus open
March 19-24	Final examinations
March 25-April 1	Student recess

SPRING QUARTER 2012

March 30	Cesar Chavez Day observed; campus closed
April 2	Spring quarter; classes begin
April 27	Honors Convocation
May 28	Memorial Day; campus closed
June 11-16	Final examinations
June 15-16	Commencement
June 17-24	Student recess

SUMMER QUARTER 2012

June 25	Summer quarter; classes begin
July 4	Independence Day; campus closed
September 4-8	Final examinations
September 3	Labor Day; campus closed
September 9-17	Student recess

FALL QUARTER 2012

September 20	Fall quarter; classes begin
October 11	Columbus Day; campus open
November 12	Veterans' Day; campus closed
November 22-24	Thanksgiving holidays; campus closed
December 3-8	Final examinations
December 9-January 6	Student recess
December 24-29	Campus closed

WINTER QUARTER 2013

January 1	New Year's Day observed; campus closed
January 7	Winter quarter; classes begin
January 21	Martin Luther King, Jr.'s birthday; campus closed
February 12	Lincoln's birthday; campus open

February 18	Washington's birthday; campus open
March 18-23	Final examinations
March 24-April 1	Student recess
April 1	Cesar Chavez Day observed; campus closed

SPRING QUARTER 2013

April 2	Spring quarter; classes begin
April 26	Honors Convocation
May 27	Memorial Day; campus closed
June 11-15	Final examinations
June 14-15	Commencement
June 16-23	Student recess

SUMMER QUARTER 2013

June 24	Summer quarter; classes begin
July 4	Independence Day; campus closed
September 2	Labor Day; campus closed
September 3-7	Final examinations
September 8-25	Student recess

FALL QUARTER 2013

September 26	Fall quarter; classes begin
October 14	Columbus Day; campus open
November 11	Veterans' Day; campus closed
November 28-30	Thanksgiving holidays; campus closed
December 9-14	Final examinations
December 15-January 5	Student recess
December 23-28	Campus closed

WINTER QUARTER 2014

January 1	New Year's Day observed; campus closed
January 6	Winter quarter; classes begin
January 20	Martin Luther King, Jr.'s birthday; campus closed
February 12	Lincoln's birthday; campus open
February 17	Washington's birthday; campus open
March 17-22	Final examinations
March 23-31	Student recess
March 31	Cesar Chavez Day observed; campus closed

SPRING QUARTER 2014

April 1	Spring quarter; classes begin
April 25	Honors Convocation
May 26	Memorial Day; campus closed
June 9-14	Final examinations
June 13-14	Commencement
June 15-22	Student recess

SUMMER QUARTER 2014

June 23	Summer quarter; classes begin
July 4	Independence Day; campus closed
September 1	Labor Day; campus closed
September 2-6	Final examinations
September 7-24	Student recess

FALL QUARTER 2014

September 25	Fall; classes begin
October 13	Columbus Day; campus open
November 11	Veterans' Day; campus closed
November 27-29	Thanksgiving holidays; campus closed
December 8-13	Final examinations
December 14-January 4	Student recess
December 22-27	Campus closed

WINTER QUARTER 2015

January 1	New Year's Day; campus closed
January 5	Winter quarter; classes begin
January 19	Martin Luther King, Jr.'s birthday; campus closed
March 16-21	Final examinations

March 22-29 Student recess

SPRING QUARTER 2015

March 30 Spring quarter; classes begin
March 31 Cesar Chavez Day observed; campus closed
May 25 Memorial Day; campus closed
June 8-13 Final examinations
June 12-13 Commencement
June 14-21 Student recess

SUMMER QUARTER 2015

June 22 Summer quarter; classes begin
July 3 Independence Day observed; campus closed
September 7 Labor Day; campus closed
August 31-September 5 Final examinations
September 6-20 Student recess
September 6-20 Memorial Day; campus closed

FALL QUARTER 2015

September 24 Fall; classes begin
November 11 Veteran's Day observed; campus closed
November 26-28 Thanksgiving holidays; campus closed
December 7-12 Final examinations
December 13-January 3 Student recess

WINTER QUARTER 2016

January 1 New Year's Day; campus closed
January 4 Winter quarter; classes begin
January 18 Martin Luther King, Jr.'s birthday; campus closed
March 14-19 Final examinations
March 20-27 Student recess

SPRING QUARTER 2016

March 28 Spring quarter; classes begin
March 31 Cesar Chavez Day; campus closed
May 30 Memorial Day; campus closed
June 6-11 Final examinations
June 10-11 Commencement
June 12-19 Student recess

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California State University, Los Angeles, founded in 1947 by the California State Legislature, is a comprehensive University that offers programs of higher education in an array of academic and professional fields. The University's six Colleges, along with the Honors College and College of Extended Studies and International Programs, offer more than 60 academic schools, divisions and departments that draw students from all areas of the United States and the world. About one quarter of the campus' more than 20,000 students are engaged in postbaccalaureate study in programs leading to master's and doctoral degrees; teaching, service, and specialist credentials; certificates; and programs that lead to professional and academic advancement.

The campus reflecting L.A.

Near the edge of the city of Los Angeles, Cal State L.A. sits upon just over 175 hilltop acres with views of Pasadena and the mountains to the north, the San Gabriel Valley to the east, downtown Los Angeles to the west, and the Palos Verdes Peninsula and Catalina Island to the south. The Cal State L.A. Transit Center makes the University highly accessible by trains and buses serving all regional communities.

The campus site was once one of California's 36 original adobes, built in 1776 by Franciscan missionaries and destroyed by fire in 1908. Around the 1850s, it was settled as part of a Spanish land grant by the family of Juan Batista Batz, a Basque rancher from northern Spain. Known as the Rancho Rosa Castilla, it was named, according to local historians, for the wild rose that grew near the home. The name of the main drive through the campus harkens back to this historic heritage.

The Mission of the University

* For the Mission Statement, click [here](#).

The Faculty

Members of the Cal State L.A. faculty are well recognized for their academic and teaching excellence, through high levels of scholarship, research, mentoring, and creative accomplishments. Virtually all of Cal State L.A.'s faculty members have earned the highest degrees in their field, most often a Ph.D., from leading universities. Cal State L.A. professors have been acknowledged as outstanding professors within the CSU system and at the state and national levels and have received numerous grants and awards, including several Fulbright grants in 2009-2010.

The greatest commitment of Cal State L.A. faculty is to teaching. Faculty members regularly involve students, including undergraduates, in research and creative activities, mentoring them through academic and career advisement. Various campus programs and University committees, on which students also serve, further develop supportive ties between faculty and students.

The Academic Year/Quarter System

Cal State L.A. operates year-round on the quarter system. Four quarters, each 11 weeks in duration, comprise the academic year. The summer quarter is a regular academic quarter, equal in all respects to the other three quarters. Students may maintain normal academic progress by full-time attendance during any three quarters of each year. Classes are scheduled weekdays from 7 a.m. until 10 p.m. and on Saturdays to serve the needs of full-time, part-time, and working students.

University Assessment Activities

Through the participation of students, faculty, staff, alumni, employers, and other community stakeholders, Cal State L. A. regularly assesses the effectiveness and ongoing improvements of University activities and programs to ensure it meets its mission, goals and objectives. The University evaluates and measures student learning in order to identify what students know, understand, appreciate, and can demonstrate following a learning experience. The program review process evaluates general education and degree programs, and assessment results are used for improvement. Construction updates since 2009:

The Wallis Annenberg Integrated Sciences Complex

The Wallis Annenberg Integrated Sciences Complex is home of the College of Natural and Social Sciences. This complex encompasses La Kretz Hall, Wing B, and the Lloyd Ferguson Courtyard. It includes classrooms, labs and offices for a number of science-based fields of research and study.

The Corporation Yard

Key operations that make sure that the University can function are housed in the two new structures that encompass Facilities Services; Facilities Planning and Construction; Risk Management and Environmental Health and Safety; Materials Management; and Shipping and Receiving. Housing/Golden Eagles Apartments

Scheduled to open after remodeling for Winter 2012, the Golden Eagles Apartments will offer affordable graduate student living, with single rooms in suites and two-bedroom apartments. At Phase II Housing, construction of a 150-seat dining facility will begin in late 2011.

Hydrogen Fueling and Research

Supported by federal, state and private resources, this sustainable facility is one of only a few stations in the Los Angeles County basin and is used for both research and as a public fueling station. The state-of-the-art facility will produce about 60 kilograms of hydrogen fuel daily—enough to serve 15 to 20 vehicles a day.

LACHSA

The Los Angeles County High School for the Arts (LACHSA) offers a specialized program combining college-preparatory academic instruction and conservatory-style training in the visual and performing arts. Located north of the Music building between Parking Structure C and Student Housing, the new school building—currently in construction—is to be a shared facility with Cal State L.A.

Los Angeles County High School for the Arts (LACHSA)

A collaboration between the Alliance for College-Ready Public Schools (a charter management organization) and Cal State L.A., Stern MASS focuses on preparing students to pursue college degrees in the science, technology, engineering, and mathematics (STEM) fields. The building, housing 22 classrooms, four science labs, a multipurpose room, library and a CSULA professional development center, was dedicated in 2009.

Public Safety/University Police

Dedicated to the safety and protection of the entire campus community, the home of Public Safety/University Police, accredited by the Commission on Accreditation for Law Enforcement Agencies, is near the campus entrance and adjacent to The Welcome Center. The facility features all modern amenities and services needed to protect and serve a large campus community.

Television, Film and Media Studies Center

The Television, Film and Media Studies Center, part of the College of Arts and Letters, offers students access to state-of-the-art technology along with innovative creative opportunities. The site of the former Church of Jesus Christ of Latter Day Saints includes a two-level parking structure and a multi-use room, classrooms, conference rooms, and office space.

University-Student Union and The Golden Eagle

The University-Student Union is home of the Alumni Center, Associated Students, Inc. (ASI) offices, along with clubs and organizations. The U-SU offers an expansive fitness center, theatre, computer lab and meeting rooms that connect to The Golden Eagle via a third-floor bridge. The Golden Eagle, home of the Pat Brown Institute and the College of Extended Studies and International Programs, also includes a food court, campus catering services, the University Club, a bookstore and major conference facilities.

Accreditation

Since 1954, California State University, Los Angeles has been fully accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC), 985 Atlantic Ave., Suite 100 Alameda, CA 94501, (510) 748-9001. The University's credential programs are approved by the California Committee on Accreditation. Professional degree programs offered, and the national societies and associations that accredit these programs are listed below:

Art

National Association of Schools of Art and Design (NASAD)
11250 Roger Bacon Drive, Suite 21, Reston, VA 20190
(703) 437-0700

Audiology (graduate)

American Speech-Language-Hearing Association (ASHA)
10801 Rockville Pike, Rockville, MD 20852
(301) 897-5700; (800) 498-2071

Business Administration

AACSB—The Association to Advance Collegiate Schools of Business
600 Emerson Road, Suite 300, St. Louis, MO 63141-6762
(314) 872-8481

Chemistry

American Chemical Society (ACS)
1155 Sixteenth Street, NW, Washington, DC 20036
(202) 872-4589; (800) 227-5558

Education

National Council for Accreditation of Teacher Education (NCATE)
2010 Massachusetts Ave., NW, Suite 500
Washington, DC 20036
(202) 466-7496

California Committee on Accreditation (COA)
1900 Capitol Avenue
Sacramento, CA 95814
(916) 445-0184

Engineering (undergraduate)

[B.S. degrees in Civil, Electrical, and Mechanical Engineering]
Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)
111 Market Place, Suite 1050, Baltimore, MD 21202
(410) 347-7700

Music

National Association of Schools of Music (NASM)
11250 Roger Bacon Drive, Suite 21, Reston, VA 20190
(703) 437-0700

Nursing

National League for Nursing (NLN)
61 Broadway, 33rd Floor,
New York, NY 10006
(800) 669-1656

California Board of Registered Nursing (CBRN)
400 R Street, Suite 4030, Sacramento, CA 94244 (916)
322-3350

Nutritional Science Coordinated Dietetics Program (CDP) (undergraduate and graduate)

American Dietetic Association (ADA)
216 W. Jackson Blvd., Chicago, IL 60606-6995
(312) 899-0040, Ext. 4876

Psychology (graduate)

Association for Behavior Analysis: International 213 West Hall, Western Michigan University
1201 Oliver Street
Kalamazoo, MI 49008-5052
(616) 387-8341

Public Administration (graduate)

National Association of Schools of Public Affairs and Administration (NASPAA)
1120 G Street, Suite 730, NW, Washington, DC 20005
(202) 628-8965

Rehabilitation Counseling

Council on Rehabilitation Education (CORE)
1835 Rohlfing Road, Suite E, Rolling Meadows, IL 60008
(847) 394-1785

School Counseling and Student Personnel Services

Council for Accreditation of Counseling and Related Educational Programs (CACREP)
5999 Stevenson Ave., 4th Floor
Alexandria, VA 22304-3300
(703) 823-9800, Ext. 301; (800) 347-6647 Ext. 301

Social Work (BA accredited; MSW accredited)

Council on Social Work Education (CSWE)
1725 Duke Street, Suite 500, Alexandria, VA 22314-3457
(703) 683-8080

Speech-Language Pathology (graduate)

American Speech-Language-Hearing Association (ASHA)
10801 Rockville Pike, Rockville, MD 20852

Affiliations

Cal State L.A. holds membership in a number of national and regional organizations concerned with the advancement of higher education. They include the American Council on Education (ACE), the American Association of State Colleges and Universities (AASCU), the Association of American Colleges and Universities (AAC&U), the Association of American Colleges, Council of Graduate Schools, National Collegiate Honors Council, Western Association of Graduate Schools, and the Western Association of Schools and Colleges (WASC). Women graduates are qualified for membership in the American Association of University Women (AAUW).

The John F. Kennedy Memorial Library

The John F. Kennedy Memorial Library supports Cal State L.A.'s academic programs through collections, technology, services and instruction that facilitate student and faculty access to a broad range of recorded knowledge and information resources. The Library provides well-organized and effective access to both local and remote sources. Electronic resources are accessible to CSULA students, wherever their location, through the Internet. The Library provides access to knowledge resources and information appropriate to each College's departments and programs, along with needed instruction and support. The Library offers user-oriented assistance in selecting, locating, and using resources. Its instructional program fosters life-long learning and develops competency in the use of resources and research methodologies. The Library is located at the center of the campus in two interconnected buildings—Library North and the Palmer Wing. A comprehensive guide to the Library's collections and online databases can be viewed at: <http://www.calstatela.edu/library>.

Collections

The Library's collections of more than one million volumes include significant current and retrospective scholarly work that supports the University's academic programs. Over 18,000 e-books may be accessed via the Library's website. The Library's holdings also include online access to over 49,000 digital journals and more than 140 electronic indexes (databases) accessible both on and off campus.

The Library also houses media and special collections containing DVDs, sound recordings, multimedia, art images, archival and rare manuscript collections, and a complete collection of Cal State L.A. master's degree theses. The Library is an official depository for U.S. government and California state publications.

Services

Library faculty and staff at the Reference Center, located on the first floor of Library North, assist library users with reference and research questions, and provide individual assistance on the use of the Library's website, catalog, and databases. Other library services include a music and media center, interlibrary borrowing of materials, over 120 self-service networked computer workstations, self-service photocopying and printing, and group study rooms. Electronic reserves are accessible from the Library's website.

Access to the book collections of all libraries within the CSU system is provided through CSU Union Catalog, a state-of-the-art, common user interface to extensive CSU information resources. Students, faculty, and staff may request books from any CSU library, thus gaining access to 23 campus collections that contain over 3.9 million titles and 12 million volumes. . In addition, books and articles not in the CSU system may be requested through the Library's Interlibrary Loan service.

Cal State L.A. faculty and students may also use other collections through reciprocal borrowing agreements. Currently, on-site borrowing is permitted at the following institutions: East Los Angeles College, Pasadena City College, Glendale Community College, Los Angeles Community College, L.A. Trade Tech College, and Rio Hondo College.

Library Instruction

The Library and the entire world of information are undergoing enormous change. Information search, discovery, and analysis have become foundational for student learning. Research skills have become increasingly centered on the use of digital resources and specialized online databases. The goal of Library instruction is to develop information literacy, that is, habits of critical inquiry surrounding information. Each academic unit and program has a librarian assigned to assist in developing information curriculum at the level of the major. Library faculty provides generalist and discipline-specific research instruction in any number of settings including library courses (below), workshops, and tutorials.

Information Literacy

Information literacy is designed to develop the necessary information skills needed to carry out successful research for coursework. Information literate individuals can: formulate a research question or problem; determine their information requirements; locate and retrieve information effectively; organize, analyze, evaluate, and synthesize information critically; and are able to communicate and present information in a coherent fashion. In addition, information literate individuals understand the ethical, legal, and socio-political issues in the retrieval, use and presentation of information. The acquisition of information literacy skills occurs progressively and reflects both general and disciplinary information needs.

Information Technology Services

Information Technology Services (ITS) provides the technology infrastructure, support services and resources that support the University's Strategic Directions and Goals and ensures that information security assurance remains an institutional priority. ITS strives to provide all students, faculty and staff with anywhere, anytime electronic access to information resources in support of the teaching/learning mission of the University. To guide the University toward a future technology environment featuring even richer and more robust services, the division provides planning, collaboration, training, development, implementation and stewardship of technology and information resources.

Information Security Assurance

Today, identity theft and fraud are common crimes. They occur quickly, indiscriminately and may go undetected. While technology helps protect confidential information, it cannot replace attentive, cautious behavior when using computers, laptops, electronic storage devices, multi-purpose copiers and print materials in file cabinets and on desks, printers and copiers.

Information security assurance is an institutional priority for Cal State L.A. Everyone on campus is responsible for protecting confidential information in every format: electronic or printed. Ongoing and vigilant efforts by the entire campus community to safeguard University information, resources, reputation and integrity are vital. For more on information security, please call 323-343-2600 or go to www.calstatela.edu/its/itsecurity/.

The California State University International Programs

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 20,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 50 recognized universities and institutions of higher education in 18 countries, the International Programs also offers a wide selection of study abroad destinations and learning environments.

Australia	Griffith University Macquarie University Queensland University of Technology University of Queensland University of Western Sydney Victoria University
Canada	Concordia University (Montréal)
Chile	Pontificia Universidad Catolica de Chile (Santiago)
China	Peking University (Beijing)
Denmark	Danish Institute for Study Abroad (international education affiliate of the University of Copenhagen)
France	Institut Catholique de Paris, Université d'Aix-Marseille (Aix-en-Provence), Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII, Université Paris-Est Marne-la-Vallée, Université d'Evry Val d'Essonne, and Université de Versailles Saint-Quentin-en-Yvelines.
Germany	University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg
Ghana	University of Ghana, Legon
Israel	University of Haifa
Italy	CSU Study Center (Florence) Università degli Studi di Firenze La Accademia di Belle Arti Firenze
Japan	Waseda University (Tokyo) University of Tsukuba
Korea	Yonsei University (Seoul)
Mexico	Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
South Africa	Nelson Mandela Metropolitan University, Port Elizabeth
Spain	Universidad Complutense de Madrid Universidad de Granada Universidad de Jaén
Sweden	Uppsala University
Taiwan	National Taiwan University (Taipei) National Tsing Hua University (Hsinchu)
United Kingdom	Bradford University Bristol University Hull University Kingston University Swansea University

International Programs pays tuition and administrative costs abroad for participating California resident students to a similar extent that such funds would be expended to support similar costs in California. Participants are responsible for all CSU tuition and program fees, personal costs, such as transportation, room and board, and living expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

To qualify for admission to the International Programs, in most programs students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs or courses in

Canada, China, France, Germany, Korea, Mexico, Sweden and Taiwan. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply, and must fulfill all coursework prerequisites.

For additional information and application materials contact the International Office, Student Affairs 115, (323) 343-3170; www.calstatela.edu/international; or by writing to The California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit us on the World Wide Web at www.calstate.edu/ip/

Extended Education

The College of Extended Studies and International Programs administers Extension programs, Special Sessions, Professional Development, Open University and the English Language Program (ELP).

Extension Programs

Credit and noncredit extension courses are provided at various locations for the academic, professional, and cultural enrichment of persons who do not wish to take college courses in residence. Students may take extension courses without matriculating at Cal State L.A. provided that they meet course prerequisites. Extension credit offerings are equivalent in level and quality to regular University courses, and many courses may be applied to degree and credential requirements. Extension courses do not satisfy the University's residence requirement for graduation. Schedules are flexible, but they generally parallel the University's quarter calendar. For more information about extension courses, call (323) 343-4900.

Special Sessions

Special Sessions provides degree-oriented courses and programs to persons who are unable to spend time in residence on the campus in existing programs. Courses are often conducted in nontraditional periods, sometimes at off-campus locations. The academic standards of special sessions are identical to those of comparable University programs. Examples include: interim sessions between regular terms; programs offered at remote locations; and programs for specific groups for which state support is inappropriate. Special sessions are not offered at times or places that supplant or limit offerings of state-supported programs. Degree credit earned through special sessions applies toward residence requirements. For further information, call (323) 343-4900.

Professional Development

The University works closely with community, business, and professional organizations to satisfy the educational needs of the geographic area it serves. In doing so, the University conducts a variety of professional development courses, often on site and often at atypical hours. Many courses are offered in response to requests by government agencies, business groups, and professional associations. Others are offered by Cal State L.A. on its own initiative. All courses can be customized to suit the customer's requirements. For more information, call (323) 343-4900.

Open University

Open University permits non-matriculated students to register concurrently with matriculated students in regular classes. Up to 36 units earned through Open University may be applied to a bachelor's degree at Cal State L.A., and up to 13 units may be applied to a master's degree.

Registration for Open University takes place in the College of Extended Studies and International Programs. The registration process is separate from that for matriculated students. It begins the first day of each quarter and continues for three weeks. There is no pre-registration. Students who register through Open University must obtain the signature of the instructor and the stamp of the department/division/school for each class they choose.

Students may not take courses that require direct supervision or that by their nature require a one-to-one relationship with an instructor, such as directed study, independent study, research, field work, cooperative education, thesis courses, etc. Students who register for 500-level courses must obtain a letter of approval from the department/division/school chair or director. Ongoing, matriculated students may not enroll in Open University. For more information, call (323) 343-4900.

English Language Program

The English Language Program (ELP) provides intensive English language instruction to students and professionals whose first language is not English. The program is open to persons with student, business or tourist visas, to residents and to regularly enrolled students who wish to improve in specific language areas. ELP is a non-credit program and offers intensive classes in English language skills (reading, writing, grammar, listening and speaking) along with college skills, TOEFL preparation, Business English and computer usage. Students who wish to apply may visit the ELP office located in the Golden Eagle, Room 211, or call (323) 343- 4840. ELP is authorized to issue the Certificate of Eligibility for Nonimmigrant (F-1) Student (Form I-20) needed to acquire the student visa.

Reserve Officer Training Programs

Air Force ROTC

Air Force ROTC provides selected students the opportunity to develop those attributes essential to positions of high responsibility as commissioned officers in the U.S. Air Force. This includes understanding Air Force history, doctrine, operating principles, and national security policies, demonstrating the ability to apply modern principles of management and human relations in the Air Force environment, and mastering of leadership theory and techniques. Students must demonstrate dedication to their assignments, willingness to accept responsibility, and the ability to think critically and communicate with clarity and precision.

Scholarships

ROTC Scholarships are awarded on a competitive basis to U.S. citizens regardless of parents' income. Scholarships provide tuition, a book allowance, fees, and a tax-free monetary allowance between \$300 and \$500 per month during the academic year. Applications for scholarships may be obtained at <http://www.afrotc.com> or by calling (310) 825-1742.

Contact

University of California Los Angeles
218 Student Activities Center
Box 951611

Los Angeles, CA 90095-1611
(310) 825-1742
fax: (310) 825-3055
www.afrotc.ucla.edu

Army ROTC

The Army Reserve Officers Training Corps (AROTC) program is available to qualified Cal State L.A. students via the University of California, Los Angeles (UCLA) program. Students must follow Cal State L.A. dual registration procedures. Students are encouraged to contact UCLA ROTC for instructions on how to cross-enroll into a UCLA course.

AROTC offers interested students an opportunity to enroll in courses focused on leadership, military tactics and law, orienteering, rappelling, first aid, and national security. Participants must be physically qualified and be full-time undergraduate or graduate students. Students may take one Army ROTC course per quarter at UCLA while pursuing a regular college degree at Cal State L.A. Academic credits earned in the program normally may be counted as electives within regular college degree requirements. Completion of a regular degree and AROTC class requirements may lead to a commission as an Officer in the U.S. Army, Army Reserve, or Army National Guard. Upon graduation, Officers serve in supervisory-level positions in Military Intelligence, Law, Aviation, Communications, Engineering, Finance, Nursing, and more!

Two, three, and four-year AROTC scholarships cover (a) full tuition or housing up to \$10,000, (b) \$900 allowance for books and fees, and (c) a monthly allowance up to \$500 while the student is enrolled in school. Veterans are eligible to receive the monthly allowance as well as G.I. Bill benefits. U.S. citizenship is required for scholarship acceptance. Permanent resident students may participate in classroom and outdoor training but are ineligible for benefits until naturalized.

For further information, contact the Department of Military Science at UCLA, (310) 825-7381 or armyrotc@milsci.ucla.edu.

The CSULA Alumni Association

The mission statement of the CSULA Alumni Association is:

To advance the welfare of CSULA by providing leadership and service that strengthens the connections among students, alumni and friends and enhances the value of their affiliation with the University.

The CSULA Alumni Association is a self-supporting nonprofit, dues-paying membership organization whose goals include engaging alumni, students and the campus community with the University.

The Association plays an important role on the campus to advocate for alumni interests. Cal State L.A.'s more than 215,000 graduates remain a vital and active catalyst in the University's growth and visibility. Alumni volunteers are active on campus committees and are in a unique position to provide advice and counsel to the University community.

The Association plans and implements programs and events for alumni, students and the University community. Perhaps the most visible program is the Alumni Awards Gala, which is held in the Luckman Fine Arts Complex and honors distinguished alumni, faculty, students and friends of Cal State L.A. Past award winners include; tennis professional Billie Jean King '79, Clippers owner Donald T. Sterling '56, President of the San Francisco Zoo Manuel Mollinedo '70 '73 '77, and Diane Watson '67, U.S. Congress 33rd District.

To join the Alumni Association, please visit us online at <http://alumni.calstatela.edu> or at the new Alumni Center in the University-Student Union, room 102. You may also contact us at (323) 343-ALUM (2586) or email at alum@cslanet.calstatela.edu.

Robert L. Douglass Speech-Language Clinic and Cal State L.A. Hearing Clinic

The Robert L. Douglass Speech-Language Clinic and the Cal State L.A. Hearing Clinic are housed on campus with the Department of Communication Disorders in the College of Health and Human Services. These clinics provide training facilities that offer diagnostic and rehabilitative services. The primary objective of the Speech-Language and Hearing Clinics is to serve the University's instructional programs by providing clinical training and research opportunities within each of the areas and across disciplines. This is accomplished by providing experiences for students that range from observation of the varied clinical activities to the provision of direct services to clients at the level of the students' clinical competence. Students learn under the supervision of experienced and appropriately credentialed faculty. The services are available to the public, both children and adults, and to members of the Cal State L.A. community.

Research, Scholarship and Supporting Services

Faculty members engage in research, scholarship, training, and special projects as an integral part of their academic discipline and professional development. Both undergraduate and graduate students participate, as research assistants or independent investigators under faculty guidance, in research that is basic to their learning experience. The Office of Graduate Studies and Research and the Office of Research and Development provide stimulus, coordination, support, and direction to these research efforts. Additional services are provided by University Auxiliary Services, Inc. Office of Research and Sponsored Programs, Academic Technology Support, and the John F. Kennedy Memorial Library.

Cal State L.A. University Auxiliary Services, Inc.

Cal State L.A. University Auxiliary Services, Inc. (UAS) is a recognized organization of the California State University system and is a nonprofit corporation, dedicated to benefiting the welfare of California State University students, faculty, staff and alumni. The primary mission of UAS is to help develop and administer contracts and grants; operate and manage University related commercial enterprises; manage and support externally funded projects including research, workshops, and conferences, and to provide contributions that aid and supplement the University's educational mission. Working together, the University community and UAS endeavor to ensure Cal State L.A.'s continued success.

The main operations of UAS include the following services to the University community: contracts and grants administration; bookstore contract management; operation and management of campus food services; and child care services.

UAS also manages the 103,000 square-foot Golden Eagle building. Opened in 2003, the building - two adjoining structures separated by a promenade - houses food services, including a food court with seating for approximately 750, kitchen and catering operations, a 600-seat banquet and conference center, the University Club restaurant, the 25,000 square-foot two-story University Bookstore, as well as UAS administrative offices, the

University's Office of Research & Sponsored Programs (ORSP), the Golden Eagle Service Center, classrooms and meeting spaces for the CSULA College of Extended Studies and International Programs and the Pat Brown Institute.

The policy-making responsibility for the UAS is vested in its board of directors, whose members represent a cross-section of the campus community and local service area.

For more information, visit the UAS website at www.universityauxiliaryservices.org.

University Bookstore

The University Bookstore, operated by Barnes & Noble College Stores, Inc., and under the auspices of the University Auxiliary Services, Inc., is located on the first and second floors in the east structure of the Golden Eagle Building. Textbooks, course packs, general books, software, study aids, Cal State L.A. clothing, school supplies, and gift items are available. Also located within the Bookstore is a convenience store that offers a selection of grab & go food, beverage and sundry items.

Endowed Chairs

Joseph A. Bailey II, M.D. Endowed Chair in American Communities

The endowed chair in American Communities is housed in the College of Arts and Letters. Funding was made possible by private donations, the National Endowment for the Humanities, and a naming gift from Joseph A. Bailey II, M.D., a retired orthopedic surgeon. Sub-funds of the endowed chair are established for the study of the African American Experience and the Jewish American Experience.

The individual who is selected to fill this chair explores the question "What does it mean to be an American?" through teaching, research and the sharing of insights. The chair studies the process of transition from traditional cultures to American communities, examining the impact of that process on the evolution of American culture and values. The full range of humanities disciplines provide the lens through which to explore the ways that this identity is embodied or reflected in American cultural expressions.

Matthew J. Guglielmo Endowed Chair in Mental Retardation

The Endowed Chair in Mental Retardation, housed in the Division of Special Education and Counseling, Charter College of Education, was established to honor Matthew J. Guglielmo, former vice president of The Broadway Department Stores, and was made possible by contributions from The Broadway and friends of Mr. Guglielmo.

Mr. Guglielmo has dedicated a major part of his life to focusing public attention on problems of the developmentally disabled. The chair continues to support excellence in teaching, significant research in the study of mental retardation, and collaboration between Cal State L.A. and community agencies and institutions that serve mentally retarded persons and their families.

Northrop Grumman Engineering Endowed Chair

The Northrop Grumman Engineering Endowed Chair was established in the College of Engineering, Computer Science, and Technology to bring distinguished engineers and engineering educators in the field of design and manufacturing to the College for a one- to two-year period. Funding was made possible through a generous lead gift from the Northrop Grumman Corporation and additional matching support received from other smaller companies throughout the Southern California business community.

The individual selected to fill the chair works with the College faculty and administration to provide leadership in improving the quality of Cal State L.A.'s engineering, computer sciences and technology programs, enhance the College's manufacturing curriculum, and assist the College in fostering strong relationships with key contacts in industry and government to strengthen our research and external support

Presidentially Chartered Centers, Institutes and Bureaus at California State University, Los Angeles

A presidentially chartered center, institute, or bureau is an entity chartered by the President of the University to further the mission of the campus. The following descriptions explain the focus of each.

Applied Gerontology Institute

The institute's purpose is to improve the quality of care and delivery of services to older persons through the interdisciplinary education and training of professionals, paraprofessionals, family members, community agency personnel, and volunteers. Of special interest is the development and promotion of programs to serve culturally diverse groups. The Institute emphasizes the development of partnerships between the University and the community that promote the well being of older persons and improve service delivery. An additional goal is to seek financial support in the form of scholarships for students planning to enter health and human service careers with a specialization in aging.

The Institute coordinates a multidisciplinary program to earn a certificate in Applied Gerontology designed to assist individuals interested in increasing their knowledge, understanding, skills, and effectiveness with older populations, especially the multiethnic and multiracial elderly. The program is designed not only for individuals interested in careers in gerontology but also those who are seeking a career change and those already in the field seeking to enhance their opportunities for advancement. Educational opportunities in developing expertise in community-based health and welfare programs as they relate to policy development have also been implemented.

Asian and Asian American Institute

The purpose of the institute is to identify issues and coordinate activities leading to the understanding and betterment of Asians and Asian Americans at Cal State L.A. Although it functions primarily as a campus resource and as a bridge between the University and its surrounding communities, the Institute promotes and supports programs that encourage Asian and Asian American research. It works closely with the Asian and Asian American Studies programs and other ethnic studies programs on and off campus.

Asian Pacific Business Institute

Housed in the College of Business and Economics at Cal State L.A., the Asian Pacific Business Institute aims to support and foster cooperative

relationships between the college and local business organizations. The growing importance of Asian economies has been one of the most significant global economic developments since the early 1980s. Increased economic interdependence between Asian countries and the U.S. leads to a variety of problems and issues concerning international business, but it also creates many opportunities. The Asian Pacific Business Institute seeks to provide support for both the business community and the University to identify, exploit, and benefit from those opportunities. The institute serves a wide range of audiences by developing, organizing, and promoting activities that can benefit students, faculty, and the business community. Through its activities, the institute can help advance the University's educational and public service missions, as well as contribute to economic development in Los Angeles. In addition, its activities can promote understanding and interaction among people from different parts of the world. The institute provides a wide range of expertise, services, and information that can benefit students, faculty, and the business community. Examples include executive training programs, business seminars, research, and exchange and internship programs.

Bureau of Business and Economic Research

The College of Business and Economics maintains a research bureau to encourage, facilitate, and communicate faculty and student research. The bureau's primary objective is to relay information about research opportunities and ongoing research efforts to faculty members and students. In addition, it assists in the preparation of research proposals, coordinates research efforts, and provides research advising services for M.S. and M.B.A. degree candidates.

California Forensic Science Institute

The California Forensic Science Institute, housed in the College of Health and Human Services, serves as the academic, research and development arm of the Regional Crime Laboratory, which will be a joint effort of the Los Angeles County Sheriff's Department, the Los Angeles Police Department, and the California Department of Justice. The CFSI research program will bridge the gap between scientific advances and crime laboratory utilization, and in addition, the institute will offer in-service training courses for current criminal justice system professionals.

Center for Contemporary Poetry and Poetics

The mission of the Center for Contemporary Poetry and Poetics is to provide a forum for parties interested in poetry and poetics. The Center sponsors activities and events which promote the presentation of the full diversity of poetic voices from the whole range of cultural backgrounds and in all poetic genres. The Center promotes the appreciation and understanding of contemporary poetry and poetics in all of its forms and it encourages research in poetry and poetics. By creating a forum for dialogue, research, celebration, production, and presentation of poetry and poetics, the Center serves as the vehicle to bring together scholars, students, poets, the community, and other interested parties for the study, creation, preservation, and promotion of poetry.

Center for Engagement, Service and the Public Good

The Center for Engagement, Service and the Public Good advances the public good through multiple pathways that empower Cal State L.A. students to develop their capacity for public service, civic engagement, and community leadership. The center includes the Educational Participation in Communities (EPIC) program and the Office of Service Learning and Community Engagement. EPIC is committed to community service through off-campus volunteer opportunities and on-campus service projects. The Office of Service Learning and Community Engagement provides support to faculty, students and community partners to facilitate project-based learning that links academic teaching, civic learning, and community engagement.

Working closely with departments, schools, colleges and the Pat Brown Institute, the center provides guidance for the implementation and assessment of programs that support curricular engagement, as well as for the Center for Student Involvement (CSI), which supports co-curricular and volunteer opportunities. The center is also overseeing the East Los Angeles Cradle to Career project, a collaboration that began with East Los Angeles College and the Los Angeles Unified School District.

Center for Engineering and Technology Education

Operated by the Department of Technology, College of Engineering, Computer Science, and Technology, the Center provides support and assistance for teachers, public agencies, business, and industry, including professional support and consulting, in-service activities, conferences and workshops, and disseminates professional information through an electronic bulletin communications network. Professional services offered in technology education and technical training include course, curriculum, and program development in advanced technologies such as robotics, computer-aided design (CAD), computer-aided manufacturing (CAM), desktop publishing, and fluid power. Assistance in problem solving for teachers of students with special needs also is provided.

Center for Excellence in Early Intervention

Housed in the Division of Special Education and Counseling, the Center was founded to create a model program for training early intervention professionals. Its objectives include developing, demonstrating, and evaluating the best practices in early intervention service delivery to young children with special needs and their families; providing early intervention training to professionals, paraprofessionals, and parents; developing and evaluating early intervention training and service delivery materials for dissemination to special educators, child development specialists, speech clinicians, allied health professionals, social workers, psychologists, physicians, and parents; and developing and operating a media and material library about early intervention.

Center for Japanese Studies

The Center serves Cal State L.A. and the community as a source to aid faculty, students, and the general public in broadening and deepening their knowledge of Japan, its people, and culture. The center promotes Japanese research and academic studies and supports educational and cultural programs, seminars, guest lectures, and conferences. The office maintains a collection of basic bibliographies and essential reference materials.

Center for Korean-American and Korean Studies

The Center is a depository of historical and cultural materials about Korea and Korean-Americans. Major objectives of the center are to promote, coordinate, and conduct research activities about various aspects of Korean culture and tradition, including oral histories; to compile, document, and produce curriculum materials about Korean folklore, art, music, and social activities; to develop extended studies programs about the Korean community's activities and programs for students, teachers, and the general public; to develop and produce curriculum materials and courses about Korean-American and Korean culture, tradition, and life; and to sponsor seminars, symposia, and exhibits about Korean culture and tradition.

Center for Multicultural Education

The Center's specific goals and objectives are to provide in-service training for faculty and staff, and pre-service training to students about issues

related to cultural pluralism, diversity, and multicultural education. The center can also provide assistance to faculty seeking a greater degree of infusion of multiculturalism into their curriculum. The Center provides technical assistance to college districts, and offers a Saturday morning field experience for Cal State L.A. students who tutor students from the community who are at educational risk.

Center for the Study of Genders and Sexualities

The Center for the Study of Genders and Sexualities is a university-wide, interdisciplinary center housed in the College of Arts and Letters. It is dedicated to providing support for scholars, teachers, and students who investigate gender and sexuality, particularly as they are exemplified in the diverse communities represented at Cal State L.A. and its surrounding area. Among the center's goals are to provide an institutional base of support for feminist, gay, lesbian, bisexual, and transgender scholarship, to support the revitalization of the Women's and Gender Studies curriculum, to offer campus networking events that support interdisciplinary investigation, to sponsor events and conferences including visiting scholars, artists, and public figures, and to support the provision of mentoring for students.

Child Abuse and Family Violence Institute

The institute's purpose is to promote effective prevention of, and intervention in, child abuse and domestic violence by providing interdisciplinary educational training and policy development programs, and state-of-the-art resources for students, professionals, and the community. The institute promotes interdisciplinary cooperation between the University and community agencies by identifying the University as a focal point and resource within the community, county, and state, and internationally to provide professional education and research in child abuse and domestic violence. A broad scope of interdisciplinary educational training, research, and field placement opportunities and programs is available to prepare individuals to provide effective multidisciplinary health and human services to maltreated children and their families.

Chinese Studies Center

The Center endeavors to promote understanding of, and interest in, China by sponsoring conferences, seminars, guest lectures, exhibits, concerts, and other Chinese cultural activities. It maintains a small library of basic reference materials about China. These materials are available to faculty, staff, and students. The center also serves the Chinese communities in Los Angeles and assists Cal State L.A. students of Chinese descent, and helps promote research and teaching in Chinese studies.

Edmund G. "Pat" Brown Institute of Public Affairs

The Pat Brown Institute of Public Affairs (PBI), named for former California Governor Edmund G. "Pat" Brown (1959-1967), is a nonpartisan, applied public policy center dedicated to the quest for social justice and equality of opportunity, enlightened civic engagement, and enhancing the quality of life for all Californians. PBI sustains the vision and legacy of the former California Governor through convening public policy forums, engaging multi sector stakeholders and diverse communities, and conducting timely policy research and community-driven initiatives.

Located on the Cal State L.A. campus since 1987, the PBI has developed a series of distinguished programs to carry out the urban mission of the University and create more inclusive and empowered urban communities in Southern California. They include the Public Policy Education Program, the Health Policy Outreach Center, and the Youth Enrichment Policy Program.

The Institute also offers public policy internships. In these efforts, the Institute works in collaboration with and on behalf of various community partners and constituencies including underserved communities and community organizations, K-12 schools, colleges and universities, state/local elected officials, public agencies, corporations, organized labor, and foundations.

Institute of Entrepreneurship

This institute, operated by the College of Business and Economics, provides programs and seminars and conducts research for small businesses in the product and service sectors. The programs, seminars, and courses are designed to provide the necessary training individuals need to succeed in small businesses. Research is conducted to provide insight into potential problems of small businesses and to suggest solutions. Publications for entrepreneurs are made available. The institute functions as a clearinghouse for information relative to small businesses. Other institute activities include assistance in advising students who are enrolled in the Entrepreneurship option of the B.S. degree in Business Administration and making available an information bank to both students and professionals.

Institute for Executive Leadership

The Institute for Executive Leadership assists administrators in Southern California and Pacific Rim nations such as China to meet the needs of society for high-quality leadership in public service and an efficient and ethical government. More specifically, the institute provides opportunities for public administrators to further their training and education in such areas as management technologies, communication and administrative ethics. The Institute for Executive Leadership has a three-fold strategy to achieve its mission: 1) Provide training workshops and seminars to upgrade and update administrative skills, and other educational opportunities for exchanging administrative experiences among officials from different government agencies at home and abroad; 2) Assist other governments in setting up training programs for public servants through offering professional advice; and 3) Create opportunities for faculty in public administration to lecture in other countries to help fledgling public administration programs at undergraduate and graduate levels.

Institute of Nursing

The Institute's primary purpose is to provide a vehicle for closer collaboration between the University and community agencies that provide health care. The institute emphasizes development of joint ventures and/or partnerships that lead to cost-benefit modes of health care delivery to a culturally diverse society. The institute's primary goals are to improve the quality of nursing education, to develop effective strategies for recruitment and retention of nursing students, to help meet the staffing needs of nursing services, to improve the quality of nursing practice, and to facilitate collaboration in the areas of research, teaching, and grant writing.

Institute of Retail Management

The Institute of Retail Management prepares college students for management level careers in major retail companies. For those who have an entrepreneurial inclination, it provides the expertise to open and operate their own retail business. The institute raises funds for retailing scholarships and cooperates closely with the Career and Development Center to increase retail recruitment on campus, as well as to create retail internships. The institute sponsors a Retailer of the Year Award Luncheon, one of the nation's major retailing events, at which a senior retail executive is honored for outstanding contributions to the retail industry. The institute administers the nationally acclaimed Institute of Retail Management College Incentive Program, a retail-jobs training program for Los Angeles innercity high college students, many of whom are awarded retailing scholarships and go on to college. The Institute's Advisory Council consists of executives of major retail and retail-related companies.

Pacific Contemporary Music Center

The Pacific Contemporary Music Center encourages the performance and promotes the awareness of contemporary musical compositions by composers from the Pacific Rim countries. The center sponsors contemporary music festivals and encourages other countries, universities, and organizations to join in sponsoring such festivals to present the members' compositions; encourages the mass media in participating countries to broadcast the members' music by providing copies of sound recordings; maintains a library of members' published and unpublished scores, sound recordings, performance documentation, and biographies; sends scores anywhere in the world for a period no longer than one month; publishes an annual catalog of the library holdings; sponsors and encourages contemporary seminars; and encourages research.

Pacific Rim Institute

A consortium created by Cal State L.A. and a group of Asian and U.S. firms to increase exchanges and improve communication and understanding between their corporate cultures, the institute seeks to provide managers in both U.S. and Pacific Asian business communities the knowledge and skills needed for managing the challenge of cultural differences. It also endeavors to increase their effectiveness in working together in each other's environment. These goals are accomplished through the presentation of seminars, forums, and briefings.

Roger Wagner Center for Choral Studies

The center provides a structure within which teachers, scholars, and performing artists can teach choral music; explore and encourage composition of new repertoire; foster research and scholarly publication of emerging topics pertinent to choral study. The center's activities include co-sponsorship of an international conference on Gregorian chant, presentation of a collection of scholarly articles, and an international choral composition contest.

Consortia

California Desert Studies Consortium

The California Desert Studies Consortium consists of seven Southern California campuses of The California State University which, together with the National Park Service, operate the Desert Studies Center in the eastern Mojave Desert. Participating campuses include Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, and San Bernardino. The purpose of the center is to provide a field facility in the Mojave Desert to develop desert studies educational programs and research activities.

Established in 1976, the center serves students in the areas of anthropology, astronomy, biology, engineering, geography, and geology and provides a substantial support base for environmental and ecological studies that have immediate implications for effective management of desert resources. The central location allows accessibility to all parts of the desert region. Lodging and laboratory/storage space are offered in support of field-oriented courses. The center also provides a site for independent study courses and research of desert phenomena by individual students and faculty.

The Desert Studies Consortium is administered by the CSU Fullerton campus. Cal State L.A.'s representatives to the consortium are Dr. Alan Muchlinski, associate dean, Graduate Studies and Research and Dr. Barry Hibbs, associate professor of Geological Sciences. For more information, contact Dr. Muchlinski at (323) 343-3820.

Ocean Studies Institute (OSI)

Opportunities for undergraduate and graduate study in the coastal environment are provided by the Ocean Studies Institute (OSI), which comprises eight State University campuses: Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, San Bernardino, and San Marcos. The OSI is administered by the Long Beach campus. The OSI operates out of the docks and laboratory facilities of the Southern California Marine Institute (SCMI), Fish Harbor, Terminal Island in the Los Angeles - Long Beach Harbor.

The OSI participates in training managers and scientists and educating the public by coordinating and facilitating marine educational and research activities. In addition, the institute serves as an educational and research liaison among regions, states, and nations.

Seagoing research laboratory and instructional facilities are provided aboard the R. V. Yellowfin, an oceangoing research vessel. The Yellowfin is the property of the institute, and its use is scheduled through the office of the SCMI at (310) 519-3172.

Several courses within the departments of Biological Sciences, Geological Sciences, and Psychology and the College of Engineering, Computer Science, and Technology, among others, utilize the Yellowfin and other Consortium facilities. These courses are announced in the *Schedule of Classes* each quarter. In addition, the eight campuses offer an intensive course of study each fall at the USC Wrigley Institute for Environmental Studies on Santa Catalina Island. Courses cover topics in marine biology and ecology, specialty areas, and a culminating research experience. Credits apply to graduation at the student's home campus.

Cal State L.A.'s representatives to the consortium are Dr. James Henderson, Dean, College of Natural and Social Sciences, and Dr. Elizabeth Torres, professor of Biological Sciences. For additional information, contact Dr. Henderson at (323) 343-2000 or Dr. Torres at (323) 343-2179.

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Admissions General Information

Requirements for admission to California State University, Los Angeles are set in accordance with Title 5, Chapter 1, Subchapter 3, of the *California Code of Regulations*. Complete information is available at www.csumentor.edu/planning/. Information is also available from Cal State L.A.'s Office of Admissions and Recruitment, Student Affairs 101, phone (323) 343-CSLA.

Electronic versions of CSU undergraduate and graduate applications are accessible on the World Wide Web at <http://www.csumentor.edu/>. The CSUMentor system allows students to browse through general information about CSU's twenty-three campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission.

Applying online via www.csumentor.edu is expected unless electronic submission is impossible. An acknowledgement will be sent when online applications have been submitted. Application in "hard copy" form may be obtained online via www.csumentor.edu as a portable data format (PDF). Application forms (in PDF) may also be downloaded from www.calstate.edu/sas/publications. [Paper applications should be mailed to the campus admission office(s)]

Cal State L.A. admits high school graduates as first-time freshmen, those from community colleges and degree-granting colleges and universities as undergraduate transfer students, and those who hold acceptable baccalaureates as postbaccalaureate or graduate students.

Importance of Filing Complete and Accurate Application for Admission Documents

Cal State L.A. advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, *California Code of Regulations*).

Residence Determination

The determination about whether students qualify as legal residents of California for admission and tuition purposes is made by a review of information in the residence questionnaire that all applicants submit with their application for admission. For a summary statement of the principal rules and exceptions about residence determination, see Appendix B.

Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus will have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted or admission to the desired program or admission categories are closed. This access is offered without students being required to be admitted formally to the host campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as elective credit, students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California community colleges. Additional information about these programs is available from the Office of Admissions and Recruitment at (323) 343-3901.

CSU Concurrent Enrollment – matriculated students in good standing may enroll on a space available basis at both their home CSU campus and a host CSU campus during the same term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus. Many online courses at CSU campus are available for concurrent enrollment.

CSU Visitor Enrollment – matriculated students in good standing enrolled at one CSU campus may enroll on a space available basis at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

Intersystem Cross Enrollment – matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

CSU Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment.

Measles and Rubella

All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment.

Hepatitis B

All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. If you need further details or have special circumstances, please consult the Student Health Center at (323) 343-3300. Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination. These are **not** admission requirements, but are required of students as conditions of enrollment in CSU.

Meningococcal Disease Information

Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination.

The above are not admission requirements, but are required of students as conditions of enrollment in CSU. (CSU Executive Order No. 803). These proofs of immunizations may be sent by mail, brought in person, or faxed to the Student Health Center at (323) 343-3301.

Tuberculosis (TB)

In addition to the above Measles/Rubella immunization requirement, all new and returning international students and Student Housing tenants must provide acceptable proof of a negative tuberculosis (TB) test or chest x-ray taken within the past year. The form is available in the Housing Services offices. Verification may be sent by mail, brought in person, or faxed to the Student Health Center at (323) 343- 3301. The Student Health Center mailing address is: Student Health Center, Cal State L.A., 5151 State University Drive, L.A., CA 90032-8411.

Measles/Rubella immunizations and TB tests and chest x-rays are offered at the Student Health Center. Call the MR/TB Information Line, (323) 343-3300, for complete instructions, clinic dates, and fees. For questions you may have regarding a registration hold, call directly to (323) 343-6547. The fax number is (323) 343-6557.

Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

Undergraduate Admission Requirements

Freshman Requirements

Generally, applicants will qualify for consideration for first-time freshman admission if they meet the following requirements:

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination; and
2. Have a qualifiable minimum eligibility index (see section on Eligibility Index); and
3. Have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see "Subject Requirements"). The university has no current plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index.

Eligibility Index

Eligibility Index – The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements, and bonus points for approved honors courses.

Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding your total score on the mathematics and critical reading scores of the SAT. Students who took the ACT, multiply your the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes), need a minimum index of 2900 using the SAT or 694 using the ACT. The Eligibility Index Table illustrates several combinations of required test scores and averages.

The CSU uses only the SAT mathematics and critical reading scores in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses in the computation of the CSU Eligibility Index.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes, need a minimum index of 3502 (SAT) or 842 (ACT). Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

An applicant with a grade point average of 3.00 or above (3.61 for nonresidents) is not required to submit test scores. However, all applicants for admission are urged to take the SAT or ACT and provide the scores of such tests to each CSU to which they seek admission. Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU campuses and programs require SAT or ACT scores of all applicants for freshman admission.

Subject Requirements

The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government.
- 4 years of English.
- 3 years of math (algebra, geometry and intermediate algebra).
- 2 years of laboratory science (1 biological and 1 physical, both must include laboratory instruction).
- 2 years in the same language foreign language (subject to waiver for applicants demonstrating equivalent competence).
- 1 single year long approved course in visual and performing arts: art, dance, drama/theater, or music.
- 1 year of electives: selected from English, advanced mathematics social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "a-g" list.

Foreign Language Subject Requirement

The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to, or higher than, that expected of students who complete two years of foreign language study. Consult your school counselor or any CSU campus Admissions or Outreach and Recruitment Office for further information.

Substitution for Students with Disabilities

Applicants with disabilities are encouraged to complete college preparatory course requirements if possible. If you are judged unable to fulfill a specific course requirement because of your disability, you may substitute alternative college preparatory courses for specific subject requirements.

Substitutions may be authorized on an individual basis after review and recommendation by your academic adviser or guidance counselor in consultation with the director of a CSU program for students with disabilities. Although the distribution may be slightly different from the course pattern required of other students, students who qualify for substitutions will still be held for 15 units of college preparatory study. You should be aware that failure to complete courses required for admission may limit your later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please contact the Director of Services for Students with Disabilities at your nearest CSU campus.

Honors Courses

Grades in up to eight semester courses designated as honors courses in approved subjects and taken in the last two years of high school receive additional points in grade point average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; and C, 3 points.

College Preparatory Courses Recommended

Most academic advisers agree that preparation for university study includes preparation in subjects beyond English and mathematics. Bachelor's degree curricula build upon previous study in the natural sciences, social sciences, visual and performing arts, foreign languages, and the humanities. Students who plan to major in mathematics, the sciences (including computer science), engineering, premedicine, other science-related fields, business, or economics should complete four years of college preparatory mathematics. Students in the social sciences and preprofessional fields of study should include at least three years of college preparatory mathematics in their studies. Further, all students should include English and mathematics in the final year of high school.

Provisional Admission of Transfer Students

Cal State L.A. may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses may rescind admission for any student who is found not to be eligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university any later than a student's registration for their second term of CSU enrollment.

Transcript and Test Score Requirements

First-time freshman applicants should not request high school transcripts to be sent to the University until the date of high school graduation is posted on their high school transcript, or unless requested by the University to do so. Transcripts must be sent directly from the high school to Cal State L.A.'s Office of Admissions and Recruitment. All transcripts become University property and will not be released or copied, except for students who request that their application be redirected to another CSU campus. For fall applicants graduating from high school in June, the final high school transcript with date of high school graduation posted must be received by July 15, or the term's specified transcript deadline date, to ensure enrollment and to prevent the offer of admissions from being cancelled. For applicants with a final calculated high school grade point average of less than 3.00, an SAT or ACT score is required which generally is included on the high school transcript.

Foreign High School Graduates

Applicants who are graduates of secondary schools in foreign countries will have their records assessed for academic preparation and equivalence to those of eligible California high school graduates. The SAT and/or ACT is not an admission requirement from these individuals, except when specifically requested to do so.

Applicants who have graduated from U.S. high schools abroad will be held to academic requirements as those who have graduated from high schools outside California. Please refer to the transcript and test score requirements as noted in the above paragraph.

Transfer Policies of CSU campuses

Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency recognized by the United States Department of Education is accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

California Community Colleges and other authorized certifying institutions can certify up to 39 semester (58.5 quarter) units of General Education-Breadth (GE-Breadth) or 37 semester (55.5 quarter) units of the Intersegmental General Education Transfer Curriculum (IGETC) for transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer.

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed at www.assist.org.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California community colleges, and other regionally accredited institutions. Established CSU and CCC articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution which does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90-semester (135-quarter) units may be transferred into the university from all sources.

Transfer Requirements

Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for first-time freshman admission. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

Lower Division Transfer Admission Requirements

Generally, applicants will qualify for CSU admission consideration as a lower-division transfer if they have a grade point average of at least 2.0 (C or better) in all transferable units attempted.

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying (see "Freshman Requirements" section); **or**
2. Were eligible as a freshman at the time of high school graduation except for missing college preparatory subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subject requirements with a 2.0 or better GPA.

Applicants who graduated from high school prior to 1988 should contact the admission office to inquire about alternative admission programs.

For admission, Cal State L.A. requires an official final transcript prior to a specified date to verify successful completion of English composition and college level mathematics if either or both courses are "in progress" or "planned" at the time of application. Refer to your letter of admission for additional information.

Lower-division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways:

1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations, e.g., SAT subject tests.

Please consult with the CSU campus admission office, to which you are applying for further information about alternative ways to satisfy the subject requirements. (Due to increased enrollment demands, many CSU campuses do not admit lower-division transfer applicants.)

Upper Division Transfer Admission Requirements

Generally, applicants will qualify for consideration for upper-division transfer admission if they meet all of the following requirements:

1. They have a grade point average of at least 2.0 (C or better) in all transferable units attempted;
2. They are in good standing at the last college or university attended; and
3. They have completed at least sixty (60) transferable semester (90 quarter) units of college level coursework with a grade point average of 2.0 or higher and a grade C or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, and quantitative reasoning, e.g. mathematics.

The 60 units must include at least 30 units of courses, which meet CSU general education requirement including all of the general education requirements in communication in the English language (both oral and written) and critical thinking and the requirement in mathematics/quantitative reasoning (usually 3 semester units) OR the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Associate Degrees for Transfer (AA-T or AS-T) established by the Student Transfer Achievement Reform (STAR) Act (SB 1440)

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student a clear transfer preparation and admission pathway to the CSU degree majors.

California Community College students who earn an associate degree for transfer (AA-T or AS-T) are guaranteed admission with junior standing to a CSU and given priority admission over other transfer applicants when applying to a local CSU campus, or non-impacted CSU program. AA-T or AS-T admission applicants are given priority consideration to an impacted campus/program or to campuses/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units.

For more information contact your Community College Transfer Center or review these resources:

<http://www.sb1440.org/>

<http://adegreewithaguarantee.com/>

Test Requirements

Scholastic Aptitude Test (SAT) and American College Test (ACT)

Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit are strongly encouraged to submit scores, unless exempt (see "Eligibility Index" on page 21), from either the ACT or the SAT of the College Board. Persons who apply to an impacted program may be required to submit test scores and should take the test no later than November or December. Test scores also are used for advising and placement purposes. Registration forms and dates for the SAT or ACT are available from school or college counselors or from a CSU campus testing office located in the Library, Rm. 2098, (323) 343-3160. Or students may write to or call:

The College Board (SAT)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200
(609) 771-7588

www.collegeboard.org

ACT Registration Unit
P.O. Box 414
Iowa City, Iowa 52240
(319) 337-1270
www.act.org

English Language Requirement

All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction must present a score of 500 or above on the Test of English as a Foreign Language (TOEFL). Some majors may require a score higher than 500. Some majors and some campuses may require a higher score. A few campuses may also use alternative methods of assessing English fluency: Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS), and the International Test of English Proficiency (ITEP).

Each campus will post the tests it accepts on its website and will notify students after they apply about the tests it accepts and when to submit scores.

Cal State L.A. minimum respective test standards for undergraduate applicants are:

	Internet	Paper
TOEFL		
Undergraduate	61	500
Graduate	80	550
IELTS	Not applicable	
PTE	44	

To obtain TOEFL registration materials, locations and test dates, write to:

Educational Testing Service
P. O. Box 6154
Princeton, New Jersey 08541-6151
www.toefl.org

You also may contact the U. S. embassy in your country for TOEFL information. Request that your TOEFL test results be sent directly to California State University, Los Angeles (institution code 4399).

Systemwide Placement Test Requirements

The California State University requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment.

These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms.

Students register for the EPT (www.csuenglishsuccess.org/ept) and/or ELM (www.csumathsuccess.org/elm_exam). Campus may establish deadlines by which new students must register for and/or take placement exams as a requirement for enrollment.

Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to the Cal State L.A. Testing Center, Library, Palmer Wing 2098, (323) 343-3160.

All nonexempt undergraduates must complete the EPT and ELM after admission and before first enrollment in courses at Cal State L.A.

English Placement Test (EPT)

The English Placement Test (EPT) is designed to assess the level of reading and writing skills of students entering the California State University. The CSU EPT must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 147 or above on the EPT will be placed in college-level composition classes.

Exemptions from the EPT are granted only to those who present proof of one of the following:

- A score of "Exempt" or "Ready for college-level English courses" on the CSU Early Assessment Program (EAP) taken along with the English Language Arts California Standard Test in grade 11
- A score of "Conditionally ready for college-level English courses" or "Conditional" on the CSU Early Assessment Program (EAP) taken on grade 11, provided successful completion of the Expository Reading and Writing Course (ERWC), AP English, 1B English or an English course approved for extra honors weight on the University of California "a-g" Doorways course list.
- A score of 500 or above on the critical reading section of the College Board SAT Reasoning Test
- A score of 22 or above on the American College Testing (ACT) English Test
- A score of 3 or above on either the Language and Composition or Composition and Literature examination of the College Board Scholastic Advanced Placement Program
- Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or better

Verification of successful completion of the appropriate course may be required either before registration or by the document deadline date specified at the time of admission. Students who do not submit the required documentation by the time specified are subject to having their admission rescinded and, if enrolled, being dropped from all courses.

The results of the EPT will not affect admission eligibility, but will be used to identify students who need special help in reading and writing to complete college-level work. Information bulletins for the EPT may be obtained at the Cal State L.A. Testing Center, Library, Palmer Wing 2098, (323) 343-3160.

Entry Level Mathematics (ELM) Placement Examination

The Entry Level Mathematics (ELM) Examination is designed to assess and measure the level of mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (Algebra I and II, and Geometry) of students entering the California State University (CSU). The CSU ELM must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 50 or above on the ELM will be placed in college-level mathematics classes.

Exemptions from the ELM are granted only to those who present proof of one of the following:

- A score of "Exempt" or "Ready for college-level English courses" on the CSU Early Assessment Program (EAP) taken along with the English Language Arts California Standard Test in grade 11
- A score of "Conditionally ready for college-level English courses" or "Conditional" on the CSU Early Assessment Program (EAP) taken on grade 11, provided successful completion of the Expository Reading and Writing Course (ERWC), AP English, 1B English or an English course approved for extra honors weight on the University of California "a-g" Doorways course list.
- A score of 550 or above on the mathematics section of the College Board SAT Reasoning Test
- A score of 550 or above on a College Board SAT Subject Test in Mathematics (level 1 or level 2)
- A score of 23 or above on the American College Testing (ACT) Mathematics Test

- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC exam
- A score of 3 or above on the College Board Advanced Placement Statistics examination
- Completion and transfer to CSU of a college course that satisfies the requirement in Quantitative Reasoning, provided such a course was completed with a grade of C or better

Verification of successful completion of the appropriate course may be required either before registration or by the document deadline date specified at the time of admission. Students who do not submit the required documentation by the time specified are subject to having their admission rescinded and, if enrolled, being dropped from all courses.

Students who are required to take this examination should do so as soon as possible after admission and before they enroll in courses. The results of this examination do not affect admission, but will be used to identify students who need special help in mathematics to do college-level work.

Students who cannot demonstrate basic competence on the examination are required to take steps to overcome deficiencies the first term of their enrollment. Any course work undertaken primarily to acquire the required competence shall not be applicable to the baccalaureate.

Information bulletins for the EPT and ELM examinations may be obtained from the Cal State L.A. Testing Center, Library, Palmer Wing 2098, (323) 343-3160.

**Beginning in May 1998, SAT II: Writing Test scores increased about 10 to 20 points. The adjustment was made to make Writing Test scores more comparable to scores on other SAT II subject tests. Although scores will be higher, their relative rank compared to scores for tests taken before May 1998 remains the same.*

Credit for Nontraditional Learning Experiences

Credit for certain nontraditional learning experiences may be used in determining eligibility and credit allowances of undergraduate applicants. These nontraditional credit allowances are listed and described below. A more detailed analysis of each category appears later in this chapter under Evaluation of Transfer Credit.

Categories and Credit Allowances

- Baccalaureate-level course credit certified by the Defense Activities in Nontraditional Education Support (DANTES) yields a maximum of 36-quarter units.
- Advanced Placement examinations of the CEEB with scores of 3, 4, or 5 yield 9-quarter units for each examination.
- For credit allowance for standardized external examinations, including CLEP, Advanced Placement, the CSU English Equivalency Exam, the American Chemical Society Cooperative Examination, see the explanations later in this chapter.
- For basic training military service, 9 quarter units of lower division elective credit are awarded for 1 year or longer of active duty with an honorable discharge, and 4½ quarter units for 6 months to one year with an honorable discharge.
- Civilian and military courses and schools recommended for credit by the American Council on Education's Commission on Educational Credit and Credentials yield a maximum of 12 quarter units.

International (Foreign) Student Admission Requirements

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

The California State University uses separate requirements and application filing dates in the admission of foreign students. Verification of English proficiency (see the section about the English Language requirement for undergraduate applicants), financial resources, and academic performance are all important considerations for admissions. Academic records from foreign institutions must be on file at least 60 days before registration for the first term and, if not in English, must be accompanied by certified English translations.

Foreign applicants and all others who are not permanent U.S. residents will be admitted to Cal State L.A. only if they meet one of the following sets of requirements:

- Completion of two years (90 quarter units or equivalent) of acceptable college work with a minimum 2.4 grade point average as evaluated by the University (A=4.0), an acceptable course in English composition, speech, critical thinking and mathematics with a minimum grade of C in each course, and a minimum 500 paper-based, 173 computer-based, 61 internet-based score on the Test of English as a Foreign Language (TOEFL); **or**
- Graduation from a foreign high school where the language of instruction was not exclusively English (with a minimum 3.0 grade point average as evaluated by the University), a minimum 2.4 grade point average in any college work attempted (as evaluated by the University), and a minimum 500 paper-based, 173 computer-based, or 61 internet-based TOEFL score (refer to the section about the TOEFL requirement). The academic eligibility requirement is the same as for graduates of high schools outside California, although submission of ACT or SAT scores is not necessary, unless specifically requested by the University. Foreign high school equivalencies are determined by the University; **or**
- Graduation from a foreign high school where the language of instruction was not exclusively English (with a minimum 3.0 grade point average as evaluated by the University) and a minimum 500 paper-based, 173 computer-based, or 61 internet-based TOEFL score (refer to the section about the TOEFL requirement). The academic eligibility requirement is the same as for graduates of high schools outside California, although submission of ACT or SAT scores is not necessary, unless specifically requested by the University. The University determines foreign high school equivalencies.

Undergraduate applicants who have attended full time, for at least three years, either an accredited U.S. college or university or a foreign high school, college, or university where the principle language of instruction was English are exempted from the TOEFL requirement.

The Bureau of Citizenship and Immigration Services (BCIS) requires that F-1 visa undergraduate students carry a minimum study load of 12 quarter units. Visa students must have advance proof of adequate financial resources, be in good health, and comply with all Cal State L.A. and BCIS regulations. Consult International Programs and Services, (323) 343-3170, for information about visas, housing, and related matters. International students may apply online at www.csumentor.edu.

General Guidelines for Foreign Records

Applicants with foreign academic work are required to submit official copies of academic records, along with a certified English translation. Academic records should include: secondary school records; yearly records from each college or university attended that indicate the number of hours per semester or year devoted to each course and the grades received; and official documents that confirm the awarding of the degree that include the title and date.

All official documents submitted become the property of the University. The University will determine the acceptability of any foreign work.

Insurance Requirement

Effective August 1, 1995, as a condition of receiving an I-20 or DS2019 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment in The California State University. Such insurance must be in amounts as specified by The Bureau of Educational and Cultural Affairs, U.S. Department of State and NAFSA, Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information may be obtained from the College of Extended Studies and International Programs at (323) 343-4900.

Second Baccalaureate Applicants

Students who have earned a baccalaureate from an accredited institution may earn a second baccalaureate at Cal State L.A. They are considered postbaccalaureate applicants and must meet the admission requirements for graduate and postbaccalaureate students (see the section later in this chapter). For more information, please contact the College of Extended Studies and International Programs at (323) 343-4900.

Special Admission Categories

Early Start Program

Entering resident freshmen who are not proficient in math or English will need to start the remediation process before their first regular term.

The goals of Early Start Program are to:

- Better prepare students in math and English, before the fall semester of freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve students' chances of successful completion of a college degree.

Newly admitted freshman students who are required to complete Early Start will be notified of the requirement and options for completing the program as part of campus communications to newly admitted students.

Adult Students

As an alternative to regular admission criteria, applicants who are 25 years of age or older may be considered for admission as adult students if they meet all of the following conditions:

1. Possess a high school diploma (or have established equivalence through either the General Educational Development or California High School Proficiency Examinations).
2. Has not been enrolled in college as full-time students for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a C (2.0) average or better in all college work attempted.

Consideration is based on a judgment about whether the applicant is as likely to succeed as a regularly admitted freshmen or transfer students and will include an assessment of basic English language and mathematical computation. Questions should be directed in writing to the Director of University Admissions.

Educational Opportunity Program (EOP)

The Educational Opportunity Program (EOP) assists undergraduate students who are disadvantaged because of their economic or educational background. EOP serves California residents who do not meet regular admission criteria, as well as those who qualify for regular admission, if they have a history of low income and need academic and financial assistance.

In addition to special admission procedures, the program provides specialized orientation, financial assistance, advisement by professional and peer counselors (usually upper division students), tutoring, and access to specialized courses. Because not all EOP applicants can be guaranteed admission, alternative opportunities should be investigated. Applications and information may be obtained from the EOP Office, Student Affairs 215, (323) 343-4EOP.

Early Entrance Program (EEP)

Cal State L.A.'s Early Entrance Program (EEP) serves highly gifted students who need the academic challenges of a university environment to develop intellectually but who are chronologically younger than traditional undergraduates and have not yet graduated from high school. The EEP provides the opportunity for these highly gifted students to begin their college studies early at CSULA as full-time college students and offers them support, guidance, counseling, and a social environment necessary to prepare them for success at the university level. Consult the description of the Early Entrance Program under University Programs for complete details about the admission requirements for this program. For further admission information please contact the EEP at (323) 343-2287, fax (323) 343-5574 or visit the EEP Website at

www.calstatela.edu/eep

High School Students

Provisional Admission of First-time Freshmen

Cal State L.A. may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned coursework for the senior year. The campus will monitor the final terms of study to ensure that admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all course work has been satisfactorily completed. Official high school transcripts must be received prior to deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. A campus may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any university registration for students who are found not to be eligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the university verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index (Appendix A), have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program or campus, have met all supplementary criteria.

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a specific program and does not constitute the right to continued enrollment.

High School Nongraduates

Applicants older than 18 years of age who have not graduated from high school are considered for admission only when their preparation in all other ways is such that Cal State L.A. believes their promise of academic success is equivalent to that of eligible California high school graduates. These applicants are required to submit General Educational Development (GED) test scores to establish high school graduation equivalence and an official high school transcript that shows all work completed to the last date of attendance. Scores on the ACT or SAT also are required.

Veterans

Under special circumstances and by authorized action, veterans of U.S. military service who are California residents may be admitted as either first-time freshmen or transfers even though such applicants are not otherwise eligible.

Applicants Not Regularly Eligible

Applicants who are not admissible under one of the above provisions should enroll in extension courses, a community college, or another appropriate institution to meet eligibility requirements. Only under the most unusual circumstances and by authorized action will such applicants be admitted to Cal State L.A. without additional academic preparation as described above.

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application. The \$55 nonrefundable application fee should be in the form of a check or money order payable to "The California State University" or by credit card if submitting payment online via CSU Mentor, and may not be transferred or used to apply to another term. An alternate major may be indicated on the application. The applications of persons denied admission to an impacted and/or closed campus may be re-routed to another major or campus at no cost, but only if the applicant is CSU eligible.

Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the University to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

Application Filing Periods

(Not all campuses/programs are open for admission to every term.)

Terms in 2014-2015	Applications First Accepted	Initial Filing Period
Summer Term 2014	Feb. 1, 2014	Feb. 1-28, 2014
Fall Term 2014	Oct. 1, 2013	Oct.1 - Nov.30 2013
Winter Term 2015	June 1, 2014	June1-30, 2014
Spring Term 2015	Aug. 1, 2014	Aug. 1-31 2014
Terms in 2015-2016	Applications First Accepted	Initial Filing Period
Summer Term 2015	Feb. 1, 2015	Feb. 1-28, 2015
Fall Term 2015	Oct. 1, 2014	Oct.1 - Nov.30 2014
Winter Term 2016	June 1, 2015	June1-30, 2015

Spring Term 2016	Aug. 1, 2015	Aug. 1-31, 2015
Terms in 2016-2017	Applications First Accepted	Initial Filing Period
Summer Term 2016	Feb. 1, 2016	Feb. 1-28, 2016
Fall Term 2016	Oct. 1, 2015	Oct. 1 - Nov. 30 2015
Winter Term 2017	June 1, 2016	June 1-30, 2016
Spring Term 2017	Aug. 1, 2016	Aug. 1-31, 2016

Filing Period Duration

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the campus admission office for current information. Similar information is conveniently available at http://www.csumentor.edu/filing_status/Default.asp.

International (Visa) Applicants

Application filing periods for international (visa) applicants differ from those for domestic (non-visa) applicants because of additional time required to evaluate records and prepare the necessary documents for the Bureau of Citizenship and Immigration Services (BCIS). The filing periods are established as follows:

Term	Application Filing Period
Fall Term	October 1–March 1
Winter Term	June 1–September 1
Spring Term	August 1–October 1
Summer Term	February 1–March 15

The Director of the Office of Admissions and Recruitment may waive this advance application requirement if circumstances warrant. In addition to the academic requirements outlined earlier in this chapter, international students must have competence in the English language, financial resources adequate to provide for all expenses during their period of study at Cal State L.A., and must be in good health.

Application Acknowledgment

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, campus requirements for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

Transcript and Admission Test Score Requirements

Undergraduate transfer students are required to comply with the following transcript and test score requirements as part of the application procedures for admission. Classifications (class level) of applicants apply as of the date of intended enrollment.

Applicants with fewer than 90 units completed

Transcripts: One from high school of graduation; one from each college attended. Test Score: ACT or SAT.

Applicants with 90 or more quarter units completed

Transcripts: One from each college attended; graduate and second baccalaureate applicants, two from each college attended.

Returning Students

Transcripts: One from each college attended since last enrollment at Cal State L.A. unless otherwise notified by the Office of Admissions and Recruitment. One from each college attended before Cal State L.A. if student last attended Cal State L.A. more than one year ago.

Engineering Majors

Transcripts: One sent directly to the Office of Admissions and Recruitment; one to College of Engineering, Computer Science and Technology.

Nursing Majors

Transcripts: One sent directly to the Office of Admissions and Recruitment; one to School of Nursing. CAUTION: Transcripts must be sent directly from each college and school of nursing attended.

Transfer applicants must submit transcripts to the University from all colleges and universities previously attended, even if no course work was completed. If transferring with fewer than 60 transferable semester (90 quarter) units completed, the high school transcript and official test scores (for applicants with a final calculated high school grade point average of less than 3.00) must also be sent. Transcripts from within the U.S. must be sent once you are admitted and must be received by the Document Deadline indicated in the email offering admission to avoid registration delays and to prevent the offer of admission from being canceled, and if enrolled, being dropped from all courses. Documents from outside the U.S. must be sent prior to an offer of admission and received at least 60 days before the first day of the term to which the applicant applies.

The Document Deadlines for fall and spring quarters are July 15 and February 15, respectively. The Document Deadline for winter and summer quarters are February 1 and July 1, respectively. These are subject to change. Students should refer to the appropriate terms' deadlines for more information. All transcripts become University property and will not be released or copied, except for students who request that their application be redirected to another CSU campus. Transcripts are retained one year for applicants who do not enroll in the term of application or who send transcripts but do not file and application.

Official transcripts are documents received in an envelope sealed by the issuing institution. For initial advisement purposes, students are recommended to bring their own set of transcripts.

Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus which they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus' specified supplementary admission criteria if applying to an impacted program or campus.

The CSU will announce during the fall filing period those campuses or programs that are impacted. Detailed information on campus and programs impaction will be available at the following websites:

www.csumentor.edu.

<http://www.calstate.edu/SAS/impactioninfo.shtml>

www.calstate.edu/sas/impaction-campus-info.shtml

Campuses will communicate its supplementary admission criteria for all impacted programs to high schools and community colleges in their service area and will disseminate this information to the public through appropriate media. This information will also be published at the CSU campus individual website and made available online at:

<http://www.calstate.edu/>.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admission consideration.

Supplementary Admission Criteria

Each campus with impacted programs or admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on verification of AA-T or AS-T degree, the overall transfer grade point average (GPA), completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible, but no later than November or December of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants are made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at: www.calstate.edu/impactioninfo.shtml.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the campus Admissions Office about specific policies governing hardship admission.

Reapplication After Failure to Enroll

Applicants who fail to register for the term for which they have been accepted will have their admission canceled. Those who desire admission to any future term must file another application (with fee) within the stated application period and must meet admission requirements in effect at the time of the new application.

All transcripts on file for applicants who are admitted but do not attend are kept one year and may be used for admission during that period. However, transcripts of any additional work completed since the original transcripts were filed must be requested by the applicant from the college(s) attended as part of the new application procedure.

Readmission

Students who are absent without prior approval for any three of the four consecutive quarters before the quarter they wish to return must apply for readmission. The \$55 application fee is charged except for students who were enrolled during any of the three quarters immediately preceding the quarter of desired readmission. An application with fee also must be filed by any student who enrolls at another institution during an absence, with the following exceptions: a summer session or extension program; dual registration, with prior approval; or concurrent or visitor enrollment at another CSU campus. Students who were disqualified from Cal State L.A. following the last quarter of attendance must file an application for admission as returning disqualified students. For details see Readmission of Disqualified Students below.

Returning Veterans (Military, Alternative Service)

Cal State L.A. students who enter active U.S. military service or approved alternative service are eligible for continuing student status following active service. Time served in active military or approved alternative service, including the entire quarter in which the student entered the service and the entire quarter during which the discharge occurred, will not be counted as a break in attendance in determining continuing student status.

Readmission of Disqualified Students

Readmission after disqualification is not automatic. Disqualified students will not be considered for readmission until at least two quarters have elapsed. Normally, students will be eligible for readmission when they have satisfied conditions and requirements established during an exit interview. Basic readmission regulations require the following: senior level students (135+ units completed) are eligible to be readmitted if their Cal State L.A. and cumulative grade point average is greater than 1.95; junior level students (90-134 units completed) are eligible to be readmitted if their Cal State L.A. and cumulative grade point average is greater than 1.85; sophomore level students (45-89 units completed) are eligible to be readmitted if their Cal State L.A. and cumulative grade point average is greater than 1.70; freshman level students (0-44 units completed) are eligible to be readmitted if their Cal State L.A. and cumulative grade point average is greater than 1.50. Units earned elsewhere while under disqualification can be used to reduce the total grade point deficiency, but not the Cal State L.A. deficiency (which may be corrected through Open University enrollment in Extended Studies).

Before the appropriate deadline, disqualified students must file an application for readmission as returning disqualified students. In addition, they must seek readmission through a petition to the department or division and college from which they were disqualified. The University Academic Advisement Center will rule on petitions for readmission of disqualified students with undeclared majors. Petitions for Readmission from Disqualification may be obtained from department or division offices and applications for readmission are available online at www.csumentor.edu. Official transcripts of all transfer work attempted since disqualification must be furnished.

Readmission Appeals Procedure

Students who have not met requirements established at the time of the exit interview will be ineligible for readmission and will be so notified by the University Admissions Office. Students may appeal this decision by submitting a petition to the dean of their college or to the University Academic Advisement Center if they have not declared a major.

Evaluation of Transfer Credit

Undergraduate transfer students' previous college work is evaluated in terms of its relevance to Cal State L.A. course offerings and degree requirements. The transfer credit evaluation is prepared for all new transfer and readmitted students by their second quarter of attendance. This evaluation identifies general education and graduation course requirements met by transfer courses and transfer credit accepted in satisfaction of unit requirements. For readmitted students, it also identifies general education and major requirements met by Cal State L.A. courses. The policies of the transfer institution(s) are followed when grade point averages of transfer course work are computed. If such policies cannot be determined, Cal State L.A. policies are followed. Credit for selected vocational/technical courses not generally accepted for transfer credit may be recognized after admission if approved by the Cal State L.A. academic department or division responsible for the related degree program.

Quarter Units/Quarter System

Credits at Cal State L.A. are expressed in quarter units; one quarter unit normally represents no fewer than one hour of class work and two or more hours of outside study per week for one quarter. One and one-half quarter units are equivalent to one semester unit, and one quarter unit is equivalent to two-thirds of a semester unit of credit.

Credit for Community College Course Work

A maximum of 105-quarter units (70 semester units) earned in a Community College will be allowed towards the units required for graduation. Neither upper division credit nor credit for professional education courses is allowed for community college work.

Credit for Extension, Correspondence Courses

The maximum amount of credit for correspondence and extension courses that may be applied toward the baccalaureate is 36 quarter (24 semester) units. Extension and correspondence course credit does not satisfy Cal State L.A. residence requirements. Students should consult their major department or division adviser before they enroll in extension or correspondence courses to ensure that courses elected will meet both unit and content requirements for the degree.

No undergraduate degree credit will be allowed for University of California extension courses in the X300 or X400 series taken after Spring Quarter 1968, except as specifically approved by the individual department or division concerned.

Credit for Supplementary Transfer Work

To request evaluation of credit toward a bachelor's degree for work taken at other colleges or universities subsequent to matriculation at Cal State L.A., students must have official transcripts forwarded to the Admissions Office.

Credit for Non-collegiate Instruction

Cal State L.A. grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree if such credit has been recommended by the Commission on Educational Credit and Credentials of the American Council on recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Credit for Military Service

Students are granted nine quarter units of lower division elective credit, upon admission, for one year or more of regular active duty in a U.S. military service with an Honorable Discharge, including completion of basic or recruit training. For six months to one full year of military service, including completion of a six-month reserve training program with basic recruit training, and an Honorable Discharge, 4.5-quarter units of lower division elective credit are granted upon admission. Additional credit to a maximum of 12 quarter units may be granted for completion of certain service school certificate programs, based on recommendations of the Commission on Educational Credit and Credentials of the American Council on Education.

Students should submit a copy of their military separation, DD214 or equivalent record, at the time of application for admission. Information on how to request an evaluation of military service school credit can be obtained at www.acenet.edu, the American Council on Education home page. Military service credit is not applied toward the residence requirement.

Credit Certified by the Defense Activities in Nontraditional Education Support (DANTES)

A maximum of 36 quarter units of baccalaureate course credit may be earned for course work certified by the Defense Activities in Nontraditional Education Support (DANTES). Students must have an official DANTES transcript forwarded to the Office of University Admissions.

Credit for Peace Corps Training

Peace Corps volunteers who completed their training at Cal State L.A. may earn a maximum of 1½ quarter units for each week of the training program. The number of units and the area in which the units are given varies with each project. Grades are recorded as Credit (CR).

Credit for work taken at another institution while in Peace Corps training will be granted by Cal State L.A., but only as it appears on an official transcript from another college or university. The credit will be validated when the volunteer becomes a student at Cal State L.A. or another institution of higher education.

Evaluation of Optional Undergraduate Tests and Examinations

Cal State L.A. grants undergraduate degree credit to students who pass examinations that have been approved for credit systemwide. These include Advanced Placement Examinations, the CSU English Equivalency Examination, and some CLEP examinations, as outlined below. The total credit earned in external examinations that may be applied to a baccalaureate shall not exceed 45-quarter units, exclusive of credit for Advanced Placement examinations.

Advanced Placement Credit

Cal State L.A. grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of 3 or better are granted 9 quarter units (6 semester units) of elective credit for each examination. The appropriate academic department/division/school determines acceptance of Advanced Placement units for purposes other than electives. Advanced Placement credit will be awarded for students who have had their College Board Grade Report for the Advanced Placement exam sent to Cal State L.A. and have completed one quarter of attendance. Credit is not awarded for any examinations that overlap other examinations or equivalent college courses. Where partial overlap exists, the amount of credit awarded will be appropriately prorated.

Information about Advanced Placement examinations is available at the applicant's high school. Supporting test materials are sent to the college or university indicated by the student when the examinations are taken.

No credit for any examination will be forwarded to a student who has taken the examination previously within the past year; earned equivalent credit through regular course work, credit by another examination, or other instructional processes, such as correspondence study or military training; or earned credit previously in a course or by an examination more advanced than the level represented by the examination in question.

Following is a list of AP examinations for which the University grants credit:

College Board Advanced Placement Tests	Passing Score	Total Quarter unit Earned	Units toward GE	GE Breadth Area
ART History	3	9.0	4.0	Area C2
STUDIO ART -2D	3	9.0	none	n/a
STUDIO ART -3D	3	9.0	none	n/a
STUDIO ART -Drawing	3	9.0	4.0	Area C2
Biology	3	9.0	4.0	Area B1
Calculus AB	3	4.5	4.0	Area A4
Calculus BC	3	9.0	4.0	Area A4
Chemistry	3	9.0	5.0	Area B2
Chinese Language & Culture	3	9.0	4.0	Area C4
Comparative Government & Politics	3	4.5	4.0	Area D
Computer Science A	3	9.0	none	n/a
Computer Science AB	3	9.0	none	n/a
Economics: Micro-economics	3	9.0	none	Area D
Economics: Macro-economics	3	9.0	none	Area D
English Language	3	9.0	4.0	Area A1
English Literature	3	9.0	8.0	Area A1 & Area C1
Environ-mental Science	3	9.0	none	n/a
European History	3	9.0	4.0	Area D
French Language	3,4	9.0	4.0	Area C4
French Literature	3	9.0	4.0	Area C4
German Language	3	9.0	4.0	Area C4
Italian Language & Culture	3	9.0	4.0	Area C4
Japanese Language & Culture	3	9.0	4.0	Area C4
Latin Literature	3	9.0	4.0	Area C4
Latin: Virgil	3	9.0	4.0	Area C4
Music Theory	3	9.0	4.0	Area C2
Physics B	3	9.0	4.0	Area B2

Physics C - Electricity & Magnetism	3	9.0	4.0	Area B2
Physics C -Mechanics	3	9.0	4.0	Area B2
Psychology	3	4.5	4.0	Area D
Spanish Language	3	9.0	4.0	Area C4
Spanish Literature	3	9.0	4.0	Area C1
Statistics	3	4.5	4.0	Area A4
US Government & Politics	3	4.5	2.0	American Institutions
U.S. History	3	9.0	4.0	
World History	3	9.0	4.0	Area D

College Level Examination Program (CLEP)

Credit is awarded for successful performance in certain examinations of the College Level Examination Program.

Following is a list of CLEP examinations for which the University grants credit:

CLEP Examination	Passing Score	Total Quarter Units Earned	Units Toward GE	GE Breadth Area
CLEP American Government	50	4.5	4.5	D
CLEP American Literature	50	4.5	4.5	C1
CLEP Analyzing and Interpreting Literature	50	4.5	4.5	C1
CLEP Biology	50	4.5	4.5	B1
CLEP Calculus	50	4.5	4.5	A4
CLEP Chemistry	50	4.5	4.5	B2
CLEP College Algebra	50	4.5	4.5	A4
CLEP College Algebra: Trigonometry	50	4.5	4.5	A4
CLEP College Mathematics	50	4.5	4.5	N/A
English Composition (no essay)	50	0	0	N/A
English Composition with Essay	50	0	0	N/A
English Literature	50	4.5	4.5	C4
CLEP Financial Accounting	50	4.5	0	N/A
CLEP French7 Level I	50	9	0	N/A
CLEP French7 Level II	59	18	4.5	C4
Freshman College Composition	50	0	0	N/A
German7 Level I	50	9	0	N/A
German7 Level II	60	18	4.5	C4
History, United States I	50	4.5	4.5	D+US-1
CLEP History, United States II	50	4.5	4.5	D+US-1
CLEP Human Growth and Development	50	4.5	4.5	E
CLEP Humanities	50	4.5	4.5	C5
CLEP Information Systems and Computer Applications	50	4.5	0	N/A
CLEP Introduction to Educational Psychology	50	4.5	0	N/A
CLEP Introductory Business Law	50	4.5	0	N/A
CLEP Introductory Psychology	50	4.5	4.5	D
CLEP Introductory Sociology	50	4.5	4.5	D
CLEP Natural Sciences	50	4.5	4.5	B2
CLEP Pre-Calculus	50	4.5	4.5	A4

CLEP Principles of Accounting	50	4.5	0	N/A
CLEP Principles of Macroeconomics	50	4.5	4.5	D
CLEP Principles of Management	50	4.5	0	N/A
CLEP Principles of Marketing	50	4.5	0	N/A
CLEP Principles of Microeconomics	50	4.5	4.5	D
CLEP Social Sciences and History	50	0	0	N/A
CLEP Spanish7 Level I	50	9	0	N/A
CLEP Spanish7 Level II	63	18	4.5	C4
CLEP Trigonometry	50	4.5	4.5	A4
CLEP Western Civilization I	50	4.5	4.5	C5 or D
CLEP Western Civilization II	50	4.5	4.5	D

Following is a list of IB examinations for which the University grants credit:

International Baccalaureate (IB) Examination	Passing Score	Total Quarter Units Earned	Units Toward GE	GE Breadth Area
IB Biology HL	5	9	4.5	B2
IB Chemistry HL	5	9	4.5	B2
IB Economics HL	5	9	4.5	D
IB Geography HL	5	9	4.5	D
IB History (any region) HL	5	9	4.5	D
IB Language A1 (any language) HL	4	9	4.5	C4
IB Language A2 (any language) HL	4	9	4.5	C4
IB Language B (any language) HL7	4	9	0	N/A
IB Mathematics HL	4	9	4.5	A4
IB Physics HL	5	9	4.5	B2
IB Psychology HL	5	4.5	4.5	D
IB Theatre HL	4	9	4.5	C1

Transfer of Credit Earned by Examination

Credit earned by examination at another accredited institution is accepted upon transfer if the units have been accepted by the previous institution as equivalent to specific courses and are not in violation of any other regulation.

College Level Examination Program (CLEP)

Credit is awarded for successful performance in certain examinations of the College Level Examination Program. Four quarter units may be earned in any of the following examinations, with passing scores as indicated.

Name of Examination	Minimum Passing Score
College Algebra-Trigonometry	49
Calculus with Elementary Functions	51
General Chemistry	48
CEEB Advanced Placement Program Examinations	3, 4, 5

Credit for one examination in mathematics may be applied to the mathematics requirement of the general education program. Credit for additional examinations is allocated to electives; acceptance for major, minor, or prerequisite use is granted on approval of the appropriate academic department or division.

American Chemical Society Examination

Students may earn four quarter units of credit by achieving a score at the 50th or higher percentile on the General Chemistry examination offered as part of the American Chemical Society Cooperative Examination Program.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted and must also be published on the campus website. Appeal information may be found at <http://www.calstatela.edu/univ/admiss/appeal/>.

Graduate and Post-Baccalaureate Admission Requirements

Admission Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or where approved, may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

- General Requirements — The minimum requirements for admission to graduate and post baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.
- Specifically, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.
- Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:
 - Graduate Classified – To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
 - Graduate Conditionally Classified – Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or
 - Post-Baccalaureate Classified, e.g. admission to an education credential program – Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
 - Post-Baccalaureate Unclassified – To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program (Most CSU campuses do not offer admission to unclassified post-baccalaureate students).

(These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website www.calstate.edu and the CSU admissions portal www.csumentor.edu are good sources of the most up-to-date information.)

Admission to a California State University campus with conditionally classified standing does not constitute full admission to graduate degree curricula. Also, individual colleges and departments or divisions may have additional requirements which students must fulfill before they may be fully accepted into degree, credential, and certificate programs at Cal State L.A.

Most applicants are initially admitted to Cal State L.A. in conditionally classified standing. Those who meet all requirements for any other category may achieve such standing before their first quarter of enrollment. Applicants not regularly admissible may petition for admission by special action as described later in this chapter.

Additional general procedures and regulations that apply to all applicants, graduate and undergraduate, are described earlier in this chapter.

Special Action Admissions

In unusual circumstances, a campus may make exceptions to admission criteria and grant admission by special action. For special action admission, applicants who were in good standing at the last college attended, but who do not meet the mandated admission requirements may petition for admission by special action if acceptable alternative evidence exists that they possess sufficient academic, professional, and other potential pertinent to their proposed graduate objective. Special action admission may be granted by the appropriate college graduate dean upon recommendation of both the proposed major department or division and college graduate studies committee for any of the following three reasons:

1. Applicants Who Lack Minimum Required Grade Point Average

Students admitted by special action to pursue a master's degree program will be admitted to conditionally classified graduate status and must complete specific prerequisites and a minimum of 14 units of qualifying courses specified by the major department or division and college graduate dean with a minimum B (3.0 on a scale in which A = 4.0) grade point average, as specified under Requirements for Classified Graduate Standing later in this chapter. Students admitted to pursue a nondegree program (e.g., credential, certificate) must complete special requirements as designated by the major department or division and college graduate dean.

2. Graduates of Unaccredited Institutions

A degree from an unaccredited college is not recognized for admission in graduate standing. Graduates of such institutions may be admitted in undergraduate standing if course work completed is deemed acceptable and meets undergraduate admission requirements, and may be granted postbaccalaureate or graduate standing upon satisfaction of the following conditions:

- Meet the minimum University, college, and department or division requirements for admission to classified graduate standing in a degree program.
- Complete a minimum of four upper division courses (at least 14 quarter units), specified in advance by the proposed major department or division, with a grade point average of at least B (3.0). These courses may not be 500 level. Upon recommendation of the department/division/school and the college graduate dean, 400-level qualifying courses may be applied to the master's degree program.
- Receive the written recommendation of the department or division in which the degree is sought and of the appropriate college graduate dean.
- An applicant with a bachelor's degree from an unaccredited institution and a master's degree from an accredited institution may be admitted as a regular postbaccalaureate or graduate student, assuming that all other requirements have been met and that appropriate approvals have occurred.

3. Graduates of Specialized or Professional Schools

Graduates of specialized or professional schools that are professionally accredited are admitted in conditionally classified graduate status. They may be granted classified graduate standing by satisfying the following conditions:

- Meet the minimum University, college, and department or division requirements for admission to classified graduate standing in a degree program.
- Complete a minimum of four upper division qualifying courses (at least 14 quarter units), specified in advance by the proposed major department or division, with a grade point average of at least B (3.0). After they have completed their faculty-approved list of qualifying courses, students may not add any additional courses, nor may they repeat any of the qualifying courses, to raise their grade point average.
- Receive the written recommendation of the department or division in which the degree is sought and of the appropriate College graduate dean.

International (Foreign) Student Admission Requirements

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of "foreign students." Verification of English proficiency (see the section on TOEFL Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file for winter by August 1 and for spring by October 12, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those majors or programs with limited openings.

For admission in postbaccalaureate or graduate standing, foreign applicants must fulfill the following minimum requirements:

- Have completed a four-year college course of study and hold an acceptable baccalaureate, or its equivalent, from an accredited institution.
- Have a minimum 2.5 grade point average (A=4.0) in the last 90 attempted quarter units equal to that required for admission to classified graduate standing. (The entire quarter

or semester in which the 90 quarter [60 semester] units began will be used in this calculation.)

- Have approval of the academic department or division that offers the desired degree program.

International students should contact International Programs and Services for information about housing, financial assistance, and related matters.

Graduate and Postbaccalaureate Applications Procedures

All graduate and postbaccalaureate applicants (e.g., Ed.D., joint Ph.D. applicants, master's degree applicants, those seeking educational credentials or certificates, and where permitted, holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and postbaccalaureate admission materials at www.csumentor.edu. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of www.csumentor.edu are expected unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available on the World Wide Web at <http://www.csumentor.edu>.

The CSU uses separate requirements and application filing dates in the admission of international (visa) students. For these purposes, international (visa) students are residents of a country other than the United States or who hold visas as students, exchange visitors, or other nonimmigrant classifications.

Some academic departments/divisions require applications to their respective graduate programs in addition to the University admission application and may have earlier deadlines than the University admission application deadline. Applicants should contact individual departments/divisions for further information or refer to individual programs later in this catalog.

Students accepted at Cal State L.A. for postbaccalaureate or graduate study must enroll in the term for which application was made. Applicants who do not register for the term for which they have been accepted will have their admission canceled; see "Reapplication After Failure to Enroll" earlier in this chapter. The application fee may not be transferred or used to apply to another term.

Application Filing Periods

(Not all campuses/programs are open for admission to every term.)

Terms in 2014-2015	Applications First Accepted	Initial Filing Period
Summer Term 2014	Feb. 1, 2014	Feb. 1-28, 2014
<i>(Some campuses do not admit students to Summer term.)</i>		
Fall Term 2014	Oct. 1, 2013	Oct. 1 - Nov. 30 2013
Winter Term 2015	June 1, 2014	June 1-30, 2014
Spring Term 2015	Aug. 1, 2014	Aug. 1-31 2014
Terms in 2015-2016	Applications First Accepted	Initial Filing Period
Summer Term 2015	Feb. 1, 2015	Feb. 1-28, 2015
Fall Term 2015	Oct. 1, 2014	Oct. 1 - Nov. 30 2014
Winter Term 2016	June 1, 2015	June 1-30, 2015
Spring Term 2016	Aug. 1, 2015	Aug. 1-31, 2015
Terms in 2016-2017	Applications First Accepted	Initial Filing Period
Summer Term 2016	Feb. 1, 2016	Feb. 1-28, 2016
Fall Term 2016	Oct. 1, 2015	Oct. 1 - Nov. 30 2015
Winter Term 2017	June 1, 2016	June 1-30, 2016
Spring Term 2017	Aug. 1, 2016	Aug. 1-31, 2016

Filing Period Duration

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the campus admission office for current information. Similar information is conveniently available at http://www.csumentor.edu/filing_status/Default.asp.

Application filing periods for International (Visa) Applicants

Application filing periods for international (visa) applicants differ from those for domestic applicants because of additional time required in evaluating records and preparing necessary documents for the Bureau of Citizenship and Immigration Services (BCIS). The filing periods are established as follows:

Term	Application Filing Period
Fall Term	October 1-30
Winter Term	June 1-30
Spring Term	August 1-31

The Admissions Officer may waive this advance application requirement if circumstances warrant. In addition to the academic requirements outlined below, international students must have competence in the English language, financial resources adequate to provide for all expenses during their period of study at Cal State L.A., and must be in good health.

Application Acknowledgment

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

Transcript Requirements

Applicants with either a degree or credential objective must request that two copies of official transcripts be sent to the University from all colleges and universities previously attended, even if no course work was completed. Transcripts from within the U.S. must be received at least 30 days before the first day of the term to which the applicant applies. Documents from outside the U.S. must be received at least 60 days before the first day of the term to which the applicant applies. Processing of applications cannot be guaranteed unless all required documents are received during the designated application period.

All transcripts become University property and will not be released or copied except for students that request that their application be redirected to another CSU campus. Transcripts are retained for one year for applicants who do not enroll in the quarter of application or who send transcripts but do not file an application.

Official transcripts received in an envelope sealed by the issuing institution. For initial advisement purposes, students are recommended to bring their own set of transcripts.

Graduate-Postbaccalaureate English Language Requirement

All graduate and postbaccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL), 79 internet-based TOEFL. Some programs require a higher score. Those who plan to pursue an M.A. degree in Teaching English to Speakers of Other Languages (TESOL) must achieve a minimum TOEFL score of 600 on the paper-based test, 250 on the computer-based test, 100 internet-based TOEFL.

In exceptional cases, the Director of the Office of Admissions and Recruitment may waive the TOEFL score requirement if recommended by the applicant's proposed major department or division and the college graduate dean. Variation from the minimum TOEFL score will be considered only for applicants with a B (3.0) grade point average as evaluated by the Office of Admissions and Recruitment and whose TOEFL score is not more than ten points below 550 on the paper-based test, 6 points below 213 on the computer-based test, or 3 points below 79 on the internet-based test. This consideration does not apply to applicants who are pursuing a M.A. degree in Teaching English to Speakers of Other Languages (TESOL).

Several CSU campuses may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS), and the International Test of English Proficiency (ITEP).

Cal State L.A. minimum respective test standards for graduate applicants are:

	Internet	Paper
TOEFL		
Undergraduate	61	500
Graduate	80	550
IELTS	Not applicable	
PTE	44	

To obtain TOEFL registration materials, locations and test dates, write to:

Educational Testing Service
P. O. Box 6154
Princeton, New Jersey 08541-6151
www.toefl.org

You also may contact the U. S. embassy in your country for TOEFL information. Request that your TOEFL test results be sent directly to California State University, Los Angeles (institution code 4399).

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the campus expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the campus website.

Appeal information may be found at <http://www.calstatela.edu/univ/admiss/appeal/>.

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Faculty and professional staff provide education-related services for students within several centers and offices. These include the University Academic Advisement Center, the University Tutorial Center, the University Testing Center, the University Writing Center, the Career Development Center, the Student Health Center, the Center for Student Financial Aid, the Office for Students with Disabilities, and the offices of Admissions and University Outreach, International Student Services, and Housing and Residence Life. Additional services are provided by various areas of the campus. In addition, many departments, divisions, and colleges offer students opportunities for involvement in campus life.

Career Development Center

General Information

Home Page: www.calstatela.edu/univ/cdc

Hours of Operation:

Mon./Thurs.	8:00 am – 6:00 pm
Friday	8:00 am – 5:00 pm
Appointments/Information	(323) 343-3237
Student Employment	(323) 343-3277
On-Campus Interviews	(323) 343-3276

Students are required to show a valid Cal State L.A. Student I.D. to receive career services. Cal State L.A. graduates are entitled to an additional quarter of free access to Career Center services. After that, students must become Career Center Associates or members of the Alumni Association in order to receive career services.

Career Counseling

Choosing an academic major and investigating career options (including graduate programs and professional schools) are important career planning steps. Integrating all of the details of a job search is an important career placement procedure. Professional career counselors are available by appointment and on a limited walk-in basis for individual consultation about these issues.

Workshops

A variety of workshops is offered to assist students in their career planning and job search. Workshops address such topics as choosing a major, interview techniques, resumé writing, and job search strategies. A workshop schedule may be obtained through the Career Center Website or by visiting the Career Center at the beginning of each quarter.

Career Development Resources

Career Assessment Instruments

The Strong Interest Inventory (SII) and the Myers-Briggs Type Indicator (MBTI) are offered by individual appointment. A small fee is charged for each instrument.

Computer-Assisted Guidance Choices

This computer-assisted career assessment program focuses on interests, experiences, and work-related values. It provides job titles, descriptions, employment outlook information, and information about colleges and universities across the U.S.

WinWay Resume is a program that automates the entire resume writing process, from overall format to job specific content.

Perfect Interview is an interactive program that provides mock interviews. A webcam records student responses to an interviewer's questions. Students can view their responses and see a pre-recorded sample of an expert response.

Career Resource Library

The Center maintains a comprehensive collection of books, directories, binders, and videos on the following topics:

- Academic majors and careers
- Interviewing techniques, resume and cover letter writing, job search strategies.
- Salary surveys and labor statistics.
- Job search books for special populations.
- Graduate and professional programs
- Company profiles
- Civil service positions

The library also features computers for students to use for career-related purposes.

Eagle iJobs

The Career Center provides exclusive job listings to Cal State L.A. students featuring full and part-time on and off-campus jobs and internships via Eagle iJobs. All job seekers are encouraged to register with the service, and can see the front desk for details.

Student Employment

Student Employment offers a valuable service for students who seek part-time employment. There are two types of programs on campus:

Student Assistant:

Students are employed to assist faculty and staff on a part-time basis, maximum of 20 hours per week, in many offices of the University. Students may consult the Student Employment Unit for information.

Federal Work-Study (FWS) Program:

The Federal Work-Study program is intended to increase part-time employment opportunities and to assist financially-eligible students. Determination of eligibility for FWS awards is made by the Center for Student Financial Aid, Student Affairs 124. Job openings are listed on display boards in the Career Center and online.

Off-Campus Federal Work-Study:

Off-Campus employment through the Federal Work-Study program offers an exciting work experience that combines paid community service with active learning, for qualified students. Current openings are listed online and in the Career Center.

Other Programs

Job Referral

Through the Job Referral program, a wide range of vacancies in business, industry, civil service, and education is made available to the campus community. Job vacancies are accessible online via Eagle iJobs and are also listed in the Career Center on our job boards and in our binders.

Internships/Cooperative Education

Internships may be paid or unpaid and offer students hands-on experience in their major discipline. Cooperative Education positions are internships that enable students, with department/division approval, to earn elective credit toward an academic major or minor. Current listings are available in the Career Center.

On-Campus Interview (OCI) Program

The Career Center coordinates interviews for seniors and recent graduates with representatives of business, industry, education and government agencies. Interviews for entry level career positions take place in the Career Center in the fall and spring.

Career/Job Fairs

Each year, more than 200 employers visit the campus during the fall and spring quarters to participate in the Career/Job Fairs. The representatives are interested in students from a variety of majors and a wide range of experiences.

The **Education Job Fair**, a career fair for those seeking employment in schools pre-K - 12, is held each March.

Alumni Program

Any person who becomes a Career Center Associate or a member of the CSULA Alumni Association is entitled to use most Career Center services. Contact the Career Center for information on how to become a Career Center Associate. An annual fee is charged for membership. Services include:

- Access to job listings in the Career Center and on Eagle iJobs
- Use of the Career Resource Library
- Individual appointments with a career counselor
- Participation in workshops and career information programs
- Use of computer-assisted programs
- Participation in on-campus interviews, limited to a space-available basis (Cal State L.A. graduates only)
- Attendance at all Career/Job Fairs

Center for Student Financial Aid

The Center for Student Financial Aid, located in Student Affairs 124, assists students find resources to finance their education at Cal State L.A. The center administers a variety of federal and state grants, scholarships, work-study, and student loan programs. The Center is open Monday through Thursday between 8:00 a.m. and 6:00 p.m., and Friday between 8:00 a.m. and 5:00 p.m.

To apply for financial assistance, students must submit a Free Application for Federal Student Aid (FAFSA) to the Department of Education processing center. Information submitted is evaluated to determine financial aid eligibility. The priority deadline is March 2nd of each calendar year. Applications received after the March 2nd priority deadline will be processed in a rolling basis and awarded based remaining funds. Students must re-apply for financial aid every academic year.

Students are encouraged to apply on-line at <http://www.fafsa.ed.gov/index.htm> or may obtain a paper (FAFSA) form at the Center for Student

Financial Aid, at any college financial aid office, in high school guidance offices, or local libraries. Applicants are notified by email or mail about their eligibility for financial aid.

Financial Aid Programs

Students who submit a completed (FAFSA) are considered for the following types of financial aid:

Grants

Federal, state, or institutional funds that do not have to be repaid.

Loans

Federally-guaranteed student loans with low interest rates that students must begin repaying six months after they graduate or drop below half-time status.

Employment through the Federal Work-Study Program

On and off-campus student work opportunities offered by the Federal Work-Study Program. The Career Development Center assists in job placement.

Need Analysis and Eligibility

Financial aid eligibility is determined from information provided on the FAFSA. A Federal Methodology is used to determine the Expected Family Contribution (EFC) from students and their families. The difference between the cost of education and the Expected Family Contribution constitutes financial need.

Summer Funding

Financial aid (grants, loans and work-study) is available to eligible students for Summer Quarter attendance.

To learn more about financial aid at Cal State L.A., visit the Website: http://www.calstatela.edu/univ/finaid/index_FA.htm

Scholarships

There are over 300 scholarships available to students who are currently attending Cal State L.A. Available scholarships have a wide variety of criteria, and many are for new and continuing undergraduate, graduate and certificate students enrolled with the University. Scholarships are based on such criteria as academic major, academic achievement, campus and/or community participation, financial need, or a variety of other purposes. Some scholarships will provide funding for student fees; others will support the cost of books, transportation and living expenses.

Students who wish to be considered for all institutional scholarships for which they are qualified should file one (1) General Scholarship Application and have one (1) letter of recommendation. The application and letter should be submitted to the Center for Student Financial Aid, Student Affairs 124. The submission deadline for new students is in March. The deadline for continuing students is in April.

For criteria and up-to-date scholarship listings, go to http://www.calstatela.edu/univ/finaid/on_campus.htm

New Student Orientation Programs

All freshman students enrolling for the first time at Cal State L.A. are required to attend an orientation to the University prior to registering for classes for their first quarter of attendance. Transfer students are not required to attend but attendance is strongly recommended. Orientation programs are planned to introduce new undergraduate students to Cal State L.A. The programs are held shortly before new student registration; the dates appear in the Schedule of Classes each quarter. Participating students are welcomed by campus administrators and student leaders, given valuable information by faculty advisors, invited to participate in small group sessions with trained student orientation leaders, and assisted in registering for classes. More information is available by calling (323) 343-3195, or at the University Orientation Website: www.calstatela.edu/univ/stuaffrs/orientation

Educational Participation in Communities (EPIC)

EPIC is the University's community service learning center. EPIC encourages Cal State L.A. students to become involved in off-campus community service and works with faculty to support service learning courses. Students can gain valuable experience and personal development through a wide range of service opportunities and can also receive academic credit for volunteer service by enrolling in Community Service 395, a course offered by several academic departments. EPIC also coordinates other community service initiatives such as the America Reads/America Counts tutorial program, the annual Toy and Food Drive, and the Youth Employment Program. Utilizing principles of student development, EPIC employs approximately 50 Federal Work Study students who serve as leaders and coordinators of all of the program's service initiatives. For further information contact EPIC in the lower level of the Career Center or call (323) 343-3380.

Student Health Services

Medical Services

The Student Health Center (SHC) offers a full array of health-related services including general medical care of common health problems, women's health and family planning, physical examinations, health promotion and education, dental care, pharmacy, X-ray, laboratory, optometry, chiropractic, and massage therapy. Many services are offered free of charge, and others are provided at low costs. The SHC also provides various immunizations such as those required for admission to Cal State L.A., employment, and traveling. The center is open Monday–Friday. For more information call (323)343-3300 or visit the Student Health Center web site, http://www.calstatela.edu/univ/hlth_ctr/. To make appointments, students can call (323)343-3302.

Students having severe or complicated illnesses that need hospitalization or care beyond the scope of the health center are referred to private or community providers/facilities. Because on-campus services may not meet students' year-round health needs, enrollment in a program of supplemental health insurance is recommended. Information about the campus-sponsored program is available at the Student Health Center.

Personal Counseling

The Counseling and Psychological Services in the SHC provides individual and group counseling for students dealing with issues such as depression, anxiety, personal adjustment difficulties, problems with interpersonal relationships, conflicts about sexuality, coping with stress, and clarifying goals. Counseling can help students deal with their personal and emotional issues and make the most of their education by fostering personal growth and promoting mental health. The center is a place where individuals can explore and express their feelings, values, and concerns with a trained professional in an atmosphere that is confidential, interactive, and non-judgmental. Students can make appointments by calling (323) 343-3314.

Other Services and Programs

Anna Bing Arnold Child Center

The Anna Bing Arnold Child Care Center provides part-time and full-time day care at a nominal cost for children ages two to five years whose parents are Cal State L.A. students, staff, or faculty members. The center is located at 2300 Levanda St. in Los Angeles, adjacent to the campus. The attractive, residential style building with a large, fully fenced yard was designed to serve as a learning environment for Cal State L.A. students as well as for children. For applications and information, call (323) 343-2470.

Immigration Counseling Services

Provides assistance to visa students, foreign scholars, and foreign faculty with visa issuance (F, H, and J visas, etc.), maintenance of student status, and matters that involve the U.S. Department of Homeland Security.

Opportunities to Study at Other Universities in the U.S. and Abroad

The California State University International Programs (IP) provides the opportunity to study for an academic year at top universities in numerous countries. The International Office (SA 115) offers information about short-term study opportunities in other countries, Fulbright and Rotary fellowships, internships, volunteer programs, and short-term work opportunities abroad. Academic credit is available for study abroad. Financial aid may be applied to these programs. Many programs cost little more than studying at Cal State L.A. For more information about these programs, visit Student Affairs 115, call (323) 343-3170, or refer to the **International Programs** section in the chapter titled **The University**.

Office for Students with Disabilities

The Office for Students with Disabilities (OSD) provides services designed to enhance the educational and social experience of students with disabilities. Students with verified disabilities are provided appropriate disability-related services as eligible from the following list:

- Admission requirement information
- Orientation to OSD services
- Priority registration
- Program change assistance
- Temporary disabled parking
- Liaison to the State Department of Rehabilitation
- Referrals to on- and off-campus resources
- Referrals for Diagnostic assessment of learning disabilities
- Referral to on-campus computer labs that have adaptive equipment
- Disability management counseling
- Test-taking accommodations
- Note taking services
- Tutoring by referral
- Interpreters (sign language and oral)
- Real-time captioning
- Test proctors
- Lab assistants

Adaptive Technology Program

The Adaptive Technology Program provides students alternative access to electronic information and computer technology, including orientation and training. The program provides campus-wide support for the libraries, academic technology services, and all academic departments and divisions. The program has a lab of twelve computers in Library South Palmer Wing room 1080. The program provides training and support on standard software, voice-input systems, screen readers, enlargement software, Braille translation and printing, CCTV's, book-reading equipment, and other educational aids.

Alternative Media Services

Alternative media accommodations are available to eligible students with documented disabilities that impair the ability to perceive, comprehend or manipulate written materials. Students who believe they are eligible should meet with a Disability Specialist to discuss their needs.

The Office for Students with Disabilities is located in Administration 127, (323) 343-3140 (TDD 343-3139); fax (323) 343-6429.

Veterans' Services

Cal State L.A. is approved for the training and education of veterans of the military services and their dependents under educational assistance programs established by the state and federal governments. Authorization for education benefits under all federal bills must be obtained from the Veterans Administration through its regional office at 11000 Wilshire Boulevard, Los Angeles, CA 90024 or online at <http://gibill.va.gov/apply-for-benefits/application/>. Veterans with no prior claims under the G.I. Bills are urged to request their letter of eligibility at least two months before enrolling. Those transferring from another school should submit their G.I. Bill transfer request at least one month before enrolling.

The Veterans Affairs Office, located in Administration 122, (323) 343-5080, and acts as a liaison and advocate for student-veterans on campus. The office also provides General Education academic advising, housing information, additional VA benefits counseling, and is home to the Student Veteran

Organization on campus. The Certifying Official is located at Administration 401, (323) 343-3943 and provides enrollment certification for financial benefits and serves as a liaison between the University and the VA regional office for benefit payments and advisement about current benefits. Information about changes in legislative regulations and procedures also is available at both offices.

Children of Disabled Veterans

Students who qualify as children of certain disabled veterans of U.S. military services may be exempted from paying any student services portion of the registration fees, according to the California Education Code. Information about eligibility requirements and applications for waiver of these fees are available in the Office of Veterans' Services.

Housing Services - Living on Campus

Cal State L.A.'s resident apartments offer an excellent "home away from home" for students who choose to live on campus, from freshmen to graduate students. All of the 132 two-bedroom and 60 four-bedroom apartments are furnished, including carpeting and blinds, air conditioning, stoves, microwave ovens and refrigerators. Students may relax in two community centers. The complex also offers a recreation/game room, large TV lounge, computer lab, dining room and laundry facilities. The basketball court is equipped with lights for evening use. Parking is available in a specially designated, well-lit parking area. Live-in staff members help residents build and maintain a sense of community. Resident Advisors provide both educational and social programs to create a well-rounded experience for students who live in on-campus housing.

Opening Fall 2011, Dobbs Street Community Housing for Graduate Students. Students can look forward to affordable housing with single occupancy in two-bedroom apartments. There are suite-style and double occupancy rooms for students on a stricter budget. Living at the Dobbs Street Community gives you an opportunity to meet and live among graduate students and enhance your academic experience. Take advantage of our quiet community living with convenient access to classes, faculty, libraries, research facilities and other campus resources. It is perfect for students without cars and only minutes away from class.

For more information, contact Housing Services at askhousing@cslanet.calstatela.edu, (323) 343-4800 or visit the website: www.calstatela.edu/univ/housing/.

University-Student Union

The University-Student Union (U-SU), (323) 343-2450, is the focal point of extracurricular interaction for the University community. Students, staff, faculty, alumni, and invited guests participate in social, cultural, recreational, and educational activities. In temporary quarters until a new University Student Union is built, the Union offers information services, lounge and study areas, and employment opportunities, as well as student activities and special events.

Board of Directors

The University-Student Union Board of Directors, which comprises 13 voting members including seven students, establishes policy and governance and develops administrative policies that affect the management of the building. The board conducts much of its work through a committee structure that includes fiscal, personnel, space allocation and building usage, student programs and executive committees. Meetings are open to the public, and attendance is encouraged. Applications for the U-SU Board can be picked up in Room 306 or by contacting Joe Sedlacek at 323-343-2450.

Union Meeting & Event Services

The Union Meeting & Event Services (UMES) office is responsible for processing reservation requests and assisting sponsors with identifying the most efficient use of designated and programmable space in the University-Student Union. This office also coordinates all nonacademic scheduling of campus facilities for recognized student clubs and organizations. Meeting rooms, conference facilities and audio-visual or media equipment for conferences, retreats, receptions, and social events can also be reserved through this office. UMES is located on the third floor of the University-Student Union in Room 306. Please feel free to contact us by phone at 323-343-2465 or by email at ureserv@cslanet.calstatela.edu

Student Activities

Cross Cultural Centers

The mission of the Cross Cultural Centers at California State University, Los Angeles is to encourage student learning as well as foster an inclusive campus community that challenges racism, sexism, heterosexism, classism, and other forms of oppression. With a commitment to social justice and increasing cross-cultural awareness, the CCC offers a wide variety of programs and services that explore the shared and unique experiences, histories, and heritages of our diverse community.

The Cross Cultural Centers consist of four resource centers: Gender & Sexuality Resource Center (founded as Women's Resource Center) in 1976; Pan African Student Resource Center, founded in 1990; Asian Pacific Islander Student Resource Center, founded in 1993; and Chicana/o Latina/o Student Resource Center, founded in 1993. The CCC is located on the second floor of the University-Student Union, Room 206. Contact the Cross Cultural Centers at (323) 343-5001.

Center for Student Involvement

The Center for Student Involvement serves as a hub for student involvement and programs, adding to the value of campus life at Cal State L.A. The Center is responsible for Campus Programs and Activities; Student Organizations; Fraternities and Sororities; and Student Leadership Initiatives. Over 150 programs are offered each year for Cal State L.A. students, faculty, staff, alumni, and guests. A group of student coordinators plan and promote a variety of events, including Fall Student Fest, Mardi Gras, musical entertainment, comedy performances, lectures, workshops, and recreational trips.

Cal State L.A. hosts over 100 student organizations that address a variety of issues and plan hundreds of events each year. The student organizations represent academic, cultural, political, professional, religious and spiritual, service, social, and recreational interests. Students are able to join an existing organization or start one of their own.

Many programs are offered that allow students to explore and enhance their leadership abilities including the Leader Project and Leader to Leader. U-

Lead workshops are offered throughout the year by the Center to serve all leaders. The Center is located on the second level of the University-Student Union in room 204. Please feel free to contact The Center for Student Involvement at 323-343-5110 or [centersd@calstatela.edu](mailto:center@d@calstatela.edu).

Sororities and Fraternities

A traditional part of campus life for many Cal State L.A. students is membership in fraternity and sorority organizations, which offer the chance to meet new friends and participate in an extensive program of activities. In addition to social functions, these organizations are involved in various campus and community projects and provide housing for a limited number of their members.

Sororities	Fraternities
Alpha Sigma Tau	Alpha Phi Alpha
Alpha Theta Pi	Fraternity, Inc
Chi Sigma Phi Beta Colony	Beta Gamma Nu
Delta Phi Sigma	Gamma Zeta Alpha
Delta Sigma Theta Sorority, Inc.	Phi Sigma Kappa
Delta Zeta	Sigma Alpha Epsilon
Kappa Zeta Phi	Sigma Lambda Beta
Lambda Theta Alpha	Sigma Nu
Lambda Theta Nu	
Sigma Lambda Gamma Colony	
Upsilon Kappa Delta	
Zeta Phi Beta	

Co-Ed Fraternity

Alpha Phi Omega
Delta Sigma Chi
Kappa Mu Alpha

Women's and Gender Studies Activities

A wide variety of programs in Women's and Gender Studies are offered through the Center for the Study of Genders and Sexualities (CSGS). Lectures, performances, faculty-research discussions, internships, and research opportunities are all open to students. CSGS invites students to serve on planning committees as well. Students from all majors and minors are eligible to participate.

Intramurals

The School of Kinesiology and Nutritional Science offers a variable selection of intramural sports and activities for all men and women at Cal State L.A. Opportunities range from varied recreational interests to competitive intramural leagues. Students may enroll for credit in an intramurals course, PE 110.

Student Publications

A wide variety of student publications represent the myriad academic and professional interests of Cal State L.A.'s student body. A partial list of these publications appears below. For information about being involved in—or receiving—a particular publication, interested students should contact the appropriate department/division/school.

Publication	Department or College Office
Statement	English
University Times	Communication Studies
Perspectives: A Journal of History	History

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General Information

Information about University procedures and regulations contained in this section is applicable to all undergraduate students. Some general information also applies to postbaccalaureate and graduate students. Additional procedures and regulations applicable only to postbaccalaureate and graduate students are included in the Graduate and Postbaccalaureate Study section.

Undergraduate Class Levels

Undergraduate students are classified according to the number of quarter units of baccalaureate-level course work they have completed, calculated as follows:

<u>Class Level</u>	<u>Quarter Units Completed</u>
Lower Division	
Freshman	0–44
Sophomore	45–89
Upper Division	
Junior	90–134
Senior	135+

Quarter Units/Quarter System

Cal State L.A. credits are expressed in quarter units; one quarter unit normally represents no less than one hour of class work and two or more hours of outside study per week for one quarter. One and one-half (1½) quarter units are equal to one (1) semester unit. Conversely, one quarter unit is equal to 2/3 semester unit of credit.

Study Load

Undergraduate students must carry a study load of 12 units for full-time enrollment certification by the University. The recommended full-time study load for undergraduates is 16 units. Students on scholastic probation must limit their study load to 12 units unless an academic adviser in their major department/division/school has approved an exception.

Campus Identification Number (CIN)

Effective Summer Quarter 2003 California State University, Los Angeles will randomly assign a nine-digit Campus Identification Number (CIN) to all students in the University. This number is used as a means of identifying records and offering services pertaining to students. The students' Social Security Number will continue to be retained for purposes of financial aid eligibility and other debts payable to the institution.

Undergraduate Student Orientation

All undergraduate students enrolling for the first time at Cal State L.A. are required to attend an orientation to the University prior to registering for classes for their first quarter of attendance. The orientation will provide information to help students gain a better understanding of the various aspects of University life and learn about policies and procedures as well as, skills and knowledge for success. Student will also learn about appropriate courses for their individual program and register for their first quarter. More information is available by calling (323) 343-3195, or at the University Orientation Website: www.calstatela.edu/univ/stuaffrs/orientation.

Registration

Continuing students at California State University, Los Angeles receive information regarding their registration appointment dates by logging into GET (Golden Eagle Territory). Additional information about registration procedures is provided in the Schedule of Classes, available online each quarter before the registration period Web registration (GET) is available to all eligible continuing students.

Students maintain their continuing student status for registration purposes only by attending at least one of the three quarters immediately preceding the quarter in which they plan to enroll (excluding the summer term). Students who were admitted and enrolled in one of the last three quarters preceding the quarter in which they plan to enroll will also maintain their continuing student status for registration purposes. Absence for more than one of any three consecutive quarters without an approved leave of absence will cancel continuing registration eligibility. See Leaves of Absence later in this chapter.

Effective Fall Quarter 2013 and for subsequent quarters, continuing student status for registration purposes is maintained by attending at least two of the four quarters immediately preceding the quarter a student wishes to enroll in, including Summer Quarter. For students who have been in attendance for at least four quarters prior to Fall Quarter 2013, for example, this means that they will be continuing students only if they attended any two of the preceding four quarters, including Summer Quarter 2013. This information will also be included in the online Schedule of Classes.

Attendance in University extension courses does not constitute continuous attendance. Students who attended another college or university during an absence from Cal State L.A., except for a summer session or extension program or approved visitor enrollment at another CSU campus, are required to file an application for admission as a returning student and have official transcripts of work taken sent to the Admissions Office. The \$55 nonrefundable application fee is charged. Such students will, if eligible, receive forms to register as returning students.

Students who have graduated with a bachelor's degree from Cal State L.A. and wish to continue in graduate standing are required to file a new application for graduate admission and will, if eligible, receive forms to register as new students.

Academic Advisement

Academic advisement is required for all new students before or during their first quarter in attendance. Freshman students must attend Orientation and will receive basic advisement during their Orientation session. Before registering for their first quarter at Cal State L.A., transfer students should consult an adviser in their major department/division/school to plan a program of study. Newly admitted students should bring a copy of all high school and/or college transcripts when seeking advisement. They should consult the *Schedule of Classes* for a list of academic advisers. After the first advisement session, students must consult an academic adviser at least annually or more often as necessary to enhance academic success. Undergraduate students who, upon admission to the University, are unable to select a specific major shall consult an adviser in the University Academic Advisement Center.

By the end of their first year in residence, students must meet with an academic advisor to develop a degree plan. Because the approved degree plan becomes the basis for determining eligibility for the degree, any change in the student's degree plan must have an academic adviser's approval. Annual, or more often as needed, consultation with an academic adviser in the major department/division/school or University Academic Advisement Center is therefore required.

After reaching 90 units and before completing 120 units, all students are required to meet with an academic advisor to review their progress toward graduation based on an audit of their degree plan. In addition, if students have reached 180 units and have not filed a graduation application, they must meet with an academic advisor to develop a plan to help ensure timely and efficient progress toward graduation. The plan will include remaining requirements and dates of future progress checks.

Forms used for change or declaration of major are available in Administration 146. Students may change their major by consulting an adviser in the appropriate academic department/division/school, and by application through the University Academic Advisement Center. They should be aware, however, that a change in major will require that adjustments be made to their degree plan and may delay graduation.

Undeclared Majors

Upon admission, undergraduate students are encouraged to declare a major. Those who have not selected a specific major shall be designated undeclared majors. Before registering for their first quarter at Cal State L.A., undeclared majors shall consult an adviser in the University Academic Advisement Center, Library, Palmer Wing 1040A, to plan a preliminary program of study.

All first time freshmen and transfer students who are admitted with less than 30 units shall declare a major by the time they complete 45 quarter units in residence or four quarters in residence, whichever comes first.

All transfer students must declare and be accepted into a degree program upon matriculation.

Upon declaring a major, students shall meet with an academic advisor to develop a degree plan.

Final Examinations

Final examinations or final class meetings are required in all courses at the time and place shown in the final examination schedule in the *Schedule of Classes*. Any exception in time or place must have written approval of the instructor, department/division/school chair or director, and college dean. Students who find it impossible to take a final examination at the scheduled time may, with the written approval of the instructor, department/division/school chair or director, and college dean, have a special final examination administered.

Repeating Courses

Unless otherwise indicated in the description of a particular course in this catalog, students may not repeat for credit any course they have already completed with a grade of C (2.0 grade points) or higher nor may they, in any case, receive units earned more than once for each passing attempt.

Repeating Courses for Grade Replacement

Unless otherwise indicated in a particular course description in the University Catalog, students may not repeat for credit any course already completed with a grade of C (2.00 grade points) or higher.

Students may repeat a course up to two times for purposes of grade replacement if the grade of record is below a "C." Grade replacement is the circumstance in which the new grade replaces the former grade in terms of the calculation of GPA. Grade replacement will occur automatically for up to a maximum of 20 quarter units of repeated coursework and is limited to courses taken at California State University, Los Angeles, whether taken in a matriculated status or as coursework completed through Extended Educational or Open University. Grade replacement shall occur only when the same or equivalent course is taken a second or third time at California State University, Los Angeles. For purposes of grade replacement, a repeated course may be considered equivalent to the original course if only the number and/or name of the original course has been modified, but not for a different course with equivalent content. In computing grade point averages for graduation with a baccalaureate from this institution, units attempted, units earned (if any), and grade points (if any) for up to two previous attempts of the same or equivalent course shall be excluded when conditions specified in this policy are met. Repeating courses under this policy does not result in the removal of the original record and grade from the transcript. Grade replacement shall not be applicable to courses for which the original grade was a result of a finding of academic dishonesty. Individual colleges and departments/divisions/ schools/programs may have additional restrictions on acceptance of grade replacement.

Repeating Courses with "Grades Averaged"

In addition to the 20 quarter-units for which grade replacement is permitted, undergraduate students may repeat 18 quarter-units with the grade earned in the repeated course calculated into the student's overall grade-point average. The original grade is not replaced by the repeated grade; both grades are used for the calculation of the grade point average and remain on the student's records. These limits apply to units completed at CSULA, whether as a matriculated student or through the College of Extended Studies and International Programs or Open University.

Academic Renewal

Under certain circumstances, up to two semesters or three quarters of previous undergraduate course work taken at any college may be disregarded from all considerations associated with requirements for the baccalaureate. Detailed eligibility and procedural information is provided in the *Schedule of Classes*.

The basic criteria are listed below:

- Five years must have elapsed since the completion of the most recent work to be disregarded;
- Any previous removal of work from degree consideration must be included in applying the limits on work that may be disregarded;
- Since completion of the work to be disregarded, students must have maintained the following grade point averages at Cal State L.A. at the time of petition: 3.0 for students with 22–44 quarter units completed; 2.5 with 45–66 units completed; and 2.0 with 67 or more units completed; and
- There must be evidence that the student would find it necessary to complete additional units and enroll for one or more additional quarters to qualify for the baccalaureate if the request was not approved.

Students are advised that they may file a petition to disregard undergraduate course work as described above if their grade point average is lower than C (2.0) in general education, the major, or overall college units attempted (a condition preventing them from qualifying for the degree) and they meet all of the above criteria and conditions.

Honorable Dismissal

Honorable dismissal is granted to all students who are not under financial obligation to the University and who are not under disciplinary probation, suspension, or expulsion. Academic disqualification does not constitute dishonorable dismissal.

Petitions for Waiver of Regulations

Rules and regulations in this catalog have been adopted by the faculty and administration to maintain appropriate academic standards and facilitate the administration of the university's programs. Students who believe that extenuating circumstances might justify the waiver of a particular regulation or requirement may file a petition at their major department/division/school office, according to established procedures, for consideration by a faculty committee. However, provisions of *Title 5, California Code of Regulations*, or other state or federal laws and regulations, are not subject to waiver by petition. Detailed information about procedures and regulations governing petitions are found in the *Schedule of Classes*.

Schedule of Fees: 2013-2014

CAUTION: All student fees are subject to change without advance notice. See **Schedule of Classes** or the **on-line catalog** for most current fee listing.

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fee, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as **estimates** that are subject to change upon approval by The Board of Trustees.

The following reflects applicable systemwide fees for both semester and quarter campuses that were authorized by the Board of Trustees at their July and November 2011 meetings and September 2012 meeting. **These rates are subject to change.**

All Students

Application Fee (nonrefundable), payable by check or money order at time application is made: \$55

2013-14 Basic Tuition Fees

2013-14 Basic Tuition Fees				
Units	Per Quarter		♦Per Academic Year	
	Undergraduate	Graduate	Undergraduate	Graduate
0.0 to 6.0	\$ 1,058.00	\$ 1,302.00	\$3,174.00	\$3,906.00
6.1 or more	\$ 1,824.00	\$2,246.00	\$5,472.00	\$6,738.00
Credential Program Participants				
Units	Per Quarter	♦Per Academic Year		
0.0 to 6.0	\$1,228.00	\$3,684.00		
6.1 or more	\$2,116.00	\$6,348.00		
Campus Mandatory Fees		Per Quarter	♦Per Academic Year	
Student Health Services		\$55.00	\$165.00	
Health Facilities		2.00	6.00	
Athletics Fee		20.95	62.85	
Instructionally Related Activities		20.00	60.00	
***Associated Students		**17.25	53.75	
University-Student Union		91.50	274.50	

** \$19.25 in Fall Quarter
 *** Refer to Appendix H
 ♦Academic year does not include summer quarter

Total Cal State L.A. University Fees (Includes State University Tuition fees and Campus Mandatory fees listed above)				
Units	Per Quarter		♦Per Academic Year	
	Undergraduate	Graduate	Undergraduate	Graduate
0.0 to 6.0	\$1,266.70	\$ 1,510.70	\$3,800.10	\$4,532.10
6.1 or more	\$2,032.70	\$ 2,454.70	\$6,098.10	\$7,364.10
Credential Program Participants				
Units	Per Quarter		♦Per Academic Year	
0.0 to 6.0	\$ 1,436.70		\$4,310.10	
6.1 or more	\$ 2,324.70		\$6,974.10	

♦Academic year does not include summer quarter

Doctorate Programs

Fees for Students enrolled in the joint Ed. D. program with the University of California, Irvine (UCI), pay fees at UCI. Students enrolled in the joint Ph. D. program with the University of California, Los Angeles, pay Graduate fees at Cal State L.A.

2013/14 Doctorate Tuition Fees, effective fall 2012*

	Units	Per Semester	Per Quarter	Per Academic Year
Education	All Students	\$5,559	\$3,706	\$11,118
Nursing Practice	All Students	\$7,170		\$14,340
Physical Therapy	All Students	\$8,074		\$16,148

* Applicable term fees apply for campuses with special terms, as determined by the campus. Total College Year fees cannot exceed the Academic Year plus Summer Term fees. The Summer Term fee for the Education Doctor at quarter campuses is equal to the Per Semester fee listed in the table. Total fees for the Education Doctor over the College Year equals the Per Academic Year fee plus the Per Semester fee for the summer term at all CSU campuses.

2013/14 Graduate Business Professional Fee

All Students \$169.00 per quarter unit rate

The Graduate Business Professional Fee is paid on a per unit basis in addition to basic tuition fees and campus fees for the following graduate business programs:

- Master of Business Administration (M.B.A.)**
- Master of Science (M.S.) programs in Accountancy**
- Master of Science (M.S.) programs in Business Administration**
- Master of Science (M.S.) programs in Health Care Management**
- Master of Science (M.S.) programs in Business and Technology**
- Master of Science (M.S.) programs in Information Systems**
- Master of Science (M.S.) programs in Taxation**

Nonresident Tuition—U.S. and Foreign

Nonresident Tuition (In addition to basic tuition fees and other systemwide fees charged all students)for all campuses:	
Charge per quarter unit	\$248.00
The total Nonresident tuition paid per term will be determined by the number of units taken. Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers). Students are charged campus fees in addition to tuition fees and other systemwide fees. Information on campus fees can be found by contacting the individual campus(es).	

Other Fees

(refer to Schedule of Classes for more detailed list)

Fee	Amount
Comprehensive exam. (course #596 in major)	\$10.00
Credential application (\$55 goes to the California Commission on Teacher Credentialing)	120.00
Credential (transcript) evaluation/processing	25.00
Degree check application (graduation)	20.00
Diploma	10.00
Dishonored check (first time)	25.00
Dishonored check (subsequent to first time)	35.00
Dishonored credit card	20.00
Entry Level Mathematics (ELM) Exam	16.00

Modern Language Reading Exam (ML 901)	10.00
Late Registration (nonrefundable)	25.00
Automobile Parking Permits per quarter	90.00
3-Quarter Parking Permits	270.00
Motorcycle, Moped Parking Permits per quarter	20.00
Parking Dispenser Machines	
Daily Parking (per hour)	1.00
Two Hours (2)	2.00
Four and a half Hours (4 ½)	3.00
All Day (valid until midnight)	6.00
Fee	Amount
Golden Eagle Card (nonrefundable)	5.00
Thesis binding (per copy) (not a state fee)	15.00
Transcript of academic record (single copy)	4.00
Each additional transcript (2–10) requested at the same time	2.00
Each additional transcript (in excess of 10) requested at the same time	1.00
Writing Proficiency Examination (WPE-UNIV 400)	25.00

Materials/Breakage Fee

Some art, chemistry, and technology courses have additional fees for special materials and/or breakage. These courses are identified in this catalog and in *Schedule of Classes* notes. Items lost or broken will be charged at cost. Failure to satisfy charges billed will result in the withholding of transcripts and registration privileges.

Library "Excessive Use" Fees

"Excessive Use" fees are computed from the time the material was due until the time the material is returned or declared lost.

Excessive Use Fee Per Transaction

Hourly or overnight loans	
Per hour	\$0.25
Maximum per transaction	10.00
Regular loans	
Per day	25
Maximum per transaction	10.00
Replacement fee for lost books	
Excessive use fee	10.00
Service fee	10.00
plus replacement cost of item	
Recalled items	
Per day	0.75
<i>(Due on or before exact date specified in recall notice; no maximum per transaction)</i>	

Once billed, fees are not negotiable except under extenuating circumstances. Failure to satisfy charges billed may result in the **withholding of transcripts and registration privileges**.

Musical Instrument and Audio/Visual Equipment Fee

A fee of up to \$25 will be charged for the repair, maintenance, and insurance of musical instruments and audio/visual equipment owned by the state and used by individual students in course work.

Fee Waivers

The California Education Code includes provisions for the waiver or exemption of mandatory systemwide tuition fees as follows:

Section 66025.3 – Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is totally service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouse/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet certain age and income restrictions;

Section 68120 – Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships); and

Section 68121 – Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001. Students who may qualify for these benefits should contact the Admissions/Registrar's Office for further information and/or an eligibility determination. For more information, contact the Cashiers' Office, (323) 343-3630.

Section 68122 – Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus.

Section 68130.5 – Students who are not residents of California are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are

currently enrolled at a CSU campus. In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are nonimmigrant aliens within the meaning of 8 U.S.C. 1101(a)(15), except as provided by Section 68122 above.

Nonresident Teaching Credential Waiver

Nonresident tuition fees may be waived for persons who hold a valid California credential and are employed by a public school district in this state in a full-time position requiring certification. Eligible persons must meet at least one of the following conditions:

- hold a provisional credential and enroll in courses necessary to obtain another type of credential authorizing service in the public schools;
- hold a partial credential and enroll in courses necessary to fulfill postponed credential requirements; or
- enroll in courses necessary to fulfill requirements for a fifth year of study as prescribed at Cal State L.A.

Schedule of Fees: 2014-2015

CAUTION: All student fees are subject to change without advance notice. See **Schedule of Classes** or the **on-line catalog** for most current fee listing.

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fee, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

The following reflects applicable systemwide fees for both semester and quarter campuses. **These rates are subject to change.**

All Students

Application Fee (nonrefundable), payable by check or money order at time application is made: \$55

2014-15 Basic Tuition Fees

Units Per Quarter

Undergraduate Tuition Fee

6.1 or more	\$1,824
0 to 6.0	\$1,058

Credential Program Tuition Fee

6.1 or more	\$2,116
0 to 6.0	\$1,228

Graduate/Post Baccalaureate Tuition Fee

6.1 or more	\$2,246
0.0 to 6.0	\$1,302

2014/15 Doctorate Tuition Fees*

	Units	Per Semester	Per Quarter	Per Academic Year
Education	All Students	\$5,559	\$3,706	\$11,118
Nursing Practice	All Students	\$7,170		\$14,340
Physical Therapy	All Students	\$8,074		\$16,148

* Applicable term fees apply for campuses with special terms, as determined by the campus. Total College Year fees cannot exceed the Academic Year plus Summer Term fees. The Summer Term fee for the Education Doctor at quarter campuses is equal to the Per Semester fee listed in the table. Total fees for the Education Doctor over the College Year equals the Per Academic Year fee plus the Per Semester fee for the summer term at all CSU campuses.

2014-15 Graduate Business Professional Fee

	Semester	Quarter
Charge Per Unit	\$254	\$169

The Graduate Business Professional Fee is paid on a per unit basis in addition to basic tuition fees and campus fees for the following graduate business programs:

- Master of Business Administration (M.B.A.)
- Master of Science (M.S.) programs in Accountancy
- Master of Science (M.S.) programs in Business Administration
- Master of Science (M.S.) programs in Health Care Management
- Master of Science (M.S.) programs in Business and Technology
- Master of Science (M.S.) programs in Information Systems
- Master of Science (M.S.) programs in Taxation

Nonresident Students (U.S. and Foreign)

Nonresident Tuition (in addition to basic tuition fees and other systemwide fees charged all students) for all campuses:

	Semester	Quarter
Charge Per Unit	\$372	\$248

The total nonresident tuition paid per term will be determined by the number of units taken.

Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Students are charged campus fees in addition to tuition fees and other systemwide fees. Information on campus fees can be found by contacting the individual campus (es).

Credit Cards:

Credit cards may be used for payment of student fees on-line at <https://commerce.cashnet.com/csulapay>

Refund of Mandatory Fees, Including Nonresident Tuition

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support, special session, and extended studies programs or courses at the California State University are governed by a separate policy established by the University, available from the College of Extended Studies and International Programs.

In order to receive a full refund of mandatory fees, less an administrative charge established by the campus, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available in the Schedule of Classes.

For state-supported semesters, quarters, and non-standard terms or courses of four (4) weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

For state-supported non-standard terms or courses of less than four (4) weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day in accordance with the university's established procedures and deadlines.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

- The fees were assessed or collected in error;
- The course for which the fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from Student Financial Services, Administration 128, (323) 343-3630..

Disenrollment

Students who have a tuition and fees obligation to the University will be billed. Payment must be made by the due date printed on the billing statement. Failure to pay by the established deadline is cause for disenrollment because of incomplete payment of tuition and fees. Disenrollment means the permanent loss of credit for classes taken for the quarter involved. There is no refund of any fees already paid for the quarter involved.

Students who fail to complete all required subcollegiate ("remedial") courses during their first year at Cal State L.A. will be disenrolled from the University in compliance with the CSU Chancellor's Office Executive Order 665.

State University Installment Plan

The CSU is now authorized to collect State University Fee and Nonresident Tuition in installment payments. The administrative fee for the State University Installment Plan is \$22 per academic quarter. The administrative fee for nonresident tuition is 15 percent of each installment payment. For additional information about this plan, please refer to the *Schedule of Classes*.

Fees and Debts Owed to the Institution

Should a student or former student fail to pay a fee or a debt owed to the institution, the institution may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Title 5, *California Code of Regulations*, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course. The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the campus cashiers office. The cashiers office, or another office on campus to which the cashiers office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Credit Cards

Credit cards may be used for payment of student fees on-line at <https://commerce.cashnet.com/csulapay> ViSA not accepted.

Categories of Enrollment

Credit by Examination

Undergraduate students in good standing and officially enrolled in one or more residence courses may challenge courses by taking examinations developed at the campus. Examinations are interpreted broadly to include whatever activity, test, or demonstration an instructor deems appropriate to evaluate comprehension, skills, or knowledge required by the course objectives. Credit shall be granted to students who pass examinations that have been approved for credit systemwide. These include the Advanced Placement Examinations, the CSU English Equivalency Examination, and some CLEP examinations.

Approval of the chair of the department/division/school that offers the course and an instructor for the course is required. Forms for approval are available in Enrollment Services, Administration 146, and must be filed with the Records Office by the fifth week of the quarter in which the examination is taken. Additional fees must be paid if the added units alter the total fees due for the quarter.

Credit by examination is restricted to undergraduate and graduate courses listed in this catalog. It is without unit limit, but does not count as residence credit. Such credit is not treated as part of the student's workload during a regular quarter and therefore does not require approval for excess study load. Grades received by examination are recorded as final grades on the permanent academic record and are designated as earned through credit by examination.

Credit earned by examination at another accredited institution is accepted upon transfer, if the units have been accepted by the previous institution as equivalent to specific courses and are not in violation of any other regulations.

Visitors within California State University (CSU)

Students who are enrolled at any CSU campus may transfer temporarily to another CSU campus in visitor status if they have completed 12 units with a minimum C (2.0) grade point average at the home campus, are in good standing, and are eligible to register in continuing status. Visitors are approved for one term only, subject to space availability and registration priority policies at the host campus. Enrollment as a visitor may be repeated after re-enrollment at the home campus. This opportunity may be particularly valuable to students whose educational progress can be enhanced or expedited by attending a summer quarter at Cal State L.A. Concurrent enrollment (see below) is not permitted during visitor status. Visitor applications may be obtained at Student Affairs 101.

Concurrent Enrollment within CSU

Students who are enrolled at any CSU campus may enroll concurrently at another CSU campus if they have completed 12 units at the home campus with a C (2.0) grade point average and are in good standing. Concurrent enrollment is approved for a specific term, subject to space availability and registration priority policies at the host campus. Because of overlap in academic terms of campuses on semester and quarter calendars, concurrent enrollment is subject to combinations and conditions described in the concurrent enrollment application forms available at Student Affairs 101.

Open University

Enrollment through Open University, administered by the College of Extended Studies and International Programs, permits nonmatriculated students to enroll in certain University classes on a space available basis; however, matriculated students in the University who are in continuing status (i.e., students who have registered for at least two of the previous four quarters) may not enroll in degree credit-granting classes offered under state support and made available to students by the College of Extended Studies and International Programs through Open University.

Audit Registration

Regularly enrolled students may register for classes in audit status through add/drop (program change) procedures only as indicated in the *Schedule of Classes* for audit registration. Such registrations are subject to the same fee regulations as registration for credit, and fees must be paid at the time of registration. Registration for a course in audit status is subject to approval of the instructor and is permitted only after students who desire to enroll on a credit basis have had an opportunity to do so.

Regular class attendance is expected, but audit registrants are not required to complete assignments or take examinations. An audit registration may not be changed to a credit registration after the last day to add classes. No entry about audit registration is made on student grade reports or transcripts.

Dual Registration

Undergraduate students who wish to take classes at another accredited college or university, not within The California State University, while enrolled at Cal State L.A. must file a *Notification of Dual Registration* at Student Affairs 101 by the end of the third week of the quarter involved. This notification must be endorsed by the student's Cal State L.A. major department/division/school academic adviser and the department/division/school chair or director for the course(s) involved. Students are advised, also, to consult official evaluators and advisers at the non-CSU campuses where the work is taken to ensure the transferability of course work. Courses so taken are subject to all regulations and limitations governing transfer credit. To receive bachelor's degree credit for such course work, students must have official transcripts forwarded to the Admissions Office upon completion of the course work.

Change of Program

Students are strongly advised to select classes carefully and to avoid the undesirable necessity of changing their program of study. Adding and dropping classes, including changing sections in the same course, may be done only in accordance with policies, procedures, and time limits stated in the Schedule of Classes. Students who fail to follow these procedures incur the risk of a grade of F or WU.

Withdrawals and Leaves

Withdrawal from Courses

The last day of the quarter on which a student may, with the approval of the instructor, add classes is the same day of the third week as the day of the week on which classes began.

Students may withdraw without restriction or grading penalty up to and including the sixth day of instruction. For this purpose, Saturday is not counted as a day of instruction. Students whose class meets weekly and whose first class is not held due to a University holiday shall be given one day after

the first class meeting to withdraw. For this purpose, Saturday is not counted as a day of instruction.

In such cases, no record of individual course withdrawal appears on the permanent academic record.

Drops between the seventh day of instruction, as excepted above, and the end of the seventh week of the quarter are permitted only for serious and compelling reasons. The student must obtain the signatures of the course instructor and the department/division chair or school director on a drop request form, which shall state the reasons for the withdrawal. Undergraduate students shall not be allowed to withdraw from more than a total of 28 quarter-units attempted at CSULA except as specified below.

When circumstances clearly beyond the student's control such serious illness, accidents, job transfer, or military deployment are documented and used as a basis for the approval of withdrawal from all classes during this drop period, the units dropped under these circumstances shall not count against the 28 quarter-unit maximum. Such exceptions to this policy may be granted only with the additional approval by the appropriate college dean. After the seventh week, withdrawals shall not be permitted except in cases when circumstances are clearly beyond the student's control and the student is not eligible for an incomplete. Withdrawals of this nature shall normally require withdrawal from all courses. For those courses in which sufficient work has been completed to permit an evaluation to be made, a course grade and credit may be assigned at the discretion of the faculty. The student must obtain the signatures of the instructor, the department/division chair or school director, and college dean. The student's record will note the withdrawal from the course with a "W." Such withdrawals will not count against the maximum 28 quarter units.

There may arise circumstances where the department/division chair or school director may drop a student without first obtaining the instructor's signature, including when the student and the chair and/or director have been unable to contact the instructor after reasonable good faith effort. In these cases, the chair or director will notify the instructor of the action and its justification.

Cancellation of Registration or Withdrawal from the Institution

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available at Administration 146 or by writing a personal request to the Office of Enrollment Services.

Students who receive financial aid funds must consult with a financial aid officer prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Credit Hour

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit, the "credit hour" is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement. .

Leaves of Absence

Students may petition for a leave of absence for such reasons as professional or academic opportunities, like travel or study abroad; employment related to educational goals and major fields of study or participation in field study or research projects; medical reasons, including pregnancy, major surgery, and other health-related circumstances; and financial reasons, such as the necessity to work for a specified period to resume study with adequate resources. Petition forms are available at Administration 146.

Evaluation of petitions for leaves of absence takes into account the student's stated plans and the extent to which a leave would contribute to educational objectives. Students are expected to plan their time of return and their activities during the leave. They must also state why it is critical to remain in continuous residence. In the case of medical or financial leaves, they must state how they plan to remain current with or advance in their academic field.

Undergraduate students may request a leave for no fewer than 3 and no more than 8 quarters. Graduate students are granted a maximum of 4 quarters, subject to renewal. Continuing students' allowed absence of 2 quarters is included in these maximums.

Petitions must be filed at Administration 146 after action by the department/division/school chair or director (also the college graduate dean in the case of graduate students) no later than 3 weeks before the end of the quarter before the proposed leave. Approval entitles students to continuing status for registration purposes if they return no later than the quarter specified in their petition. Continuing students who return from a leave are entitled to priority registration privileges and are not required to file an application for readmission.

Undergraduate students retain current catalog requirements for graduation; classified postbaccalaureate and graduate students retain classified standing. Unclassified postbaccalaureate and conditionally classified graduate students who have an approved program on file in their college graduate studies office are subject to the conditions of those programs. All others are subject to the requirements in effect when they return.

Transcript of Academic Record

A transcript of Cal State L.A. course work is issued upon written request by the student. Transcript request forms are available at Administration 146, on the Cal State L.A. Web Page and on the GET website. The cost of a single transcript is \$4. When more than one transcript is ordered at the same time, the first copy costs \$4, the second through tenth copies cost \$2 each, and any copies in excess of ten cost \$1 each. The form requires the name used by the student while in attendance, the birth date, and the nine digit Campus Identification Number (CIN).

Copies normally are mailed one week after receipt of request. However, requests that specify inclusion of grades just earned or verification of a degree just awarded cannot be filled until two to three weeks after the end of the quarter.

Course Numbering System

Course Numbers

Subcollegiate, undergraduate, graduate, and noncredit courses are numbered as shown below.

000–099 Subcollegiate level (no credit allowed toward requirements for academic degrees).

100–299 Lower division courses (freshman and sophomore level).

300–399 Upper division courses (junior and senior level) that do not earn graduate credit.

400–499 Upper division courses (junior and senior level) that may earn graduate credit for graduate students.

500–599 Graduate courses for graduate students only.

600–699 Specialized graduate courses for postgraduate students matriculated in the joint Ph.D. program in Special Education.

700–749 Courses intended primarily for lower division students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

750–799 Courses intended primarily for upper division students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

800–899 Highly specialized courses intended primarily for graduate students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

900 Noncredit courses open to graduate students only. Courses in the 900 series (UNIV 900) are open only to graduate students who have previously enrolled in all allowable research units (597) and are not enrolled in any other credit-bearing courses or thesis or project units (599) but will use University facilities or consult with faculty.

Course Suffixes

Many course numbers have letter suffixes. Although many indicate special uses of the course within a particular department/division/school, some suffixes are standard throughout the University.

A, B, C, D, E A sequence of courses in which A must be taken before B, B before C, etc., unless description indicates otherwise.

C, K, S Sections of regular courses taught primarily in Cantonese (Chinese), Korean, or Spanish, usually as part of bilingual/crosscultural teacher training program. These suffixes appear in course listings in the *Schedule of Classes* and on transcripts, but not generally in the catalog.

H Open to students who are enrolled in the General Education Honors Program only.

IP Class taught in independently self-paced mode; hours arranged between student and instructor.

L Lecture.

M Open to students in Master of Fine Arts degree program in Art only.

N Upper division course intended for students not majoring in the department/division/school that offers it; usually has different kinds of prerequisites; student in major may not count course in major program, but may include it as an elective outside the major.

P Practicum, laboratory, or activity.

R Open to conditionally classified graduate students only.

Course Prerequisites and Corequisites

Students are responsible for fulfilling prerequisites and corequisites. The instructor and department/division/school have the authority to waive specific prerequisites and/or corequisites for students who have completed equivalent courses at another institution, who have had equivalent experience (such as work experience), or who possess the requisite skills to proceed with the work of the course. Students should consult the instructor before registering to determine whether the course(s) or experience they present will justify waiver of the stated prerequisite(s) and/or corequisite(s).

Course Abbreviations

Each academic discipline has an official course abbreviation that is used to identify the discipline in this catalog; on grade reports, transcripts, major program sheets, and many other documents; and in the Schedule of Classes. These course abbreviations, which are listed below, must be used on all program change forms.

Accounting	ACCT
Anthropology	ANTH
Arabic	ARAB
Armenian	ARM
Art	ART
Arts and Letters	AL
Asian and Asian-American Studies	AAAS
Astronomy	ASTR
Athletics	ATHL
Biology	BIOL
Business Administration (interdepartmental)	BUS
Chemistry	CHEM
Chicano Studies	CHS

Child Development	CHDV
Chinese	CHIN
Civil Engineering	CE
Classics	CLAS
Communication Disorders	COMD
Communication Studies	COMS
Communication (undergraduate and graduate courses)	COMM
Computer Information Systems	CIS
Computer Science	CS
Counseling	COUN
Criminal Justice	CRIM
Curriculum and Instruction	EDCI
Dance	DANC
Economics	ECON
Education (interdivisional)	EDUC
Educational Administration	EDAD
Educational Foundations	EDFN
Electrical Engineering	EE
Elementary Education	EDEL
Engineering (interdepartmental)	ENGR
English	ENGL
Finance	FIN
Food Science and Technology	FST
French	FREN
Geography	GEOG
Geology	GEOL
German	GERM
Health and Human Services	HHS
Higher Education	EDHI
History	HIST
Honors College	HNRS
Instructional Technology	EDIT
Intercultural Proficiency	ICP
Italian	ITAL
Japanese	JAPN
Journalism	JOUR
Kinesiology	KIN
Korean	KOR
Latin	LATN
Latin American Studies	LAS
Liberal Studies	LBS
Library Science	LIBR
Management	MGMT
Marketing	MKT
Mass Communication	MSCM
Mathematics	MATH
Mechanical Engineering	ME
Microbiology	MICR
Modern Languages	ML
Multimedia	MM
Music	MUS
Natural and Social Science	NSS
Natural Science	NATS
Nursing	NURS
Nutritional Science	NTRS
Pan-African Studies	PAS
Philosophy	PHIL
Physical Science	PSCI
Physics	PHYS
Political Science	POLS
Portuguese	PORT
Psychology	PSY
Public Health	PH
Religious Studies	RELS
Russian	RUSS

Secondary Education	EDSE
Social Work	SW
Sociology	SOC
Spanish	SPAN
Special Education	EDSP
Teaching English to Speakers of Other Languages	TESL
Technology	TECH
Television, Film and Media Studies	TVF
Thai	THAI
Theatre Arts	TA
Theatre Arts and Dance	TAD
University	UNIV
Urban Analysis	URBA
Urban Learning	ULRN
Vietnamese	VIET
Women's Studies	WOMN
Youth Agency Administration	YAA

Grading System

Undergraduate Grades

TRADITIONAL A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F.	Letters A, A-, B+, B, B-, C+, C, C-, D+, D, and D- indicate passing grades; F indicates failure.
NONTRADITIONAL CR/NC or A, A-, B+, B, B-, C+, C.	A, A-, B+, B, B-, C+, C, and CR indicate passing grades. CR, indicating passed with credit, is given for work equivalent to C or better for undergraduate students. NC, indicating no credit, is given for work equivalent to C-, D+, D, D- or F for undergraduate students.

*Graduate and Postbaccalaureate Grades**

TRADITIONAL A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F.	Letters A, A-, B+, B, B-, C+, and C indicate passing grades; letters C-, D+, D, D-, and F indicate failure.
NONTRADITIONAL CR/NC	CR, indicating passed with credit, is given for work taken by graduate and postbaccalaureate students, including 400-level courses, that is equivalent to B or better. NC, indicating no credit, is given for work equivalent to B-, C+, C, C-, D+, D, D-, or F, for postbaccalaureate and graduate students A course in which a postbaccalaureate or graduate student earns a grade below B- must be repeated; grades from both the original course and the repeated course are used in computing the grade point average.

Note:

Effective Fall Quarter 1996, the campus implemented a plus/minus grading policy. Thus, for all continuing students and all students admitted or readmitted to the University, Fall Quarter 1996 or later, plus/minus grades are calculated in both undergraduate and graduate grade point calculations.

*Graduate students are required to maintain a GPA of 3.0 to remain in good standing. Thus, grades of B- or lower will accrue deficiency points because they are below a 3.0 GPA. Grades of C- and below are failing grades for a graduate student, and no credit is given.

Students who accrue deficiency points with grades of B- and below, including failing grades, will be required to compensate for those deficiencies by attaining grades higher than B in a comparable number of units. Courses with failing grades of C- and below must be repeated for credit; courses with grades of B-, C+, and C receive credit and may not be repeated.

*Explanation of Undergraduate Course Grades**

Grade Symbol	Explanation	Grade Points
A	Superior Attainment of Course Objectives	4.0
A-	Outstanding Attainment of Course Objectives	3.7
B+	Very Good Attainment of Course Objectives	3.3
B	Good Attainment of Course Objectives	3.0
B-	Better than Average Attainment of Course Objectives	2.7
C+	Above Average Attainment of Course Objectives	2.3
C	Average Attainment of Course Objectives	2.0
C-	Below Average Attainment of Course Objectives	1.7
D+	Weak Attainment of Course Objectives	1.3
D	Poor Attainment of Course Objectives	1.0
D-	Barely Passing of Course Objectives	0.7
F	Nonattainment of Course Objectives	0.0

CR	Credit	not applicable
NC	No Credit	not applicable
I	Incomplete Authorized	not applicable
IC	Incomplete Charged	0
WU	Withdrawal Unauthorized	0
RP	Report in Progress	not applicable
W	Withdrawal	not applicable
RD	Report Delayed	not applicable

**Note: A grade of C- is a failing grade in all General Education Basic Subject courses because a minimum C grade is required in all of these courses.
A C- is also a failing grade if a student takes a course CR/NC or A, B, C, NC. In addition, a grade of C- is a failing grade in all courses in majors that require minimum C grades.**

**These explanations do not apply to graduate courses. Graduate students are advised to read carefully the previous table (Graduate and Postbaccalaureate Grades).*

Definitions of Administrative Grading Symbols

Marks other than letter grades used to indicate status in courses undertaken have the following meanings:

CR is used to denote “**passed with credit**” when no traditional letter grade is given, is assigned to undergraduate grades of C (grade point 2.0 or higher) or better and to graduate grades of B (grade point 3.0 or higher) or better. CR grades are not included in the calculation of the grade point average.

NC is used to denote “**no credit**” when no traditional letter grade is given, is assigned to undergraduate grades lower than C (grade point lower than 2.0) and to graduate grades lower than B (grade point lower than 3.0). NC grades are not included in the calculation of the grade point average.

RP (Report in Progress) is used for thesis, project, dissertation, and similar approved courses in which assigned work frequently extends beyond one academic term—and may include enrollment in more than one term. The RP indicates that the student’s performance has been evaluated and found to be satisfactory but that further work must be completed before a final grade (or grades) can properly be assigned for any part of the course.

Enrollment for more units of credit than the total number of units that can be applied toward the fulfillment of the student’s educational objective is prohibited. The RP symbol shall be replaced with the appropriate final grade within one year of its assignment except for courses associated with the master’s degree thesis (courses numbered 597, 598, 599, and 900) and with the doctoral dissertation (courses numbered 698 and 699) in which case the time limit shall be five years. An RP does not add earned units and does not affect grade point average calculations.

An RP that has not been replaced by a final grade within the prescribed time limit for the course shall be changed to NC. Extensions of time to remove RP grades may be granted by the Curriculum Subcommittee (for undergraduate courses) or the appropriate College Graduate Dean (for graduate courses) for contingencies such as—but not limited to—military service and health problems of an incapacitating nature verified by a physician’s statement.

W (Withdrawal) indicates that a student was permitted to drop a course after the “no-record drop” deadline with the approval of the instructor and the department/division/school chair or director. The W carries no connotation of quality of student performance and is not used in calculating grade point averages.

RD (Report Delayed) this symbol is used exclusively by the Registrar when a delay in the reporting of a grade is caused by circumstances that are **beyond the student’s control**. The symbol does not imply any academic evaluation. Any “RD” grade must be cleared before the degree can be awarded. Once the degree has been posted, no grade changes can be made to the record.

I (Incomplete) is an interim grade designed for students who are passing but who through extenuating circumstances have not been able to complete a portion of the work required for the course. An Incomplete grade shall be assigned at the discretion of the faculty member only when the faculty member concludes that a clearly identifiable portion of course requirements cannot be met within the academic term for unforeseen reasons. An Incomplete shall not be assigned when it is necessary for the student to attend a major portion of the class when it is next offered. An Incomplete is also prohibited where the normal practice requires extension of course requirements beyond the close of the term, e.g., thesis or project type courses. In such cases, the use of the “RP” symbol is required.

A student may not re-enroll in a course for which he or she has received an “I” until that “I” has been converted to a grade other than “I”; e.g., A-F, IC.

It is the responsibility of the student to request a grade of Incomplete from the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete.

The conditions for removal of the Incomplete including due date shall be specified in writing by the instructor and given to the student with a copy placed on file with the appropriate campus officer until the Incomplete is removed or the time limit for removal has passed. This “Incomplete Grade Agreement” must specify the outstanding course requirements and the final grade to be given based on the evaluation of the outstanding work. This time limitation applies whether or not the student maintains continuous attendance.

An Incomplete grade may be removed by completing the outstanding work by the date specified on the Incomplete Grade Agreement which shall be within one calendar year after the end of the quarter in which the Incomplete grade was assigned. An Incomplete that is made up within the time period allowed will be replaced on the student’s permanent academic record by the letter grade earned followed by an indication that the original grade was an Incomplete and the date that the Incomplete was removed.

Where department policy requires assignment of final grades on the basis of multiple demonstrations of competency by the student, it may be appropriate for a faculty member to submit a letter grade to be assigned in the event the Incomplete is not made up within one year. If the Incomplete is not converted to a credit-bearing grade within the prescribed time limit, or any extension thereof, it shall be counted as a failing grade in calculating grade point average and progress points unless the faculty member has assigned another grade in accordance with campus policy. An Incomplete shall be converted to the appropriate grade or symbol within one year following the end of the term during which it was assigned. However an extension of the one-year time limit may be granted by petition for contingencies such as intervening military service or serious health or personal problems. Any petition for extension of time to remove an Incomplete must be filed within one calendar year immediately after the end of the quarter in which it was assigned. A petition must include documentation establishing the reasons the course could not be completed prior to the expiration of the initial one year period. Petitions must be signed by the course instructor with an indication whether the instructor recommends the petition be

approved or denied. The final decision regarding extension of Incomplete grades rests with the Deans of Graduate or Undergraduate Studies, as appropriate.

An Incomplete that is not removed within the time period allowed will appear on the student's permanent academic record as an "Incomplete Charged" (see next).

IC (Incomplete Charged) indicates that an Incomplete has not been removed within the time period allowed and the grade for that course will appear on the student's permanent academic record as an "Incomplete Charged" and will be counted as an F in grade point average calculations, unless the student was enrolled on a credit/no credit basis, in which case the default grade will be a grade of No Credit (NC). An Incomplete that is not removed before the degree is awarded will be charged as an F in the grade point average calculations. Upon expiration of an Incomplete grade, unless the instructor has submitted a letter grade to be assigned upon expiration of the Incomplete, the student's permanent academic record will be modified to reflect the number of units attempted and zero units earned.

WU (Unauthorized Withdrawal) indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average this symbol is equivalent to an F.

Nontraditional Grading Options

Undergraduates may choose to receive grades on a nontraditional basis, either *A, B, C, NC, or CR/NC*, under specified conditions. Some courses are graded only nontraditionally, as shown in course descriptions. In addition, students in good standing who have completed at least 12 units at Cal State L.A. and students admitted with upper division standing may elect to have some courses graded on either the traditional or the nontraditional basis. *CR* and *NC* grades are not included in grade point average computations.

CR/NC Option. Courses for which a student may not elect to be graded on a *CR/NC* basis are those courses required in the student's major, minor, or credential program and other courses selected to meet general education requirements. A maximum of 45 quarter units may be graded *CR/NC*, whether elected or designated. A maximum of 8 quarter units elected *CR/NC* may be taken in any single quarter.

A, B, C/NC Option. Courses for which a student may not elect to be graded *A, B, C/NC* are those required in the student's major, minor, or credential program; however, any general education or elective course may be taken with *A, B, C/NC* grading. A maximum of 45 quarter units within the total degree program may be graded *A, B, C, NC*, whether elected or designated.

Students may elect to register for a course with a nontraditional grading option up to the last date in the quarter to add classes. **The decision to elect an option is irrevocable.** Academic standards are identical for all students who are enrolled in a course, irrespective of the grading option.

Instructors are not notified that students have elected nontraditional grading options in their courses; traditional grades are reported and are converted as needed to *CR* or *NC* by the Registrar.

Scholastic Status of Undergraduate Students

Grades Required for Credit

Students are advised that they receive no credit for any course in which they do not earn a grade of *D-* or higher.

Grade Point Average Requirements

Undergraduate students are expected to maintain a *C* (2.0) average in all courses attempted at Cal State L.A. and any other college or university attended and to make satisfactory progress toward their academic objectives. Students who receive financial aid should inform themselves of additional criteria defining satisfactory progress by consulting the Center for Student Financial Aid.

Grade Point Average

The grade point average (GPA) is computed by dividing the total number of grade points earned by the total number of units attempted. Grade points are assigned for each unit of course work undertaken, as indicated in the Explanation of Undergraduate Course Grades table above. *CR* and *NC* grades are not included in grade point average computations.

Probation for Undergraduate Students

Probation is determined separately for academic and administrative-academic deficiencies. Students' probation status is indicated on their class grades for the term viewable online in GET under Academic Standing.

Administrative-Academic Probation

The Office of the Chancellor has made provision whereby students may be placed on administrative-academic probation for any of the following reasons:

- Withdrawal from all or a substantial portion of courses for which they registered in two successive quarters or in any three quarters.
- Repeated failure to progress toward a stated degree or program objective when such failure is within their control.
- Failure to comply, after due notice, with a routine academic requirement or regulation.

Written notice is given of the conditions required for removal from administrative-academic probation, as well as circumstances that would lead to disqualification if probation is not rectified.

Academic Probation

Students are placed on academic probation at the end of a quarter if either their grade point average at Cal State L.A. or their cumulative grade point average in all college work attempted falls below *C* (2.0). They are continued on academic probation until their Cal State L.A. and cumulative grade point average is 2.0 or higher or until they are disqualified in accordance with the regulations for academic disqualification.

Disqualification of Undergraduate Students

Disqualification is determined separately for academic and administrative-academic deficiencies. Students' disqualification status is indicated on their grade report.

Academic Disqualification

Students already on probation or special probation whose Cal State L.A. or cumulative grade point average reaches the following levels are disqualified:

<u>Class Level</u>	<u>Grade Point Average</u>
Freshman (0–44 units completed)	<1.50
Sophomores (45-89 units completed)	<1.70
Juniors (90–134 units completed)	<1.85
Seniors (135+ units completed)	<1.95

Administrative-Academic Disqualification

The Office of the Chancellor has made provision whereby students placed on administrative-academic probation may be disqualified for any of the following reasons:

- The conditions for removal of administrative-academic probation are not met within the period specified.
- Students become subject to academic probation while on administrative-academic probation.
- Students become subject to a new administrative-academic probation period for the same or similar reasons of a previous probationary period, although not currently in such status.

Notification of Disqualification

Students' notices of disqualification appear on their unofficial transcript in GET. Students who wish to appeal their disqualification should refer to Immediate Reinstatement below. Disqualified students are required to arrange an exit interview with their academic adviser to establish readmission requirements. Undeclared majors will hold this exit interview with their assigned adviser in the University Academic Advisement Center.

Special Probation

Continuing student who have been disqualified may petition to remain as matriculated students on special probation. To be eligible for special probation, disqualified students must complete the disqualification interview with their academic advisor and obtain the advisor's approval. The advisor must specify on the special probation petition the terms and conditions under which the student will be eligible to be returned to and to remain in matriculated status, such as courses to be repeated, courses to be completed, GPA requirements, and any required workshops and/or tutoring.

A student's initial petition for special probation must be approved by the appropriate department chair, division chair, school director or the director of the Academic Advisement Center. Subsequent petitions for special probation must be approved as well by the appropriate college or university dean for that student. Students' approved special probation petitions must be received in enrollment services by the deadline specified in the Schedule of Classes.

All disqualified students who are placed on special probation are required to earn **better** than a C (2.0) grade point average each quarter until their grade point average is increased to a level that is higher than that which would normally cause them to be disqualified according to their class level, at which time they would be switched from special probation to probation.

Readmission of Disqualified Students

Students who are not eligible for or are denied special probation may petition for readmission. Readmission after disqualification is not automatic. Disqualified students will not be considered for readmission until at least two quarters have elapsed. Students will be eligible for readmission when they have satisfied the terms and conditions established during the disqualification interview as documented in the student's file by the academic advisor, provided that they meet or exceed the following minimum Cal State L.A. and cumulative grade point averages for their class level when they apply:

<u>Class Level</u>	<u>Grade Point Average</u>
Freshmen (0-44 units completed).....	1.50
Sophomores (45-89 units completed).....	1.70
Juniors (90-134 units completed).....	1.85
Seniors (135+ units completed).....	1.95

Units earned elsewhere while under disqualification can be used to raise the cumulative grade point average above the minimum required for admission. However, any deficiency in the Cal State L.A. grade point average may only be corrected by completing Cal State L.A. courses through Open University or special sessions offered by Extended Education. Students who have not previously been placed on special probation and whose grade point averages do not meet these minimum criteria may be considered for readmission with special probation with the approval of their college dean.

Students who wish to request readmission must provide evidence to their advisor that they have met the terms and conditions specified in their disqualification interview, including official transcripts of all transfer work attempted since disqualification. Advisors who support the request for readmission must specify on the petition for readmission a plan for attaining good academic standing. Students requesting readmission must obtain approval for readmission from the department, division, or school and the college from which they were disqualified. The University Academic Advisement Center and the Office of Undergraduate Studies will rule on petitions for readmission of disqualified students with undeclared majors.

Disqualified students must file their application for readmission to the University before the appropriate admissions deadline.

Students who are enrolled but not officially reinstated for the quarter after disqualification should file a request for complete withdrawal and full refund of fees by the end of the third week of the quarter. Official withdrawal and refund application forms are available at Administration 146. Complete withdrawal may also be accomplished by writing to the Registrar's Office. Registration will be cancelled for disqualified students who are enrolled and do not file a withdrawal request; fees are not returned in these cases.

Disenrollment for Failure to Complete Required Subcollegiate Courses

Executive Order 665 requires that all first-time entering students in the California State University system who are not exempt from the English Placement Test (EPT) and the Entry Level Math (ELM) exam take these exams before enrolling in any courses and, if remediation is required, enroll in appropriate English and/or math course(s) in their first quarter of attendance. The policy stipulates that students must continue to enroll in appropriate level course(s) each quarter until they are eligible for college level English and/or math. Students have three consecutive academic quarters, starting with their first quarter at Cal State L.A., to complete these requirements. In addition, campus policy requires that students move directly into their

college level English and/or math course(s) the first quarter they enroll after completing the remedial course(s) in that field.

Scholastic Status of Graduate and Postbaccalaureate Students

Grades Required for Credit

Graduate students are advised that they receive no credit for any course in which they do not earn a grade of C or higher. Grades of C– and below are considered failing grades in all graduate programs.

Grade Point Requirements

Graduate students are expected to maintain a B (3.0) average in all courses attempted at Cal State L.A. and any other college or university attended and to make satisfactory progress toward their academic objectives. Students who receive financial aid should inform themselves of additional criteria defining satisfactory progress by consulting the Center for Student Financial Aid.

Postbaccalaureate students are expected to maintain a 2.5 average in all courses attempted at Cal State L.A. and any other college or university attended and to make satisfactory progress toward their academic objectives.

Grade Point Average

The grade point average (GPA) is computed by dividing the total number of grade points earned by the total number of units taken for GPA. Grade points are assigned for each unit of course work undertaken, as indicated in the Explanation of Grades table below.

Thus, students who earn a grade of C in a 4-unit course have 4 grade points fewer than the number they would have earned with a grade of B and are, therefore, deficient 4 grade points from a B average (–4 grade points). Students who earn an A grade in a 4-unit course have four grade points more than they would have earned with a B grade (+4 grade points). The overall grade point deficiency or surplus can be computed by assigning the number of plus or minus grade points for each unit attempted and adding algebraically. CR and NC grades are not included in grade point average computations.

Grade Symbol	Explanation	Grade Points Earned
A	Superior	4.0 per unit value of course
A-	Very Good	3.7 per unit value of course
B+	Better Than Average	3.3 per unit value of course
B	Satisfactory/Average	3.0 per unit value of course
B-	Unsatisfactory	2.7 per unit value of course
C+	Unsatisfactory	2.3 per unit value of course
C	Unsatisfactory	2.0 per unit value of course
C-	Failing	1.7 per unit value of course
D+	Failing	1.3 per unit value of course
D	Failing	1.0 per unit value of course
D-	Failing	0.7 per unit value of course
F	Failing	0.0 per unit value of course

Academic Probation for Postbaccalaureate and Graduate Students

Postbaccalaureate and graduate students are subject to academic probation if their grade point average falls below the levels specified below either in course work on their master's degree program or in all units completed after becoming classified, whether or not the course work is taken at Cal State L.A.

- Classified and conditionally classified graduate students are expected to maintain a b (3.0) grade point average in course work on their master's degree program and in all courses completed after admission to the program.
- Postbaccalaureate classified and postbaccalaureate unclassified students are expected to maintain a 2.5 grade point average in all course work taken after admission to Cal State L.A., whether or not the course work is taken at Cal State L.A.

Administrative-Academic Probation.

The Office of the Chancellor has made provision whereby students may be placed on administrative-academic probation for any of the following reasons:

- Withdrawal from all or a substantial portion of courses for which they registered in two successive quarters or in any three quarters.
- Repeated failure to progress toward a stated degree or program objective when such failure is within their control.
- Failure to comply, after due notice, with a routine academic requirement or regulation.

Notice is given in writing of the conditions for removal from administrative-academic probation, as well as circumstances that would lead to disqualification should probation conditions not be rectified.

Disqualification Regulations for Postbaccalaureate and Graduate Students

Postbaccalaureate and graduate students who are on academic probation and who do not meet the requirements of their probation are subject to disqualification in accordance with the following guidelines:

- Classified and conditionally classified graduate students who are on academic probation are subject to disqualification from pursuing the master's degree program in which they were classified if after being placed on scholastic probation they do not raise their average to B (3.0) after completion of 16 units or two quarters in residence, whichever comes later.
- Classified and conditionally classified graduate students whose grade point average falls more than nine grade points below B (3.0) will be disqualified from pursuing the master's degree program in which they were classified.

- Students who are disqualified from a master's degree program may not reenter that program. They may be admitted to another program only on the recommendation of the new major department/division concerned and with the approval of the appropriate college graduate dean.
- Postbaccalaureate classified and postbaccalaureate unclassified students who are on academic probation are subject to disqualification from pursuing course work at Cal State L.A. IF they do not raise their average to 2.5 after completion of 16 units or two quarters in residence, whichever comes later.
- All units earned in the quarter in which the sixteenth unit is completed will be used in computing the grade point average.
- Students disqualified for scholarship deficiency may not enroll in any regular quarter at Cal State L.A. without permission from the appropriate college graduate dean and may be denied admission to other educational programs operated or sponsored by the campus.
- Students who are enrolled in graduate degree programs, credential programs, and postbaccalaureate credit certificate programs are not eligible for Academic Renewal.
- Postbaccalaureate students who are pursuing a second or subsequent baccalaureate are subject to the same probation and disqualification standards as seniors. These are outlined in the Procedures and Regulations section near the front of this catalog.

The Office of the Chancellor has made provision whereby postbaccalaureate and graduate students who are on academic-administrative probation may be disqualified for any of the following reasons:

- The conditions for removal of administrative-academic probation are not met within the period specified.
- Students become subject to academic probation while on administrative-academic probation.
- Students become subject to a new administrative-academic probation period for the same or similar reasons of a previous probationary period, although not currently in such status.

Student Conduct: Rights and Responsibilities

Standards for Student Conduct

The University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and to contribute positively to student and university life.

Student behavior that is not consistent with the Student Conduct Code (Subsection 41301 of Title 5, *California Code of Regulations*) is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. Reports of student misconduct should be directed to the Judicial Affairs Officer in the Student Affairs Building, Room 117. Please refer to Appendix E in the University Catalog for a detailed list of the grounds upon which student discipline can be based. Copies of the Student Conduct Code (aka Standards for Student Conduct) and the Student Conduct Procedures (CSU Executive Order 1043), which govern enforcement of these regulations, are also available in the Student Affairs Building, Room 117 or online at <http://www.calstatela.edu/univ/stuaffrs/jao/>

Academic Honesty

The University in its quest for truth and knowledge embraces honesty and integrity. These fundamental values must not be compromised. The trust and respect among professors, students and the society need to be vigilantly protected. Cheating and plagiarism can be neither justified nor condoned as this would destroy the ideals and purposes of higher education. Students enter the University to gain the knowledge and tools necessary for participation in society. Academic integrity is one foundation for a society based on trust and honesty. Therefore, the University takes seriously its responsibility for academic honesty.

The following are included as violations of the Academic Honesty Policy (See Appendix D in the University Catalog):

- **Cheating**-the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means.
- **Plagiarism**-the act of using ideas, words, or work of another person or persons as if they were one's own, without giving proper credit to the original sources.
- **Misrepresentation**-Knowingly furnishing false academic information to a University official, faculty member, or campus office.
- **Collusion**-Any student who intentionally helps another student perform any of the above acts of cheating, plagiarism or misrepresentation.

Academic Consequences:

Faculty have the right to establish the standards by which the academic performance of students will be evaluated, including the consequences of students not meeting some portion or all of the academic requirements of a course through acts of cheating, plagiarism, misrepresentation or collusion. These consequences may include but are not limited to assigning a lowered grade, zero or "F" on an individual assignment, or lowering the student's grade or assigning an "F" in the course. Faculty may alternatively permit the student to repeat an assignment/test or complete and submit additional assignments.

Administrative Sanctions:

Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage also violate the Student Conduct Code (Subsection 41301 of *Title 5, California Code of Regulations*). To that end, violations of the Academic Honesty Policy should also be reported to the Judicial Affairs Officer. The University can impose administrative sanctions in addition to academic consequences. As stipulated in Executive Order 1043, Student Conduct Procedures, among other places, cheating, plagiarism, misrepresentation or collusion, in connection with an academic program or campus may warrant, but is not necessarily limited to Disciplinary Probation, Suspension or Expulsion. Repeat offenders will receive particular consideration for administrative sanctions. Please note that a record of all disciplinary charges, including cheating and plagiarism, will be maintained in the Judicial Affairs Office for a minimum of five years. Disciplinary files are separate from academic files and subject to disclosure to third parties by prior written consent of the student, or a court ordered subpoena.

Reporting Procedures:

When satisfied that a reasonable evidentiary standard has been met and as soon as possible after discovering the alleged violation, the faculty member should arrange an office conference in order to inform the student of the allegations and the intended academic consequences of the violations. At the conference, the student should be informed of the supporting evidence, the intended consequences and the Academic Honesty Policy.

In the event that the student disputes the findings of academic dishonesty, he or she shall be given the opportunity to respond (orally or in writing). The faculty member must consider any information or evidence that the student presents during or after the conference, and determine whether or not such information or evidence mitigates or refutes the charge of academic dishonesty. In every case, the student shall have 10 days beyond the date of the conference to respond to the allegations, before a report is made to the University Judicial Affairs Office (as outlined in section III-3 of the Academic Honesty Policy).

Appeal Procedures:

At the conference, the student should also be informed of the University's Grade Appeals/Academic Grievance Policy. Under that policy, the student may appeal the determination that he or she has committed academic dishonesty, the academic consequences stemming from such a determination or the administrative sanctions.

Please refer to the Academic Honesty Policy and the Grade Appeals/Academic Grievance Policy for complete procedures and details. Copies of these policies are available in the Student Affairs Building, Room 117 or online at: <http://www.calstatela.edu/univ/stuaffrs/jao/>

Grade Appeals/Academic Grievances

Students wishing to appeal a course grade or other academic decision should refer to the Grade Appeals/Academic Grievance Policy. The purpose of this policy is to establish fair and equitable means by which matriculated students may appeal assigned course grades and other academic decisions.

Non-Academic grievances filed by matriculated students should follow the procedures outlined in the Student Grievance Procedures.

Please refer to the Grade Appeals/Academic Grievances Policy for complete procedures and details. Copies of this policy are available in Student Affairs, Room 117 or online at: <http://www.calstatela.edu/univ/stuaffrs/jao/>

Non-Academic Student Grievances

A grievance is a formal complaint by a student arising from an alleged unauthorized or unjustified act or decision by a member of the faculty, staff, and/or management employee which adversely affects the status, rights, or privileges of a student. Student Grievance Procedures have been established to provide safeguards that protect the rights of all concerned parties and insure that grievances are handled fairly. These procedures are one channel for solving problems; however, they should not take the place of negotiating in good faith or open, honest communication.

To that end, students are expected to attempt to resolve the dispute informally before filing a formal grievance. The procedures and timelines for informal resolution are outlined in the Student Grievance Procedures. In the event that they are not able to resolve the matter informally, students may file a formal grievance to be considered by the University Student Grievance Committee (USGC). The formal grievance should be submitted to the Judicial Affairs Officer, located in the Student Affairs Building, Room 117.

Please refer to Appendix I in the University Catalog for a copy of the official Student Grievance Procedures. Copies of this policy are also available in Student Affairs, Room 117 or online at: <http://www.calstatela.edu/univ/stuaffrs/jao/>

Student Rights and Responsibilities

The Statement of Student Rights and Responsibilities enumerates the rights guaranteed to, and the responsibilities of, all Cal State L.A. students. These include, but are not limited to Academic Advisement, Freedom of Expression, Academic Evaluation, Instructional Practice, Writing and Plagiarism, Access to Official Records and Information, Freedom of Information, Freedom of Access to Higher Education and Freedom of Association.

Please refer to Appendix J in the University Catalog for a copy of the official Statement of Student Rights and Responsibilities. Copies of this document are also available in the Student Affairs Building, Room 117 or online at: <http://www.calstatela.edu/univ/stuaffrs/jao/>

Policy on the Prohibition of Sexual Harassment

California State University, Los Angeles, will take action to prevent and eliminate sexual harassment, as mandated by Chancellor's Executive Order No. 927.

Sexual harassment is conduct subject to disciplinary action, including termination. Sexual harassment* includes but is not limited to:

- Unwanted sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature.
- Any act that contributes to a workplace or learning environment that is hostile, intimidating, offensive, or adverse to persons because of the sexual nature of the conduct.
- Conditioning an act, decision, evaluation, or recommendation on the submission to or tolerance of any act of a sexual nature.

Although this policy focuses on the treatment of persons lacking or holding lesser authority by persons possessing greater authority, it does not preclude the possibility that sexual harassment may also be perpetrated by persons lacking or holding lesser authority, e.g., employees, students, or applicants. In determining whether conduct constitutes sexual harassment, the circumstances surrounding the conduct are considered.

The prohibition against sexual harassment applies to all transactions of University business, whether on or off campus.

Individuals with supervisory authority are responsible for reporting a formal complaint about sexual harassment to the Office for Equity and Diversity. Failure to do so may lead to appropriate administrative action.

Specific rules and procedures for reporting charges of sexual harassment and for pursuing available remedies are available in the following locations: Office for Human Resources Management, Office for Equity and Diversity; Office of the Vice President for Student Affairs; University Counseling Center; and Women's Resource Center.

For questions about sexual harassment, please contact the Office for Equity and Diversity, Administration 606, (323) 343- 3040.

**The parameters of "sexual harassment" are legally defined by State and Federal statutes and Court decisions. While the policy set forth above describes actions, which fall generally within the scope of "sexual harassment," all CSU employees and students are required to conduct themselves in a manner that avoids sexual harassment as defined by State and Federal law.*

SEXUAL HARASSMENT COMPLAINT:

If you feel you have experienced sexual harassment, please make your concern known. You may file a complaint with the Office for Equity and Diversity located in Administration 606 or contact the Office at (323) 343-3040. All complaints of alleged sexual harassment are investigated according to guidelines established in Executive Order 1045, see [Appendix L – CSU Systemwide Discrimination Policy](#) for detailed information.

Your concerns will be investigated promptly, thoroughly, and objectively. If corrective action is appropriate, it will be taken. No action will be taken against you for filing your complaint, so long as you believe the complaint to be valid.

Campus Nonviolence Policy

California State University, Los Angeles is committed to creating and maintaining a working, learning, and social environment for all members of the University community that is free from violence.

Civility, understanding, and mutual respect toward all members of the University community are intrinsic to excellence in teaching and learning, to the existence of a safe and healthful workplace, and to maintenance of a campus culture and environment that serves the needs of its many constituencies. Threats of violence or acts of violence not only impact the individuals concerned, but also the mission of the University to foster higher education through open dialogue and the free exchange of ideas. The University prohibits and will take decisive action to eliminate verbal harassment, violent acts, threats of violence, or any other behavior that by intent, action, or outcome harms another person. Such conduct is subject to disciplinary action up to and including dismissal from employment, expulsion from the University, or civil or criminal prosecution as appropriate.

The University has no tolerance for violence against and by members of the University community. To fulfill this policy, the University will work to prevent violence from occurring and will ensure that federal and state laws, as well as University regulations prohibiting violence, are fully enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered.

Established University faculty, staff, and student and Department of Public Safety procedures will serve as mechanisms for resolving situations of violence or threats of violence. Each allegation of violence or threat of violence will be taken seriously. Individuals are encouraged to report acts of violence, threats of violence, or any other behavior that by intent, act or outcome harms another person.

Approved by the Cal State L.A. Academic Senate and President James M. Rosser - Summer 1996

Compliance with Americans with Disabilities Act (ADA)

California State University, Los Angeles, does not permit discrimination on the basis of disability in admission to, access to, or operation of its instruction, programs, services, or activities, or in its hiring and employment practices. Also, the University does not permit harassment based on a protected disability. In addition, the University does not permit discrimination or harassment based on an applicant's, employee's, or student's relationship with or association with anyone with a known protected disability.

Upon request, the University will consider reasonable accommodation(s) when needed to facilitate the participation of persons with protected disabilities. Reasonable accommodations will be considered to permit individuals with protected disabilities to: (a) complete the admission/ employment process; (b) perform essential job functions; (c) participate in instruction, programs, services or activities; and, (d) enjoy other benefits and privileges of similarly-situated individuals without disabilities.

Questions, concerns, complaints and requests for reasonable accommodation or additional information may be forwarded to the Office for Equity and Diversity, the campus office assigned responsibility for compliance with the ADA. The Office for Equity and Diversity is located in Administration 606 and is open Monday through Friday, 8:00 a.m. to 5:00 p.m., (323) 343-3040, or TDD: (323) 343-3670.

Familiarity with the institution's rules and regulations published in this catalog shall be the responsibility of each student and faculty member, and of those administrators concerned with academic matters.

ADA Complaint

If you feel you have experienced discrimination or harassment due to your protected disability in connection with your association with the University, please make your concerns known. You may file a complaint with the Office for Equity and Diversity, located in Administration 606. All complaints of discrimination based on a student's disability status, including denial of reasonable accommodation are investigated under the guidelines of Executive Order 1045, see [Appendix L – CSU Systemwide Discrimination Policy](#) for detailed information.

Your concerns will be treated carefully, and investigated promptly, thoroughly, and objectively. If corrective action is appropriate, it will be taken. No action will be taken against you for filing your complaint, so long as you believe the complaint to be valid.

Nondiscrimination Statement

California State University, Los Angeles, affirms its commitment to equality of opportunity for all individuals. This commitment requires that no discrimination shall occur in any program or activity of the University on the basis of race, color, religious creed, national origin, sex, ancestry, physical disability (including HIV and AIDS), mental disability, medical condition, pregnancy, age (over 40), marital status; political affiliation, sexual orientation, disabled veteran's status, recently separated veteran, armed forces services medal veteran and other protected veteran, or any other classification that precludes a person from consideration as an individual. Further, the University's commitment requires that no retaliation shall occur because an individual filed a complaint of discrimination or in some other way opposed discriminatory practices, or participated in an investigation related to such a complaint. This policy is in accord with Title VII of the Civil Rights Act of 1964, as amended, Title IX of the Educational Amendments of 1972, as amended, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, the Vietnam Era Veterans' Readjustment Act of 1974, and related administrative regulations and executive orders. Inquiries concerning the application of Title IX, Sections 503 and 504, and other nondiscrimination laws may be referred to the Office for Equity and Diversity (Telephone: [323] 343-3040), the campus office assigned the administrative responsibility of reviewing such matters. Title IX inquiries may also be directed to the Regional Director of the Office for Civil Rights, Region IX, Old Federal Building, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

Discrimination Complaint

If you feel you have experienced discrimination or harassment due to race, color, religion, national origin, sex, sexual orientation, gender identification, marital status, pregnancy, age, disability, or veteran status in connection with your association with the University, please make your concerns known. You may file a complaint with the Office for Equity and Diversity, located in Administration 606. All complaints of discrimination, harassment and retaliation are investigated under the guidelines of Executive Order 1045, see [Appendix L – CSU Systemwide Discrimination Policy](#) for detailed information.

Your concerns will be treated carefully and be investigated promptly, thoroughly, and objectively. If corrective action is appropriate, it will be taken. No action will be taken against you for filing your complaint, so long as you believe the complaint to be valid.

Consensual Sexual Relations between Faculty and Students*

(Senate: 7/29/97; President: 12/4/97)

"Sexual relations between students and faculty members with whom they also have an academic or evaluative relationship are fraught with the potential for exploitation. The respect and trust accorded a professor by a student, as well as the power exercised by the professor in an academic or evaluative role, make voluntary consent by the student suspect. Even when both parties initially have consented, the development of a sexual

relationship renders both the faculty member and the institution vulnerable to possible later allegations of sexual harassment in light of the significant power differential that exists between faculty members and students."

"In their relationships with students, members of the faculty are expected to be aware of their professional responsibilities and avoid apparent or actual conflict of interest, favoritism, or bias."

It is unprofessional conduct for a faculty member to engage in any sexual relationship with a student while he or she is enrolled in that faculty member's class, or if a faculty member is acting in any other capacity that may directly affect the student's academic career.

Failure to follow these standards will be grounds for investigation for disciplinary action.

**the language in quotation marks is the statement that was adopted by the 81st annual meeting of A.A.U.P.*

Student Use of Human Subjects or Animals

Students, like all others in the University community, must follow established University and federal guidelines when using human subjects or animals either in research or as part of a course activity. Prior approval by either the Institutional Review Board for research involving human subjects or the Institutional Animal Care and Use Committee for research involving animals must be obtained. The committees meet at regularly scheduled times and it is crucial to give notice of the impending research or course use as far in advance as possible.

For further information, please contact the Office of Research and Development (323) 343-3978 or visit its Website at www.calstatela.edu/academic/aa/orad/.

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the new Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation is available from the International Office (323) 343-3170.

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** When calling from off campus, dial area code 323, prefix 343, and the four-digit extension; from on campus, dial 3 and the four-digit extension.
* Because of construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.

<i>Department/Division/School/Program</i>	<i>Program Coordinator Department/Division Chair</i>	<i>Location*</i>	<i>Extension**</i>
Academic Affairs			
Provost and Vice President	Ashish Vaidya	Adm 713	3-3800
Associate Vice President for Academic Affairs	Cheryl Ney	Adm 710	3-3820
Dean, Graduate Studies	Laurence Fritz	Adm 710	3-3820
Associate Dean	Karin Elliott-Brown	Adm 710	3-3820
Director of Research and Development	Jason Shiotsugu		
Assistant Vice President for Academic Affairs - Academic Personnel	Philip S. LaPolt	Adm 707	3-3810
Director, Institutional Research	Mark Pavelchak	Adm 702	3-2730
Associate Director, Institutional Research	Dmitry Suspitsyn	Adm 702	3-2730
Dean, Undergraduate Studies	Jun Xing	Adm 725	3-3830
Associate Dean	Steven Jones	Adm 725	3-3830
Director, University Academic Advisement Center	Marcia Murota	Lib S 1040A	3-3150
Director, University Testing Center	Susan McEvoy	Lib PW 2089	3-5100
Director, University Tutorial Center	Howard Masuda	Lib S 1062A	3-3971
Director, University Writing Center	Lise Buranen (<i>Acting</i>)	Lib S 2097	3-5350
College of Arts and Letters			
Dean	Peter McAllister	MUS 228	3-4001
Associate Dean	Lena Chao-Benedict	MUS 231	3-4004
Art	Mika Cho	FA 328	3-4013
Communication Studies	David Olsen	MUS 104	3-4200
English	James Garrett	E&T A604	3-4290
Liberal Studies (<i>interdisciplinary program</i>)	Patrick Sharp	E&T A405	3-4100
Modern Languages and Literatures	Maria Dolores Costa	KH D1054	3-4272
Music, Theatre, and Dance	John Kennedy	MUS 127	3-4060
Philosophy	Kayley Vernallis	E&T A432	3-4947
Television, Film, & Media Studies	John Ramirez	MUS 245	3-4207
College of Business and Economics			
Dean	James A. Goodrich	ST F124	3-2800
Associate Dean	Edward W. T. Hsieh (Interim)	ST F124	3-2800
Director, Student Services	(Vacant)	SH C256B	3-5262
Advisement Center - Undergraduate	(Vacant)	SH C256B	3-5262
Advisement Center - Graduate	(Vacant)	SH C256B	3-5156
Accounting	Kathryn Hansen	SH C256B	3-5156
Economics and Statistics	Miles Finney	ST F517	3-2830
Finance and Law	James Refalo	ST F717	3-2846
Health Care Management (program)	Stephen McGuire	ST F517	3-2890

Information Systems Management	Nanda Ganesan	ST F603	3-2978
Management	Angela Young	ST F717	3-2892
Marketing	Tyrone Jackson	ST F908	3-2970

Charter College of Education

Dean	Eunsook Hyun	KH D2069	3-4300
Associate Dean	Diane Fazzi	KH D2070	3-4303
Applied and Advanced Studies in Education	Anne Hafner	KH C2098	3-4332
Curriculum and Instruction	Gay Yuen	KH C2097	3-4353
Special Education and Counseling	Andrea Zetlin (Acting)	KH C1064	3-4400

College of Engineering, Computer Science, and Technology

Dean	Emily L. Allen	E&T A236	3-4500
Associate Dean	Benjamin Lee (Acting)	E&T A236	3-4510
Civil Engineering	Rupa Purasinghe	E&T A212	3-4450
Computer Science	Raj Pamula	E&T A324	3-6690
Electrical and Computer Engineering	Fred Daneshgaran	E&T A341	3-4470
Mechanical Engineering	Darrell Guillaume	E&T A205	3-4490
Technology	Keith Mew	E&T A337	3-4550

College of Extended Studies and International Programs

Dean	Justin Casity (Interim)	GE 211	3-4907
Assistant to the Dean	Wendy Torres (Interim)	GE 211	3-3608
Fiscal Resource Manager	Christina Luu	GE 216	3-4909
Assistant Dean	Justin Casity	GE 211	3-4912
Assistant to Assistant Dean	(Vacant)	GE 211	3-4907
Marketing and Graphic Design	Linda Thome-Loera	GE 216	3-4969

Enrollment Services

Manager	Jean Cruz	GE 211	3-4900
Registration Support	Jerri Shean	GE 211	3-5913
Registration Support	Malyna Hak	GE 211	3-5577

Extended Education Programs

Manager, Extension Programs	Jeff Brandt	GE 217	3-4847
Associate Director, Academic Programs	Joann Edmond	GE 216	3-4919
Coordinator	Robin Hall	GE 214	3-4967
Coordinator	Alice Gutierrez	GE 214	3-4916
Coordinator	Piers Armstrong	GE 211	3-4917

International Office

Director	Amy Wang	SA 115	3-3173
Study Abroad Adviser	Jennifer Amaya	SA 115	3-3169
Immigration Counselor	Jessie Shin	SA 115	3-3167

English Language Program

Director	Aaron B. W. Ostrom	GE 211	3-4840
Student Services Coordinator	Becky Bishop	GE 211	3-4845

College of Health and Human Services

Dean	Beatrice Yorker	FA 130	3-4600
Associate Dean	Farrell Webb	FA 130	3-4600
Child and Family Studies	Rita Ledesma	E&T A535	3-4590
Communication Disorders	Edward Klein	KH B119	3-4690
Criminal Justice and Criminalistics	Denise Herz	HDFC244	3-4625
Kinesiology and Nutritional Science	Nazareth Khodiguian	PE 206	3-4650
Nursing	Cynthia Hughes	ST F417	3-4700
Public Health	Walter Zelman	ST F302	3-4740
Social Work	Dale Weaver	STF 816	3-4680
Robert L. Douglass Speech-Language and Cal State L.A. Hearing Clinics	Cari Flint	KH B119	3-4690

College of Natural and Social Sciences

Dean	James P. Henderson	KH D1052	3-2000
Associate Dean	Nancy McQueen(Acting)	KH D1051	3-2012
Anthropology	René Vellanoweth	KH C4068	3-2148

Asian and Asian American Studies (interdisciplinary program)	Ping Yao	KH C4069	3-5775
Biological Sciences	Robert Nissen	BIO 143	3-2050
Chemistry and Biochemistry	Robert Vellanoweth	BS 336	3-2300
Chicano Studies	David Diaz	KH C4069	3-2190
Geosciences and Environment	Hengchun Ye	KH C4067	3-2220
History	Cheryl Koos	KH C4066	3-2020
Latin American Studies (interdisciplinary program)	Beth Baker-Cristales	KH B3006	3-2180
Mathematics	Grant Fraser	ST F206	3-2150
Pan-African Studies	Melina Abdullah	KH C3095	3-2290
Physics and Astronomy	Oscar Bernal	PS 315	3-2100
Political Science	Greg Andranovich	E&T A524	3-2230
Psychology	Sengi Hu	KH C3103	3-2250
Sociology	Gretchen Petterson	KH C3093	3-2200

Honors College

Director	Michelle Hawley	KH D1045	3-5969
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Preprofessional Advisement

Health Science Programs (Premedical, pre dental, (preveterinary, prepharmacy, etc.)	Robert Nissen	Bio 258	3-2070
Prelegal Programs			
Department of Finance and Law	Maria Boss	ST F717	3-2870
Department of Philosophy	Kayley Vernallis/David Pitt	E&T A432	3-4180
Department of Political Science	Scott Bowman	E&T A526	3-2248
Department of Sociology	Elaine A. Draper	KHA3047	3-2299
Pre-Physical Therapy Advisement	Ray De Leon	BS 310A	3-4855

University Library

University Librarian	Alice Kawakami	Lib N B537B	3-3954
Associate University Librarian	Marla Peppers	Lib N B529A	3-3929

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*** Because of construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.**

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Accounting (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400- level ACCT courses.

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of graduate adviser

• ACCT 202 - Survey of Accounting

(4)

Fundamentals of accounting theory and practice; how accounting serves the individual, the business entity, and the broader disciplines of law, government, and economics.

• ACCT 210 - Principles of Financial Accounting

(4)

Introduction to financial accounting. Accounting cycle and preparation of financial statements. Overview of Generally Accepted Accounting Principles.

Some sections may be technologically mediated.

• ACCT 211 - Principles of Managerial Accounting

(4)

Prerequisite: ACCT 210. Cost terms, cost behavior and cost systems. Use of accounting data for planning, budgeting, and control. Some sections may be technologically mediated.

• ACCT 310 - Accounting Information for Decision Making

(4)

Prerequisites: ACCT 211. Use of financial and managerial accounting information to plan, analyze, control, evaluate, and improve the activities of a firm. Some sections may be technologically mediated.

• ACCT 320A - Intermediate Financial Accounting and Reporting I

(4)

Prerequisite: ACCT 210, 211, or ACCT 500 with minimum C grades. Accounting theory and practice relating to problems of asset valuation and classification in accounts and statements.

• **ACCT 320B - Intermediate Financial Accounting and Reporting II**

(4)

Prerequisites: ACCT 320A with minimum C grade, FIN 303. Valuation and classification of liabilities and stockholders' equity; study of selected contemporary accounting issues.

• **ACCT 321 - Taxation of Individuals**

(4)

Prerequisites: Acct 320A with a minimum C grade. Statutes, regulations, administrative rulings, and court decisions relating to federal and California income taxation of individuals.

• **ACCT 322 - Cost Accounting**

(4)

Prerequisite: ACCT 211 and 320A with minimum C grades. Cost accounting as a tool in modern organizations; covers budgets, cost estimation, cost allocations, sales variance analysis, cost systems, capital budgeting, and performance measurement and evaluation

• **ACCT 325 - Leadership and Professional Skills for Accountants**

(4)

Prerequisites: ACCT 320A and BUS 305. Through practice and multiple assessments, focuses on development and mastery of leadership and professional skills for the accounting profession: creative and critical thinking; managing conflict; delegating; and communicating.

• **ACCT 420 - Advanced Financial Accounting and Reporting**

(4)

Prerequisites: ACCT 320B. Problems associated with the preparation of consolidated financial statements; accounting for deferred taxes, pensions and other postretirement benefits, earnings per share, stock options, and partnerships. Some sections of this course may be technologically mediated.

• **ACCT 421A - Taxation of Corporations and Partnerships**

(4)

Prerequisite: ACCT 321. Statutes, regulations, administrative rulings, and court decisions relating to federal and California income taxes of partnerships and corporations; procedural problems, tax management and planning; tax shelters. Restricted to undergraduate students.

• **ACCT 421C - State and Local Taxation**

(4)

Prerequisite: ACCT 321. Through cases and materials, focuses on state and local taxation of, and tax planning for, individuals and business entities, including state income, franchise, property and sales taxes; covers the interplay of multistate tax issues with federal constitutional limitations.

- **ACCT 421D - IRS' Volunteer Income Tax Assistance (VITA) Program**

(4)

Prerequisite: ACCT 321. This course provides students with the knowledge to complete actual income tax returns and experience in completing returns for individuals. Some sections of this course may be technologically mediated.

- **ACCT 424A - Accounting Information Systems**

(4)

Prerequisites: ACCT 320B and 325. Study of accounting information systems and internal controls; provides the tools necessary to understand and evaluate accounting information systems. Restricted to undergraduate students.

- **ACCT 424B - Auditing**

(4)

Prerequisite: ACCT 424A. Auditing concepts and practices involved in emphasis on financial auditing, review and assurance services with auditing of financial statements by professional accountants in public practice (CPAs). Restricted to undergraduate students.

- **ACCT 425 - International Accounting**

(4)

Prerequisite: ACCT 320B. This course is concerned with the development and use of international accounting and auditing standards in a global business environment. It covers comparative accounting systems, accounting for changing prices, foreign currency, financial reporting and disclosure issues, managerial accounting and control of multinationals.

- **ACCT 427 - Governmental and Institutional Accounting**

(4)

Prerequisites: ACCT 320B and 325. Principles and problems of fund accounting for governments and nonprofit institutions; budgets, revenues, expenditures, tax levies, appropriations, general fund, special funds, and financial reports; separate treatment of local, state, and federal government agencies.

- **ACCT 428A - Internal Auditing I**

(4)

Prerequisites: ACCT 325 and 424A Introduction to internal auditing, internal control, audit evidence, and the internal auditing process.

- **ACCT 434 - Professional Accounting Ethics (4)**

Prerequisites: ACCT-320B and ACCT 325. This course examines different theories of ethics in an accounting context. Accountants' and Auditors' Ethical Reasoning and Decision Process are examined along with the legal and regulatory obligations. The course emphasizes the need to make ethical decisions as preparers, auditors and users of the financial statements. Some sections of this course may be technologically mediated.

• **ACCT 435 - Forensic Accounting**

(4)

Recommended Prerequisite: ACCT 424B or equivalent course. The course teaches the nature of forensic accounting, financial statement fraud and misappropriation of assets - detection, investigation, and prevention. The course develops professional skills necessary to investigate, detect and prevent fraud. NOTE: Course restricted to Undergraduate Students only.

• **ACCT 436 - Advanced Forensic Accounting**

(4)

Prerequisites: Acct 424B. The course builds on the nature of forensic accounting, financial statement fraud, and misappropriation of assets - detection, investigation, and prevention. The course enhances students' professional skills by applying techniques necessary to investigate, detect, and prevent fraud through case studies and simulations.

• **ACCT 437 - Security Risk Management and Internal Controls**
(also listed as CIS 437)

(4)

Prerequisite: ACCT 424A for accounting students. Introduction to the information security risk management including internal controls, operations security, risk management and assessment, incident management and response, business continuity and disaster recovery planning, legal issues and ethics, information security program development.

• **ACCT 438 - Computer Forensics and Investigations**
(also listed as CIS 438)

(4)

Prerequisites: Acct 424A for accounting students. Introduction to selected techniques and tools for computer forensics and investigations. Topics include coverage of the latest technology. Hands-on activities are included, which allow students to practice skills as they are learned.

• **ACCT 454 - Special Topics in Accounting**

(1-4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisite. In-depth presentation and analyses of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

• **ACCT 495 - Case Studies in Accounting**

(4)

Prerequisites: ACCT 325, 424A, minimum of 8 units of accounting elective courses. Culminating assessment course for accounting students; teaches students how to apply the knowledge and skills they have learned in previous courses in solving real world case problems. Restricted to undergraduate students only.

Accounting (Graduate)

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of graduate adviser.

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses.

• **ACCT 500 - Financial and Managerial Accounting**

(4)

Accounting concepts and tools for business organizations; covers the accounting model, financial statements analysis, cost control and behavior, pricing, budgeting, and systems design. Some sections may be technologically mediated.

• **ACCT 520 - Management Accounting Theory**

(4)

Management control theory; covers design of various types of responsibility centers, strategies and strategic planning, performance measurement and management compensation from an accounting perspective. Some sections may be technologically mediated.

• **ACCT 521A - Taxation of Corporations and Partnerships**

(4)

Prerequisite: ACCT 321. Statutes, regulations, administrative rulings, and court decisions relating to federal and California income taxes of partnerships and corporations; procedural problems, tax management and planning; tax shelters. Independent research in corporation and partnership taxation. Some sections may be technologically mediated.

• **ACCT 521C - State and Local Taxation**

(4)

Prerequisite: Graduate standing and ACCT 586. Application of interstate income allocations; multi-state tax compact; separate apportionment accounting; foreign country sourced income; taxation of air transportation, mail order sales taxes, gross receipts taxes, highway taxes and the power to tax.

• **ACCT 521D - IRS' Volunteer Income Tax Assistance (VITA) Program**

(4)

Prerequisite: ACCT 321 or equivalent and graduate standing. This course provides students with the knowledge to complete actual income tax returns and experience in completing returns for individuals.

• **ACCT 522 - Seminar: Current Topics in Financial Reporting**

(4)

Objectives of financial statements, efficient capital markets, setting accounting policy, using accounting data, processing human information.

• **ACCT 523 - Seminar: Public Accounting**

(4)

Historical development of professions, audit function in relation to ethical and legal considerations, trends in new services for clients, the CPA firm, multinational practice, signposts of the future.

• **ACCT 524A - Accounting Information Systems**

(4)

Prerequisite: ACCT 320B. Study of accounting information systems and internal controls; provides the tools necessary to understand and evaluate accounting information systems. Independent research in accounting information systems.

- **ACCT 524B - Auditing**

(4)

Prerequisite: ACCT 424A or 524A. Auditing concepts and practices involved in financial auditing, review and assurance services; emphasis on auditing of financial statements by professional accountants in public practice (CPAs). Independent research in auditing.

- **ACCT 525 - International Accounting**

(4)

Prerequisite: Graduate standing. Selected analytical and policy issues underlying current developments in international accounting. Some sections maybe mediated using interactive technology.

- **ACCT 526 - Financial Accounting Theory**

(4)

Prerequisite: Graduate standing. Advanced analytical concepts implicit in contemporary accounting practice; current developments in accounting techniques; specific applications to major aspects of financial statements. Some sections maybe mediated using interactive technology.

- **ACCT 527 - Governmental and Institutional Accounting**

(4)

Prerequisites: Acct 320B or equivalent course and graduate standing. The course covers the principles and problems of fund accounting for state and local governments and non-profit organizations. The different funds used, financial statements, and unique issues facing state and local governments are covered. Also the funds and financial statements for non-profit organizations are introduced. Some sections may be technologically mediated.

- **ACCT 529 - Advanced Financial Accounting**

(4)

Prerequisites: ACCT 320B or equivalent and graduate standing. The course deals with advanced accounting topics and reporting issues. This course covers topics such as pension accounting, post-employment benefits, stockholders' equity accounting, earnings per share, deferred taxes and mergers and consolidations. Also covered are partnership issues. Some sections may be technologically mediated.

- **ACCT 534 - Professional Accounting Ethics**

(4)

Prerequisite: ACCT 320B or equivalent and graduate standing. This course examines different theories of ethics in an accounting context. Accountants' and Auditors' Ethical Reasoning and Decision Process are examined along with the legal and regulatory obligations. The course emphasizes the need to make ethical decisions as preparers and auditors of the financial statements.

- **ACCT 535 - Forensic Accounting**

(4)

Recommended Prerequisite: ACCT 424B or ACCT 524B; or equivalent course. The course teaches the nature of forensic accounting, financial statement fraud and misappropriation of assets - detection, investigation, and prevention. The course develops professional skills necessary to investigate, detect, and prevent fraud through extensive case studies and research projects. Independent research in forensic accounting.

ACCT 536 - Advanced Forensic Accounting

(4)

Prerequisite: ACCT 424B, or ACCT 524B or equivalent and graduate standing. The course builds on the nature of forensic accounting, financial statement fraud, and misappropriation of assets - detection, investigation, and prevention. The course enhances students' professional skills by applying techniques necessary to investigate, detect, and prevent fraud through case studies and simulations.

• ACCT 544A - Advanced Accounting Information Systems

(4)

Prerequisite: ACCT 424A, ACCT 524A or equivalent and graduate standing. This course focuses on the study of accounting information systems and internal controls. The course will provide the student with the tools necessary for designing, building, and evaluating accounting information systems. Independent research in accounting information systems is an integral part of this course.

• ACCT 544B - Advanced Auditing

(4)

Prerequisites: ACCT 424B, ACCT 524B or equivalent and graduate standing. This course examines advanced cases in auditing. Auditors' responsibilities to users and clients are addressed through the use of case studies and group projects. Challenging audit situations are discussed and the auditor's ethical obligations are also emphasized. Students are also trained to use audit software and electronic working papers.

• ACCT 554 - Special Topics in Accounting

(4)

Current topics of special interest in accounting as announced in Schedule of Classes. In-depth presentations and analyses of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

• ACCT 571 - Accounting for Healthcare Managers

(4)

Use of accounting information to understand and evaluate the performance/financial viability of healthcare organizations. Overview of management systems, including planning, costing, budgeting and control mechanisms.

• ACCT 575 - Leadership and Professional Skills for Accountants

(4)

Prerequisites: ACCT 320B or equivalent, GVAR, BUS 305 or equivalent and graduate standing. Through practice and multiple assessments, this course focuses on the knowledge and development of managerial skills needed to advance in the accounting profession. The skills emphasized in the course include: written and oral communication, critical thinking, problem solving, leadership, teamwork, managing change and conflict, negotiation, networking and delegating.

• ACCT 585 - Tax Theory and Business Applications

(4)

Prerequisite: ACCT 421A or 521A. Tax concepts and judicial doctrines inherent in federal tax law; effects of taxation of business organization, capital structure, policies, and operation. Some sections maybe mediated using interactive technology.

• ACCT 586 - Tax Research and Practice

(4)

Prerequisites: ACCT 421A or 521A, Graduate standing. Methodology of researching complex tax problems; tax planning; scope of activity, responsibility, and ethics of accountant in tax field. Some sections maybe mediated using interactive technology.

- **ACCT 587 - Taxation of Corporations and Shareholders**

(4)

Prerequisites: ACCT 421A or 521A, Graduate standing. Statutory, regulatory, and case material applicable to corporation tax including formation, stock redemptions, and liquidations; stock dividends and preferred stock bail outs; elections under subchapters; personal holding companies, accumulated earning tax; collapsible corporations. Some sections maybe mediated using interactive technology.

- **ACCT 588 - Seminar: International Taxation**

(4)

Prerequisite: Graduate standing and ACCT 586. Provides an overview of international taxation issues from a global perspective, taking into consideration both US and foreign taxation of foreign source income and foreign persons with US source income; planning for foreign operations and income tax treaties.

- **ACCT 590 - Seminar: Taxation of Property Transactions**

(4)

Prerequisite: ACCT 586 and graduate standing. Analyzes federal income taxation of capital assets, including definition and mechanics of capital transactions; property transactions including sales and exchanges; examination of the at risk and passive loss rules.

- **ACCT 591 - Seminar: Taxation of Partnerships and LLCs**

(4)

Prerequisite: ACCT 586 and graduate standing. Analyzes tax problems of the organization and operation of the partnerships and LLCs, including the treatment of distributions, withdrawal of a partner/shareholder/member during his/her lifetime, sales and exchanges of interests and dissolutions.

- **ACCT 592 - Seminar: Taxation of Estate and Gifts**

(4)

Prerequisite: ACCT 586 and graduate standing. Covers property includable in the gross estate; computation of the federal estate tax; practice and payment of the federal estate tax, transfers subject to the federal gift tax; federal gift tax exclusions and deductions; valuation of gifts and computation of the federal gift tax; the generation-skipping transfer tax; and actions for refund.

- **ACCT 593 - Seminar: Tax Procedures**

(4)

Prerequisites: Graduate standing, ACCT 586. Review the federal tax system and administrative determination of liability for tax with coverage of IRS procedures in areas, such as assessment, audit, settlement, collection, and liens.

- **ACCT 595 - Case Studies in Accounting**

(4)

Prerequisite: ACCT 424A or 524A. How to apply the knowledge and skills learned in previous courses to solve real world case problems. Independent research in accounting case studies.

Anthropology (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: ANTH 497

• **ANTH 230 - Language and Society**
ENGL 230

(4)

An introduction to linguistics as a social science. Exploration of the relationship of language to a variety of social issues including race, class, and gender.

GE D

• **ANTH 250 - Cultural Anthropology**

(4)

Exploration of the concept of culture, and its application to such topics as communication, political and economic systems, marriage and family, sex roles, and religion and their relevance to modern life.

GE D ; Approved diversity course

• **ANTH 260 - Physical Anthropology**

(4)

Evolution of the human species and our place in nature, emphasizing evolutionary theory, genetics, primate behavior and the fossil record.

GE B3

• **ANTH 270 - Introduction to Archaeology**

(4)

Introduction to world prehistory, examination of basic archaeological concepts, investigation of extinct cultures.

• **ANTH 300 - Evolutionary Perspectives on Emotions**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Scientific explanations of primate behavior are used as a model for understanding the evolution of human behavior and emotions.

GE Theme E

• **ANTH 310 - Evolutionary Perspectives on Gender**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Evolutionary perspectives on gender differences in emotions, behavior, and sexuality, utilizing data from primate studies, the brain, and human evolution.

GE Theme C

• **ANTH 315 - Evolutionary Perspectives on Violence**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Scientific studies of evolutionary theory, primate behavior, and the brain are used as a way of understanding the expression and evolution of violence and aggression in humans.

GE Theme B

• **ANTH 320 - Mesoamerican Civilization**
(also listed as ART/CHS/HIST/LAS 320)

(4)

This is an interdisciplinary course that critically examines Mesoamerica as a civilization, with an emphasis on art, archaeology, literature, and cultural history.

• **ANTH 335 - Maturity and Aging in Crosscultural Perspective**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block D. A cross-cultural examination of the cultural, social, and psychological aspects of aging and the roles of adults and the elderly in society.

GE Theme F ; Approved diversity course

• **ANTH 338 - Gender Roles in Crosscultural Perspectives**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block D. Cross-cultural comparison of gender role differences and statuses of men and women, past and present, among traditional and contemporary populations worldwide.

GE Theme C ; Approved diversity course

• **ANTH 355 - Cultural Evolution and Ancient Civilizations**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block D. Organization and development of human cultural and social systems. This course includes critical examinations of evolutionary theories, and case studies of complex societies of the old and new worlds.

GE Theme I

• **ANTH 361 - Race, Racism, and Human Variation**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Evaluation of cultural and environmental influences upon composition and distribution of human populations; consideration of the genetic basis for human variation and biological validity of race concept.

GE Theme H

• **ANTH 385 - Measurement of Human Difference**
(also listed as PHIL 385)

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Exploration of issues of diversity and justice through examination of popularized accounts of scientific research into human difference; topics include I.Q. testing and race, "innate" gender differences, and sexuality.

GE Theme H

• **ANTH 396 - Honors Thesis**

(1–3)

Prerequisite: Admission to honors program in Anthropology. Preparation of an honors thesis, under supervision of an adviser, acceptable to departmental honors committee. May be repeated to maximum of 6 units.

• **ANTH 401 - Comparative Cultures**

(4)

Prerequisite: ANTH 250. Principal culture types and their geographical distribution, application of cultural data to ethnological problems.

• **ANTH 404 - Peoples of South America**

(4)

Prerequisite: ANTH 250. Prehistoric, historic, and contemporary cultures of South America, with emphasis on sociological and ethnological principles of analysis and comparison.

• **ANTH 406 - Indians of North America**

(4)

Prerequisite: ANTH 250. Native peoples of North America north of Mexico, their origins, culture change after contact with Europeans.

• **ANTH 407 - Indians of California**

(4)

Prerequisite: ANTH 250. Native peoples of California, their origins, languages, and cultures.

• **ANTH 408 - Peasant Cultures of Middle America**

(4)

Prerequisite: ANTH 250. Pre-Spanish civilizations of Mexico and Central America, the conquest and colonial backgrounds of present-day peoples, contemporary societies and cultures of the area.

• **ANTH 413 - Peoples of Africa**

(4)

Prerequisite: ANTH 250. Historical and cultural backgrounds of traditional and contemporary societies of Africa south of the Sahara, Western and Asian influences, problems of social, economic, and political development.

• **ANTH 414 - Peoples of Asia**

(4)

Prerequisite: ANTH 250. Peoples and cultures of Asia; interrelationships of contemporary groups and dynamics of culture change. Emphasis alternates among four areas: Japan and Korea; South Asia; Southeast Asia; China. May be repeated until all areas of emphasis are covered.

ANTH 415 - Asian American Communities in Southern California
(also listed as AAAS 415)

(4)

The course examines the Asian American enclaves and communities in Southern California by exploring culture, ethnicity, solidarity, political economy, and resistance in their creation and maintenance of communities. Service learning option available.

• **ANTH 421 - Archaeology of North America**

(4)

Prerequisite: ANTH 250. Early peopling of North America and development of prehistoric cultures in New World north of Mexican high culture area.

• **ANTH 423 - Material Culture**

(4)

Prerequisite: ANTH 250. The analysis and interpretation of utilitarian and non-utilitarian artifacts in early and contemporary cultures.

• **ANTH 424 - Archaeological Research Techniques**

(6)

Prerequisites: ANTH 270 or 407 or 421; instructor consent. Instruction in recovery and interpretation of archaeological data. Lecture 4 hours, laboratory and field work 6 hours. May be repeated to maximum of 12 units.

• **ANTH 425 - Archaeology of the Old World**

(4)

Prerequisite: ANTH 250. Growth of culture from its earliest beginnings to emergence of great civilizations, utilizing concepts, methods, and data of archaeology.

• **ANTH 427 - Cultural Resources Management**

(4)

Prerequisite: ANTH 270, or 250, or 260. Introduction to the concepts, goals, procedures and legislative basis of cultural resource management and historic preservation. Includes consideration of environmental impacts to archaeological, historic, ethnic and Native American values.

• **ANTH 428 - Civilizations of Western Mesoamerica**

(4)

Prerequisite: ANTH 250 or ANTH 270 or consent of the instructor. This course covers Mesoamerican civilization, focusing particularly on the high cultures of Mexico (Olmec, Teotihuacan, Toltec, Aztec, cultures of Oaxaca) and traces ten millennia of development as revealed by archaeology.

• **ANTH 429 - Maya Civilization**

(4)

Prerequisite: ANTH 250 or ANTH 270 or consent of the instructor. This course covers Maya civilization as revealed by archaeology. Lowland and Highland cultures are studied, with emphasis on social, political, economic, religious systems, as well as aesthetic and intellectual achievements.

- **ANTH 430 - Social Organization**

(4)

Prerequisites: ANTH 250 or 401 or SOC 414 or 444; instructor consent. Systems of kinship and marriage, with reference to social control, religion, law, politics, and economic organization.

- **ANTH 432 - Anthropology of Wealth and Power**

(4)

Prerequisite: ANTH 250. Theoretical perspectives and comparative ethnographic analyses of political-economic systems of preindustrial societies ranging from bands through contemporary peasantry.

- **ANTH 433 - Urban Anthropology**

(4)

Prerequisite: ANTH 250. Introduction to urban anthropology, including its history, methods of research, and major schools of thought, highlighting the structuring of urban space and social relations in cities around the world.

- **ANTH 434 - Globalization and Cultural Change**

(4)

Prerequisite: ANTH 250. Anthropological theory and practice in the changing social, economic, and cultural conditions of the twenty-first century.

- **ANTH 435 - Culture and the Individual**

(4)

Prerequisite: ANTH 250. Exploration of conformity and deviance in society through the comparative study of personality formation in different cultural and subcultural settings.

- **ANTH 436 - Ethnicity and Nationalism**

(4)

Prerequisite: ANTH 250 or consent of the instructor. This course explores the origins and spread of nationalism, the national-state, and ethnicity as primary forces in the construction of social identities in the modern world.

- **ANTH 437 - Magic, Witchcraft, and Religion**

(4)

Prerequisite: ANTH 250. Investigation of the domain of the sacred and supernatural in both technologically primitive and advanced societies. Emphasis on magic, witchcraft, taboo, myth, ritual, belief systems, and religious symbols.

- **ANTH 440 - Applied Anthropology**

(4)

Prerequisite: ANTH 250 or consent of the instructor. This course covers the history and practice of applied cultural anthropology, including methods and ethics of applied anthropology and careers in applied anthropology.

- **ANTH 441 - Anthropology and Identity**

(4)

Prerequisite: ANTH 250 or consent of the instructor. This course explores the ways that people understand themselves to be a cultural collective and how they maintain a shared sense of identity.

- **ANTH 442 - Anthropology of Rights**

(4)

Prerequisite: ANTH 250 or consent of instructor. This course examines the roles of social justice and media in the development of concepts of indigenous, cultural, environmental and human rights.

- **ANTH 444 - Medical Anthropology**

(4)

Prerequisite: ANTH 250 or SOC 201 or 202. Health in sociocultural perspective; applying anthropological concepts and knowledge to an understanding of health.

- **ANTH 445 - Myth and Folklore**

(4)

Prerequisite: ANTH 250. Basic forms of folklore including myth, legend, tale, song, and custom in cultural context, with attention to their origin, transmission, performance, function, and meaning.

- **ANTH 446 - Anthropological Film**

(6)

Prerequisite: ANTH 250. Survey of films and approaches to film making in anthropology; methods of presenting data and theoretical analysis in film; practice in using film and videotape in field research. May be repeated to a maximum of 12 units with consent of instructor. Lecture 4 hours, laboratory 6 hours.....

- **ANTH 447 - Anthropology of Media**

(4)

Prerequisite: ANTH 250 or consent of the instructor. Introduction to media produced by Indigenous peoples, nonwestern local communities and grassroots activists, and exploration of the analytical frameworks used in anthropology for studying representational practices, subaltern transnational politics and media, global media culture, and cybersocieties.

- **ANTH 448 - Sexualities and Gender Diversity in Global Perspective
(also listed as WOMN 448)**

(4)

Prerequisite: ANTH 250 or consent of the instructor. This course examines the diversity of forms of sexuality and their relationship to gender constructs around the world, with a focus on non-Western societies.

• **ANTH 449 - Anthropology of Race and Racism**
(also listed as AAAS 449, CHS 449, and LAS 449)

(4)

This course examines the anthropological ideas of race, its emergence, and its relationship to the constructions of racism and racializations in comparative settings and in contemporary situations.

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Anthropology (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: ANTH 497

• ANTH 454L - Special Topics in Anthropology

(1-6)

Prerequisites: As needed for specific topic. Topics of special interest in anthropology, as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• ANTH 454P - Special Topics in Anthropology

(1-6)

Prerequisites: As needed for specific topic. Topics of special interest in anthropology, as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• ANTH 459 - Human Osteology

(4)

Prerequisite: ANTH 260 or BIOL 101 or 200A or consent of instructor. Introduction to the human skeleton and laboratory analysis of bone. Analyzing skeletal remains, determining age, sex, race, stature, pathology. Discussing human osteology in an anthropological context. Lecture 2 hours, Lab 4 hours.

• ANTH 460 - Human Evolution

(4)

Prerequisite: ANTH 260. Critical examination of fossil evidence for human evolution considering importance of cultural evolution. Emphasizes recent discoveries and controversial theories surrounding them.

• ANTH 462 - Human Ecology and Adaptation

(4)

Prerequisite: ANTH 260. Comparative study of the adaptations of diverse human populations to their environments.

• **ANTH 463 - Forensic Anthropology**

(4)

Prerequisite: Upper division standing or instructor approval. Introduction to forensic anthropology, techniques for recovery of skeletonized remains, analyzing skeletal remains, time since death, special techniques including DNA, facial reconstruction and photo superimposition, legal aspects of forensic anthropology.

• **ANTH 466 - Paleopathology**

(4)

Prerequisite: ANTH 260 or BIOL 200A or BIOL 200B or permission of instructor. Examination of skeletal disease in archaeological populations, the impact of infectious disease on political and social systems and the intersection between modern medical anthropology and the study of ancient remains.

• **ANTH 470 - Language and Culture** (also listed as ENGL 403)

(4)

Prerequisite: ANTH 250. Nature, origin, and evolution of language; survey of approaches and studies illustrating variations in the relation of habitual thought and behavior to language.

• **ANTH 471 - Introduction to Linguistics** (also listed as ENGL 400)

(4)

Prerequisite: Upper division standing. Descriptive and historical study of language; problems of data collection and techniques of analysis, linguistic structure, language classification, language families of the world, language in its sociocultural setting.

• **ANTH 472 - Linguistic Analysis**

(4)

Prerequisites: ANTH 471 (may be taken concurrently); 250 recommended. A problems course in anthropological techniques of phonemic and morphemic analysis; close reading of technical, descriptive literature; survey of phonological and grammatical systems of non-Indo-European languages.

• **ANTH 480 - Anthropological Methods and Techniques**

(6)

Prerequisites: ANTH 250; instructor consent. Introduction to methodology of anthropological research, including methods of ethnographic investigation, ethnological analysis, and logical processes of problem-solving. Lecture 4 hours, laboratory and field work 6 hours.

• **ANTH 481 - Academic Writing and Publishing**

(4)

Prerequisites: Upper division or graduate standing, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Introduction to conceptualizing, writing, revising, and publishing academic essays, books, and reviews in the social sciences.

- **ANTH 485 - Archaeological Analysis**

(6)

Prerequisites: ANTH 421 or 424 and consent of instructor. Introduction to the basic concepts, principles, goals, and methodologies of archaeological analysis and interpretation. May be repeated to a maximum of 12 units for credit. Lecture 4 hours, laboratory 6 hours.

- **ANTH 497 - History of Ethnological Theory**

(4)

Prerequisites: 16 units of anthropology and/or sociology, as approved by instructor. Historical survey and analysis of major schools of anthropological thought.

- **ANTH 499 - Undergraduate Directed Study**

(1–8)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and final report submitted. May be repeated to maximum of 8 units.

Anthropology (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: ANTH 497

Classified graduate standing is required for admission to all 500-level courses.

- **ANTH 501 - Seminar: Ethnography**

(4)

Prerequisites: Graduate standing in a social science major, instructor consent. Selected topics in major world areas, as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units for different areas.

- **ANTH 510A - Seminar: Anthropological Theory and Analysis**

(4)

Advanced consideration of problems involved in application of anthropological theory to cultural data; limitations of contemporary analytical methods.

- **ANTH 510B - Seminar: Anthropological Theory and Analysis**

(4)

Advanced consideration of problems involved in application of anthropological theory to cultural data; limitations of contemporary analytical methods.

- **ANTH 520 - Seminar: Archaeology**

(4)

Prerequisite: ANTH 421, 424, or 425. Archaeological theory, method, and relationship of archaeological materials to central problems of anthropology. May be repeated once for credit.

- **ANTH 521 - Development of Archaeological Theory**

(4)

Prerequisite: Graduate standing or instructor consent. Presents advanced consideration of the development of archaeological theory from a historical perspective.

- **ANTH 530 - Seminar: Social Organization**

(4)

Prerequisite: Classified graduate standing in anthropology. Problems and theories of contemporary social anthropology. May be repeated once for credit.

- **ANTH 560 - Seminar: Physical Anthropology**

(4)

Prerequisite ANTH 361 or 462. Problems and theories of contemporary physical anthropology. May be repeated once for credit.

- **ANTH 563 - Advanced Forensic Anthropology**

(4)

Prerequisites: Graduate standing and ANTH 459 and ANTH 463 and/or instructor approval. Advanced topics in forensic anthropology, including recovery techniques, analyzing skeletal remains, time since death, special techniques, facial reconstruction and photo superimposition, legal aspects of forensic anthropology. Lecture 3 hours, activity 2 hours.

- **ANTH 564 - Forensic Osteology**

(4)

Prerequisite: ANTH 459, 463 and 563 or consent of instructor. Advanced forensic anthropological study of human skeletal system, including identification of skeletal fragments, preparation and curation of human remains and relevant federal and California laws pertaining to human remains. Lecture 2 hours, Activity 4 hours.

- **ANTH 565 - Bioarchaeol**

(4)

Prerequisite: Graduate standing or instructor approval. Interpretation of prehistoric and historic human remains for disease, stress, injury and violence. Demographic history of once-living populations. Legal and ethical issues in the field.

- **ANTH 570 - Seminar: Language and Culture**

(4)

Prerequisite: Sixteen units of ANTH courses, including 470 or 471. Advanced study of concepts of language and culture; use of linguistic data and methods in anthropology; relationships between linguistic and nonlinguistic behavior; linguistic models. May be repeated for credit.

- **ANTH 580 - Methods in Ethnography**

(5)

Prerequisite: Classified graduate standing in anthropology. Advanced principles and methods concerned with ethnographic field work;

techniques of gathering, reporting, and interpreting field data relating to research problems and design. May be repeated once for credit. Lecture 3 hours, laboratory and field work 6 hours.

• **ANTH 594 - Seminar: Problems in Anthropology**

(4)

Prerequisite: Classified graduate standing in anthropology. Problems and theories of contemporary anthropology. May be repeated once for credit.

• **ANTH 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Master's Degree section of this chapter.

• **ANTH 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 8 units.

• **ANTH 599 - Thesis**

(1–3)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of thesis proposal prior to registration, completion of 24 units in their Master of Arts degree program as well as ANTH 481 and ANTH 510AB. Independent research resulting in a thesis. Must be repeated to total of 6 units. Graded CR/NC.

Applied and Advanced Studies in Education (Graduate)

Graduate Course

• **EDFN 551 - Action Research in Education**

(4)

This course explores Action Research as a critical, action-oriented inquiry designed to link with strategies of the change process. The site for change can be a classroom, a work site, an institution, etc. Action research is seen as a way to explore questions that arise in your own practice and/or school; it is seen as a new approach to knowledge generation, professional development, transformational learning and educational change.

• **EDFN 650 - Research Seminar: Special Topics on Research Methods for Education**

(2*)

Prerequisite: Admission to doctoral program or permission of instructor and Ed.D. program director. Research-oriented coverage of a single topic not contained in a regular course. May be repeated to a maximum of 8 semester units.

* Semester units

• EDFN 651 - Research Seminar: Special Topics in Educational Disciplines

(2*)

Prerequisite: Admission to doctoral program or permission of instructor and Ed.D. Program Director. Courses cover specific topics, current issues, and innovations related to an educational discipline that are not otherwise presented in a regular course. May be repeated to a maximum of 8 semester units.

* Semester units

• EDFN 699 - Doctoral Dissertation

(3*)

Prerequisite: Advancement to candidacy for Ed.D. degree. Continuous enrollment required while student is working on dissertation. May be repeated for credit. Graded Credit or No Credit.

* Semester units

Art (Undergraduate)

* There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

Upper division standing is prerequisite to enrollment in all upper division art courses. Students majoring or minoring in Art must have completed applicable lower division core courses or equivalents; students in other fields must have instructor consent.

400-level Courses

*There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes. All 400-level courses may be applied toward master's degree requirements except the following, ART 400, 401, 415, 499. (Art Education Option may apply ART 400)

• ART 101A - World Art

(4)

Survey of historical development of painting, sculpture, and architecture throughout the world. Survey of the historical development of world art including painting, sculpture, and architecture from the Paleolithic period to approximately 1000 CE.

C-ID *ARTH 110

*The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

GE C2

• ART 101B - World Art

(4)

Survey of historical development of painting, sculpture, and architecture throughout the world. Survey of the historical development of world art including painting, sculpture and architecture from approximately 1000 CE to 1500 CE.

GE C2

• ART 101C - World Art

(4)

Survey of historical development of painting, sculpture, and architecture throughout the world. 101A: Survey of the historical development of world art including painting, sculpture, and architecture from the Paleolithic period to approximately 1000 CE. 101B: Survey of the historical development of world art including painting, sculpture and architecture from approximately 1000 CE to 1500 CE. 101C: Survey of the historical development of world art including painting, sculpture, and architecture from 1500 CE to the present.

C-ID *ARTH 120

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE C2

• **ART 103 - Two-Dimensional Art Fundamentals**

(4)

Introduction to fundamental concepts, organizing principles and historical references of two-dimensional art. Studio projects develop a visual vocabulary of two-dimensional elements and relationships common to all forms of creative expression. Lecture 2 hours, activity 4 hours.

• **ART 106 - Apparel Construction I**

(3)

Clothing construction techniques, with emphasis on application of principles. Activity 6 hours.

• **ART 108 - Apparel Construction II**

(3)

Advanced processes of apparel construction and finishing. Application of couture techniques and methods. Activity 6 hours.

• **ART 109 - Three-Dimensional Art Fundamentals**

(4)

Introduction to fundamental concepts and history of three-dimensional form, as found in nature, sculpture, design and architecture. Studio projects explore expressive potential of three-dimensional forms using various materials and methods. Lecture 2 hours, activity 4 hours

• **ART 150 - Survey and Studio: Introduction to Sculpture**

(4)

Human development and the arts as experienced through sculpture; history, forms, functions, cultural survey, interrelationships and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours.

*C-ID ARTS 240

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE C2

• **ART 152 * - Survey and Studio: Introduction to Ceramics**

(4)

Human development and the arts as experienced through ceramics; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Students with disabilities unable to access the University ceramics lab in the Fine Arts building must request a reasonable accommodation from the Office for Students with Disabilities ideally two weeks in advance of the class start date. The Office for Students with Disabilities will coordinate with other University units to provide reasonable accommodations for

students who require assistance, including but not limited to accessing the kilns, potter's wheels, and sinks, plus providing any other equipment or assistance needed to participate in the class. Lecture 2 hours, activity 4 hours.

*C-ID ARTS 230

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE C2

• **ART 155 - Survey and Studio: Introduction to Painting**

(4)

Human development and the arts as experienced through painting; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours.

*C-ID ARTS 210

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE C2

• **ART 156 - Survey & Studio: Textiles and Apparel**

(4)

Human development and the arts as experienced through textiles and apparel; history, forms, functions, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours.

GE C2

• **ART 159 - Survey and Studio: Introduction to Drawing**

(4)

Human development and the arts as experienced through drawing; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours.

*C-ID ARTS 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE C2

• **ART 180 - Introduction to Computer Graphics I**

(3)

Introduction to and analysis of the uses of computer hardware and software in Art and Design; practical and creative applications. Activity 6 hours.

• **ART 181 - Introduction to Computer Graphics II**

(3)

Prerequisite: Art 180. Introduction to and analysis of the uses of interactive design and motion graphics software in Art and Design, including practical and creative applications. Activity 6 hours.

- **ART 202 - Textile Structures**

(4)

Introduction to fundamental concepts and techniques of fabric structure. Projects include exploration of basic woven and knit constructions. Lecture 2 hours, activity 4 hours.

- **ART 203 - Advanced Two-Dimensional Art Fundamentals**

(4)

Prerequisite: ART 103. Advanced study of the fundamental concepts, principles, and historical references of two-dimensional art with an emphasis on the creative process and development of individual artistic expression. Lecture 2 hours, activity 4 hours.

- **ART 204 - Fashion Design: Flat Pattern I**

(4)

Prerequisite: ART 106, 208, or instructor consent. Principles and techniques of pattern making, with emphasis on style development and fitting. Lecture 2 hours, activity 4 hours.

- **ART 206 - Fashion Merchandising Concepts**

(4)

Concepts, principles, and overview of fashion merchandising.

- **ART 208 - Textiles**

(4)

Fundamental study of fibers, yarns, fabrics, color, and finishes; emphasis on properties and performance in relation to selection, use, and care. Lecture 2 hours, activity 4 hours.

- **ART 209 - Perspectives on Art, Diversity, and World Culture**

(4)

Understanding diversity, identity, and power through comparisons of the forms, symbols, and meanings of visual art produced by groups and/or individuals of various cultures. Some sections may include a service learning option.

GE C2

- **ART 220 - Concept Development**

(3)

Prerequisites: ART 103, 159. Introduction to the processes, tools, and theories related to the development of visual and conceptual ideas for graphic design and visual communication. Activity 6 hours.

- **ART 237 - History of Design**

(4)

Historical survey of design and the design process, including an examination of artistic, cultural, social, and theoretical factors that influence design.

• **ART 240 - Art and Life Perspectives**

(4)

Comparative analyses of indigenous, blended, and industrialized socio-cultural groups' art forms and views of time, environment, birth, death, and ancestry, as these views are expressed through their visual art forms.

GE E ; Approved diversity course

• **ART 244A - Introduction to Life Composition**

(2)

Prerequisite: ART 159. Basic concepts of figure drawing and sculpting, exploration of form, structure, proportions of human figure; techniques as applied to visual expression. Activity 4 hours.

*C-ID ARTS 200

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **ART 244B - Introduction to Life Composition**

(2)

Prerequisite: ART 159. Basic concepts of figure drawing and sculpting, exploration of form, structure, proportions of human figure; techniques as applied to visual expression. Activity 4 hours.

*C-ID ARTS 200

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **ART 244C - Introduction to Life Composition**

(2)

Prerequisite: ART 159. Basic concepts of figure drawing and sculpting, exploration of form, structure, proportions of human figure; techniques as applied to visual expression. Activity 4 hours.

• **ART 254 L - Special Topics in Art**

(1–4)

Prerequisite: As needed for specific topic. Current topics of special interest, as announced in Schedule of Classes. May be repeated to maximum of 9 units.

• **ART 254P - Special Topics in Art**

(1–4)

Prerequisite: As needed for specific topic. Current topics of special interest, as announced in Schedule of Classes. May be repeated to

maximum of 9 units.

• **Art 280 - World Animation History**

(4)

Survey and analysis of diverse international animation practices, including the history, cultural influences and contemporary interpretations of animation.

• **ART 287* - Introduction to Photographic Processes**

(4)

Basic principles of black and white photography: tools, materials, techniques, and philosophies of photography as an expressive medium. Recommended that students furnish their own cameras. Lecture 2 hours, activity 4 hours.

*C-ID ARTS 260

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **ART 302 - Social Aspects of Fashion**

(4)

Prerequisite: GE social science requirement. Study of fashion from a sociological and psychological perspective with particular emphasis on the processes people use to associate apparel and appearance with certain meanings, and the social consequences of those meanings.

• **ART 303 - Three-Dimensional Design**

(4)

Prerequisites: ART 103, 109, 203. Theoretical, historical, and functional study of three-dimensional design for creative development. Studio projects explore a variety of materials, processes and technologies. Lecture 2 hours, activity 4 hours.

• **ART 304 - Fashion Design: Flat Pattern II**

(4)

Prerequisite: ART 204. Advanced fashion designing through the pattern methods. Lecture 2 hours, activity 4 hours.

• **ART 307* - Intermediate Ceramic Art**

(4)

Prerequisite: ART 152 or consent of instructor. Intermediate level study of ceramic art concepts, processes, and history. Development of concepts and techniques to achieve individual expression. Students with disabilities unable to access the University ceramics lab in the Fine Arts building must request a reasonable accommodation from the Office for Students with Disabilities ideally two weeks in advance of the class start date. The Office for Students with Disabilities will coordinate with other University units to provide reasonable accommodations for students who require assistance, including but not limited to accessing the kilns, potter's wheels, and sinks, plus providing any other equipment or assistance needed to participate in the class. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

• **ART 308 - Graphic Design I**

(4)

Prerequisites: ART 180, 220, 333. Introduction to fundamental concepts of graphic design theory and practice including strategy, concept, design and production for visual communication. Lecture 2 hours, activity 4 hours.

• **ART 313 - Letterform**

(4)

Prerequisites: ART 180, 203. Technical, theoretical and historical foundations of lettering and typographic form. Development of skills and methodology related to the professional use of letterforms in graphic communication. Lecture 2 hours, activity 4 hours.

• **ART 314 - Intermediate Sculpture**

(4)

Prerequisite: ART 150 or consent of instructor. Continued examination and development of creative approaches in sculpture concepts and processes. Exploration of varied materials as used in individual expression. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

• **ART 316 - Foundations of Art**

(4)

Exploration of historical and contemporary issues in the visual arts as related to philosophies, theories, and practices of teaching and learning in art. Includes field experiences. Lecture 3 1/2 hours; activity 1 hour.

• **ART 317 - Visual Arts in Urban Contexts**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Explorations of visual arts in different urban contexts. Comparisons of diverse groups of artists, urban art forums, and processes of achieving recognition and legitimacy. May include service learning (optional).

GE Theme D

• **ART 320 - Mesoamerican Civilization**

(also listed as ANTH/CHS/HIST/LAS 320)

(4)

This is an interdisciplinary course that critically examines Mesoamerica as a civilization, with an emphasis on art, archaeology, literature, and cultural history.

• **ART 322 - Interactive Design I**

(4)

Prerequisites: ART 181, 203, 220. The study of computer-based interactive and graphic interface design, including the effective organization and communication of ideas and information. Lecture 2 hours, activity 4 hours.

• **ART 323 - Perspective Drawing**

(4)

Study of perspective drawing and related methodologies to develop and communicate design concepts. Visualization of three-dimensional objects using one-point and two-point perspectives including shadows, slopes, and reflections. Lecture 2 hours, activity 4 hours.

- **ART 333 - Color Theory and Perception**

(4)

Prerequisite: ART 203. Intensive study of color theory and color perception. Lectures and studio projects examine the aesthetic, practical, optical, psychological, symbolic, historical and cultural aspects of color. Lecture 2 hours, activity 4 hours.

- **ART 338 - Textile Design**

(4)

Prerequisite: ART 103 or consent of instructor. Fundamental theories, concepts, and processes used for print textile design. Includes use of computer as a design tool. May include field trips. Lecture 2 hours, activity 4 hours.

- **ART 340 - Art Production Practicum**

(2)

Requires permission from the department. Application of processes, technologies, and theories related to specific art/design activity. Limited to 2 units per quarter. Meets 8 hours per week or by assignment. May be repeated to a maximum of 12 units for elective credit only. Graded ABC/NC

- **ART 356 - Written Expression in Visual Arts**

(4)

Prerequisite: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Study and practice in forms of writing pertaining to art including theory, criticism, and historical research and analysis.

- **ART 362 - Textile and Apparel Analysis**

(4)

Prerequisite: Art 208. Basic principles of textile and apparel analysis and evaluation, manufacturing specifications and processes.

- **ART 364 - Intermediate Drawing**

(4)

Prerequisite: ART 159 or consent of instructor. Historical study in composition with diversified subjects. Comprehensive drawings in line, value and shape. Lecture 2 hours, activity 4 hours.

- **ART 374 - Intermediate Painting**

(4)

Prerequisite: ART 155. Continued study of history, styles and content in painting with emphasis on development of individual concepts. Lecture 2 hours, activity 4 hours.

- **ART 376 - Story and Visualization (4)**

Prerequisites: ART 103, ART 159. Introduction to visual storytelling and content development in preparation for animation projects. Research and exploration of visualization techniques, using imaginative approaches to develop character, narrative and storyboard creativity. Lecture 2

hours, activity 4 hours.

- **ART 377* - Intermediate Photography**

(4)

Prerequisite: ART 287. Development of individual creative approaches and philosophies in photography as well as strengthening of controls and techniques of black and white processes. Camera recommended. Lecture 2 hours, activity 4 hours.

- **ART 378 - Art and Motion**

(4)

Prerequisite: ART 280 Application of a variety of analog and digital animation approaches that focus on the essential art of time and movement. Lecture 2 hours, activity 4 hours.

- **ART 380 - Two-Dimensional Animation**

(4)

Prerequisites: ART 180, ART 280, ART 378. Production of two-dimensional animated projects, using digital and drawing techniques, as well as other two-dimensional animation methods. Lecture 2 hours, activity 4 hours.

- **ART 381 - Experimental Animation (4)**

Prerequisites: ART 280, ART 378. Production and practice of non-narrative animation approaches and techniques, with a focus on animation that originates from color, texture; and material experimentation. Lecture 2 hours, activity 4 hours.

- **ART 382 - Computers in Fashion Merchandising**

(4)

Prerequisites: Art 206. Introductory computer course. Computers in art and design. Applications for apparel manufacturing, retailing, and promotion which include descriptions, functions, visual problem solving, and computer technology in the global marketplace. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

- **ART 383 - Digital Modeling**

(4)

Prerequisite: ART 180. Use of three-dimensional digital modeling methods to create sculptural content and objects interpreted from direct observation. Creative texturing, lighting and surfacing methods are explored. Lecture 2 hours, activity 4 hours.

- **ART 384 - Computers in Fashion Design**

(4)

Prerequisite: Art 204. Introductory computer course. Computers in art and design. Manipulation and integration of two and three dimensional objects for problem solving using computer applications for apparel design. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

• **ART 386 - Computers in Textiles**

(4)

Prerequisite: Art 208, Introductory computer course. Computers in art and design. Information and specific computer applications for the textiles industry, including weaving and knitting technology and surface design. May include field trips. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

• **ART 387* - Color Photography**

(4)

Prerequisite: ART 377 or consent of instructor. Introduction to color films and papers; work with properties of color films and producing prints from color materials. Lecture 2 hours, activity 4 hours.

• **ART 388 - Illustration**

(4)

Prerequisites: ART 159, 203, 244AB. Study of the theoretical, historical and practical aspects of illustration with an emphasis on composition and drawing and painting techniques using various media. Lecture 2 hours, activity 4 hours.

• **ART 390 - Art and Design in the Community**

(4)

Prerequisite: Upper division standing or instructor consent. Art and design in public places, the organization of public space and community identity. Participation in collaborative activities utilizing art and design skills in service to the community. May be repeated to a maximum of 8 units. Lecture 2 hours, activity 4 hours.

• **ART 398 - Cooperative Education**

(see UNIV 398)

(1-8)

Cooperative Education

• **ART 400* - Elementary Classroom Visual Art**

(3)

Exploration and integration of creative expression, artistic perception, historical-cultural contexts, and aesthetic valuing as components of teaching visual art in the elementary classroom. Meets four hours per week. Some sections include service learning.

*There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

All 400-level courses may be applied toward master's degree requirements except the following, ART 400, 401, 499. (Art Education Option may apply ART 400)

• **ART 401 - Proseminar: Critical Theories in Visual Arts**

(3)

Prerequisites: ART 101A or 101C; 426; senior standing as Art major or recommendation of department. Systematic approach to art theory, criticism, and evaluation within the visual arts; development of independent critical and artistic viewpoints with regard to creation of art forms.

. ART 402 - Advanced Color Photography

(4)

Prerequisite: ART 387 or consent of instructor. Advanced techniques, theories, history of color photography; student production of comprehensive body of work utilizing color processes. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

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HELP

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Art (Undergraduate)

* There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

Upper division standing is prerequisite to enrollment in all upper division art courses. Students majoring or minoring in Art must have completed applicable lower division core courses or equivalents; students in other fields must have instructor consent.

400-level Courses

*There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes. All 400-level courses may be applied toward master's degree requirements except the following, ART 400, 401, 415, 499. (Art Education Option may apply ART 400)

• ART 406 - Ancient Near Eastern Art and Archaeology

(4)

Art and archaeology of ancient Mesopotamia, Egypt, Crete, and Greece. Principal monuments of architecture, sculpture, and the applied arts.

• ART 408 - Graphic Design II

(4)

Prerequisite: ART 308, 313. Advanced theory and practice of graphic design using visual communication processes and technologies. Project planning and development through study and application of professional practices. Lecture 2 hours, activity 4 hours. May be repeated to maximum 8 units.

• ART 411 - Greek and Roman Art

(4)

Art of Greece, its development in Hellenistic and Roman times, and the Etruscan influences.

• ART 412* - Advanced Ceramic Art

(4)

Prerequisite: ART 307. Advanced techniques, concepts, analysis, and history of ceramic art. Student productions of ceramic art using varied methods and approaches. Students with disabilities unable to access the University ceramics lab in the Fine Arts building must request a reasonable accommodation from the Office for Students with Disabilities ideally two weeks in advance of the class start date. The Office for Students with Disabilities will coordinate with other University units to provide reasonable accommodations for students who require

assistance, including but not limited to accessing the kilns, potter's wheels, and sinks, plus providing any other equipment or assistance needed to participate in the class. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 413 - Typography I**

(4)

Prerequisite: ART 313. Study of typographic principles, analysis of historical references in typographic design, and the use of technology in professional typographic practice. Lecture 2 hours, activity 4 hours.

- **ART 414 - Advanced Painting**

(4)

Prerequisite: ART 374. Studio painting and pictorial organization. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 416 - Medieval Art**

(4)

Principal monuments of Medieval architecture, sculpture, and painting covering the Celtic, Carolingian, Ottonian, Romanesque, and Gothic periods.

- **ART 417* - Advanced Ceramic Processes**

(4)

Prerequisite: ART 412. Advanced theories, analysis, and history of ceramic art, with emphasis on advanced application of ceramic techniques of forming, finishing, and firing to express individual concepts. Students with disabilities unable to access the University ceramics lab in the Fine Arts building must request a reasonable accommodation from the Office for Students with Disabilities ideally two weeks in advance of the class start date. The Office for Students with Disabilities will coordinate with other University units to provide reasonable accommodations for students who require assistance, including but not limited to accessing the kilns, potter's wheels, and sinks, plus providing any other equipment or assistance needed to participate in the class. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 418 - Business Principles and Practices for Artists and Designers**

(4)

Business management for small design or studio offices; training in freelance procedures, billing, contracts, portfolios, licenses, and artist representation; survival strategies.

- **ART 419 - Typography II**

(4)

Prerequisites: ART 308, 413. Advanced study in typographic communication design, including the creative use of typography and publication design. Lecture 2 hours, activity 4 hours. May be repeated to a maximum of 8 units.

- **ART 420 - Textile and Apparel Economics**

(4)

Prerequisite: ECON 150 or 201 or 202. Examination of linkages between the textile and apparel complex industries on a global basis. Consideration of design, merchandising and textiles.

- **ART 421 - Baroque Art**

(4)

Art of Western Europe from 16th through late 17th century.

- **ART 422 - Interactive Design II**

(4)

Prerequisites: ART 322. The advanced study and design of computer based interactive media including the effective organization and communication of ideas and information. Lecture 2 hours, activity 4 hours. May be repeated to maximum 8 units.

- **ART 426 - Modern Art**

(4)

Evolution of modern painting, sculpture, and architecture since Impressionism; surrealism, Russian constructivism, and abstract expressionism.

- **ART 429 - Advanced Sculpture**

(4)

Prerequisite: ART 314. Advanced techniques, theories, concepts, and history in sculpture. Student production of sculpture using varied methods and approaches. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 430 - Fashion Merchandising Processes**

(4)

Prerequisites: ART 206, MKT 344. Merchandising processes and fashion promotion strategies: planning, buying, and control of fashion products.

- **ART 431A - The Arts of Asia: India and Iran**

(4)

Traditional and modern art, architecture and graphic arts of India and Iran. Study of the contribution religion and politics made in the formation of artistic traditions.

- **ART 431B - The Arts of Asia: China and Japan**

(4)

Traditional and modern art, architecture and graphic arts of China and Japan. Study of the contribution religion and politics made in the formation of artistic traditions.

- **ART 434 - Advanced Painting Processes**

(4)

Prerequisite: ART 414. Techniques of painting; advanced studies in pictorial composition through process, theory and technique. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 435* - Exploring the Arts in Early Childhood**

(4)

A conceptual and experimental approach to the interrelationships of visual arts and dance in the education of young children. Studio experiences included. Lecture 2 hours, activity 4 hours.

- **ART 436 - Renaissance Art**

(4)

Art of Europe from 15th and 16th centuries.

- **ART 438* - Advanced Textile Design**

(4)

Prerequisite: ART 338 or consent of instructor. Advanced theories, concepts, and procedures in print textile design. Includes use of computer as a design tool. May include field trips. Lecture 2 hours, activity 4 hours.

- **ART 441 - American Art**

(4)

History of painting, sculpture, architecture, and minor arts of America from colonial times to present.

- **ART 442 - Advanced Textiles**

(4)

Prerequisite: ART 208. Evaluation of research, technical developments, and issues related to the production and consumption of textile products.

- **ART 444 - Fashion Promotion**

(4)

Prerequisites: ART 206, 209; MKT 340. Merchandising process and strategies; advertising and sales promotion of fashion products.

- **ART 445 - Advertising Art Direction**

(4)

Prerequisites: ART 308, 413. Advertising art direction theory and application using various media, processes and technologies for mass communication. Emphasis is placed on marketing and concept development through analysis of cultural, economic, and psychological factors. Lecture 2 hours, activity 4 hours. May be repeated to a maximum of 8 units.

- **ART 447 - The Art of Mesoamerica and the Southwest**

(4)

The art and architecture of the ancient civilizations of pre-Columbian Mesoamerica and the Southwestern region of the United States, from the time of the Olmecs through that of the Maya and Aztecs.

• **ART 449 - Video for Artists**

(4)

Prerequisite: Art 287 or consent of instructor. Examination of contemporary video art through required readings, viewing artists' videos and student production of video work. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

• **ART 450 - The Colonial Art of Mexico and Guatemala**

(4)

The art and architecture of Colonial Mexico and Guatemala, from the time of the Spanish Conquest in 1521 to Independence from Spain in 1821, with emphasis on: Tequitqui, Baroque and Churrigueresque.

• **ART 451 - Mannerism: High Renaissance to Baroque**

(4)

Sixteenth century architecture, painting, sculpture, and minor arts from High Renaissance to Baroque.

• **ART 453 - Aztec Art and Culture**

(4)

Art, architecture, and culture of the Aztec civilization of Mesoamerica.

• **ART 454L,P - Special Topics in Art**

(1-4)

Prerequisites: Upper division standing; courses as needed for specific topic. Current topics of special interest, as announced in Schedule of Classes. May be repeated to maximum of 9 units.

• **ART 456 - Art of the Ancient Andes**

(4)

Art and architecture of the Andean region in South America, from the time of the Chavin culture through the Incas.

• **ART 457 - Mexican Muralists and Frida Kahlo**

(4)

The mural art of Mexico between 1910 and 1974, emphasizing Orozco, Siqueiros, Rivera and Frida Kahlo.

• **ART 459 - Advanced Fashion Design Processes**

(4)

Prerequisite: ART 108 A and B, ART 204. Traditional and contemporary fashion design principles and techniques used for construction and assembly of garments. Tailoring techniques used for construction and assembly of garments. Tailoring techniques emphasized. Lecture 2 hours, activity 4 hours.

- **ART 460 - Multicultural Approaches to Visual Arts**

(4)

Prerequisite: ANTH 250. Analysis of art experience as human behavior responsive to sociological, ecological, political and historical conditions in American and other cultures. Specially recommended for students preparing for bilingual/crosscultural specialist credential.

- **ART 466 - Nineteenth Century Art**

(4)

Art of western Europe from David to end of nineteenth century.

- **ART 468 - Problems in Advanced Design**

(4)

Prerequisite: ART 408. Advanced study and research in visual communications design and the use of processes and technologies relevant to practice within the professional community. Lecture 2 hours, activity 4 hours. May be repeated for a maximum of 8 units. Some sections of this course require service learning and will be identified in the schedule of classes.

- **ART 469 - Historic Textiles**

(4)

Prerequisite: ART 208. Historic textiles from earliest times to present; records and preserved textiles viewed as reflections of life and textile development of countries and major civilizations.

- **ART 471 - History of Costume**

(4)

Historic costume from earliest times to present as related to the art of dress. Records and preserved costume viewed as reflections of life and costume development of countries and major civilizations.

- **ART 474* - Printmaking: Etching**

(3)

Graphic processes of etching; work in black and white and color. Activity 6 hours. May be repeated to maximum of 12 units.

- **ART 475 - Visual Arts and Human Development**

(4)

Analysis of relationships between the visual arts and aspects of human development through case study research.

- **ART 476 - Early Christian and Byzantine Art**

(4)

Prerequisite: ART 101A. Art history from 250 to 1453 AD in Eastern Empire, to 476 AD in Western Roman Empire; covers key monuments of architecture, sculpture, painting, and applied arts.

- **ART 477 - History of Photography**

(4)

Prerequisites: ART 101ABC. History of photography from 19th century to present with an emphasis on 20th century practice. Relationship of photography with history, culture, technology, art, social values and other concerns.

- **ART 481 - African Art**

(4)

Art of sub-Saharan Africa. Includes historic art of Benin, Ghana, and Congo kingdoms and traditional art of Western Sudan, Guinea Coast, and the Congo.

- **ART 482 - Photographic Manipulations and Extensions**

(4)

Prerequisite: ART 377 or consent of instructor. Use of photographs as part of broad vocabulary of processes; exploration of techniques and methods outside mainstream of photography. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 484 - Advanced Sculpture Processes**

(4)

Prerequisite: ART 429. Advanced theories, analysis, and history of sculptural art, with emphasis on advanced application of sculpture techniques to express individual concepts. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

- **ART 487 - Advanced Photography**

(4)

Prerequisite: ART 377 or consent of instructor. Advanced experimental photographic techniques including examination of critical, creative problems with an emphasis on individual development and growth. Lecture 2 hours, activity 4 hours. May be repeated to a maximum of 8 units. Some sections of this course require service learning and will be identified in the schedule of classes.

- **ART 488 - Advanced Illustration**

(4)

Prerequisite: ART 388. Advanced study of the theoretical, historical and practical aspects of illustration. Exploration and analysis of composition, story line, and dramatization. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

- **ART 489 - Advanced Fashion Design**

(4)

Prerequisites: ART 106, 108, 204. Principles and techniques of advanced fashion design. Analysis of interrelationship among materials, fashion design, and the human figure. Emphasis on draping technique. Lecture 2 hours, activity 4 hours.

- **ART 491 - Art Since 1945**

(4)

Prerequisite: ART 426. Beginning with surrealism and abstract expressionism, this course delineates the many styles of the 1960s and focuses upon postmodern art of the 1970s and 1980s.

- **ART 492A - Senior Capstone - Art History**

(4)

Prerequisite: Submission of a graduation application and consent of department. Advanced problems in a specific Art Option area. Examination of the major theories, criticism, and research in art. Development of a portfolio and a culminating senior project or research paper. Lecture 2 hours, activity 4 hours.

- **ART 492E - Senior Capstone - Art Education**

(4)

Prerequisite: Submission of a graduation application and consent of department. Advanced problems in a specific Art Option area. Examination of the major theories, criticism, and research in art. Development of a portfolio and a culminating senior project or research paper. Lecture 2 hours, activity 4 hours.

- **ART 492F - Senior Capstone - Fashion and Textiles**

(4)

Prerequisite: Submission of a graduation application and consent of department. Advanced problems in a specific Art Option area. Examination of the major theories, criticism, and research in art. Development of a portfolio and a culminating senior project or research paper. Lecture 2 hours, activity 4 hours.

- **ART 492G - Senior Capstone - Graphic Design / Visual Communication**

(4)

Prerequisite: Submission of a graduation application and consent of department. Advanced problems in a specific Art Option area. Examination of the major theories, criticism, and research in art. Development of a portfolio and a culminating senior project or research paper. Lecture 2 hours, activity 4 hours.

- **ART 492S - Senior Capstone - Studio Arts**

(4)

Prerequisite: Submission of a graduation application and consent of department. Advanced problems in a specific Art Option area. Examination of the major theories, criticism, and research in art. Development of a portfolio and a culminating senior project or research paper. Lecture 2 hours, activity 4 hours.

- **ART 493 - Digital Image Processing and Illustration**

(4)

Prerequisite: ART 408. Advanced study in the use of digital technology and methodology in image processing and illustration. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

- **ART 494 - Three-Dimensional Animation**

(4)

Prerequisites: ART 180, ART 280, ART 378, ART 380. Creation of lifelike animation using three-dimensional animation software. Preparation of animated elements and characters for verbal and non-verbal dramatic expression. Lecture 2 hours, activity 4 hours.

- **ART 495 - Directed Fieldwork In Art**

(4)

Prerequisite: Departmental consent, completion of 135 units, and 3.0 GPA. Supervised field experience in a specific area of art providing an opportunity for students to develop practical knowledge in a professional environment.

- **ART 496 - Advanced Animation**

(4)

Prerequisite: ART 376, ART 378, ART 380, ART 494. Creation of short dramatic animation projects using both two-dimensional and three-dimensional techniques. Advanced development of character animation and expressive verbal and nonverbal acting. Lecture 2 hours, activity 4 hours.

- **ART 498 - Capstone Animation Project
(also listed as TVF 498)**

(4)

Prerequisites: Consent of the instructor plus one of the following sequences: ART 480, 494, 496, or TVF 377, 378, 381. The design, pre-production, production and postproduction of an advanced animated work suitable for portfolio presentation. Up to six units may be taken by a student who is assisting on someone else's Capstone Animation Project. Activity 8 hours. 12 units required for animation majors.

- **ART 499 - Undergraduate Directed Study**

(1–3)

Prerequisites: Senior standing, completion of all upper division course work in area of study, consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and a final report submitted. Limited to 3 units per quarter. May be repeated to maximum of 9 units.

Art (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following: ART 400, 401, 415, 499 (Art education option may apply ART 400)

Classified graduate standing is required for admission to all 500 level courses

- **ART 500 - Seminar: Art Education**

(3)

Prerequisites: Teaching experience, 20 units in art. Opportunities for teachers to evaluate their experiences in light of new techniques and concepts; problems resolved through group interaction; background in subject matter increased through research and experimentation. May be repeated to maximum of 6 units.

- **ART 501A - Seminar: Ancient Art History**

(3)

Prerequisite: Classified standing in MA/MFA program. In-depth study of selected topics in art from the Paleolithic period to approximately 1000 CE. Development, discussion, and presentation of research papers.

- **ART 501B - Seminar: Art History of Changing Eras**

(3)

Prerequisite: Classified Standing in MA/MFA program. In-depth study of selected topics in Art from primarily the 15th –19th century CE time period. Development, discussion, and presentation of research papers.

• **ART 501C - Seminar: Contemporary Art History**

(3)

Prerequisite: Classified Standing in MA/MFA program. In-depth study of selected topics in contemporary art. Development, discussion, and presentation of research papers.

• **ART 502M - MFA Seminar: Visual Arts**

(3)

Prerequisite: Classified standing in Graduate MFA program. Critical approach to the visual arts through examination of the roles and works of artists in society. May be repeated to maximum of 9 units.

• **ART 503 - Graduate Problems in Design**

(3)

Prerequisite: Classified standing in graduate program. Independent research applied to problems of contemporary design permitting students to pursue specific interests in advanced areas. May be repeated to a maximum of 12 units.

• **ART 504M - MA/MFA Seminar: Studio Art**

(3)

Prerequisite: Classified standing in graduate program. Philosophical, conceptual, and practical aspects of professional studio art. Analysis and criticism focusing on the original studio production of students enrolled. May be repeated to maximum of 9 units.

• **ART 505 - Research in Art Education**

(3)

Investigation of both conceptual and procedural aspects of historical, descriptive, and experimental research relevant to practice of art education.

• **ART 506 - Fashion & Textiles: Experimentation in Design**

(3)

Experimental investigation in fashion and textiles requiring individual expression and innovation in design. May be repeated to a maximum of 9 units. Activity 6 hours.

• **ART 507 - Perspectives on Visual Art, Aesthetics, and Culture**

(3)

Inquiries into the nature of and relationships among visual art, aesthetics, and culture from various theoretical, philosophical, socio-cultural, and political perspectives.

• **ART 508M - MA/MFA Seminar: Design**

(3)

Prerequisite: Classified standing in graduate program. Intensive discussion and critical evaluation of individual research and studio production of students enrolled. Aesthetic, theoretical, and technical aspects of professional design and visual communication are examined. May be repeated to a maximum of 9 units.

• **ART 509 - Seminar: Fashion and Textiles**

(3)

Overview, theories, current issues and research in fashion and textiles.

• **ART 512 - Graduate Photography**

(3)

Prerequisite: Three upper division photography courses. Intensive study and production work in contemporary photography, current theories, concepts, and techniques. May be repeated to maximum of 12 units.

• **ART 514 - Fashion and Textiles in Cultural Contexts**

(4)

Prerequisite: ART 302. Interrelationships of fashion and textiles and culture; perspectives, dynamics and global influences.

• **ART 516 - Art and Design in Higher Education**

(3)

Prerequisite: Classified Standing in MFA program. Theories and methodologies for the instruction of art and design in higher education, organizational models, objectives, and methods of assessment. May be repeated for credit as subject matter changes, to a maximum of 9 units, with adviser approval.

• **ART 517 - Graduate Ceramics**

(3)

Prerequisite: ART 417. Individual studio work in ceramics stressing advanced competence in technique and concepts. Periodic group presentations and critical analysis. Students with disabilities unable to access the University ceramics lab in the Fine Arts building must request a reasonable accommodation from the Office for Students with Disabilities ideally two weeks in advance of the class start date. The Office for Students with Disabilities will coordinate with other University units to provide reasonable accommodations for students who require assistance, including but not limited to accessing the kilns, potter's wheels, and sinks, plus providing any other equipment or assistance needed to participate in the class. May be repeated to maximum of 18 units. Activity 6 hours.

• **ART 522 - Graduate Interactive Design**

(3)

Prerequisite: Art 422. Design, production and dissemination of advanced computer based interactive inquiries which relate specifically to creative and conceptual goals. Emphasis is on effective communication of ideas and creative uses of technology. May be repeated to a maximum of 9 units.

• **ART 531 - Research Methodologies in Art**

(4)

Research methodologies and practices of artistic inquiry. Conceptual and technical issues in and requirements related to M.A. and M.F.A.

theses, and projects in the Art department.

- **ART 544 - Graduate Painting and Drawing**

(3)

Prerequisites: Six units of upper division painting and drawing. Studio work in various media, stressing professional competence in techniques and concepts of art. May be repeated to maximum of 18 units. Activity 6 hours.

- **ART 554L - Special Topics in Art**

(1–4)

Prerequisite: Instructor consent (specific prerequisite subject to change, depending upon topic of emphasis or content requirements of the course). Selected topics reflecting current issues, problems, and interests in art. May be repeated for credit to maximum of 9 units as subject matter changes.

- **ART 554P - Special Topics in Art**

(1–4)

Prerequisite: Instructor consent (specific prerequisite subject to change, depending upon topic of emphasis or content requirements of the course). Selected topics reflecting current issues, problems, and interests in art. May be repeated for credit to maximum of 9 units as subject matter changes.

- **ART 574 - Graduate Printmaking**

(3)

Prerequisite: Six units of ART 424 or 474. Work in selection of printmaking media stressing professional competence in techniques and art concepts. May be repeated to maximum of 9 units. Activity 6 hours.

- **ART 577 - Graduate Problems in Fashion**

(4)

Prerequisite: Eight units in Fashion and Textiles Option. Individual investigation in fashion design, merchandising, and textiles; advanced work in laboratory and research. May be repeated to 12 units.

- **ART 584 - Graduate Sculpture**

(3)

Prerequisite: ART 484. Individual studio work in sculpture building upon undergraduate sculpture experiences. Periodic group presentations and critical analysis. May be repeated to maximum of 18 units. Activity 6 hours.

- **ART 594 - Graduate Computer Animation**

(3)

Prerequisite: Art 494. Advanced study and production of computer animation based on clearly stated creative and conceptual goals. Individual expression and innovation are emphasized. May be repeated to a maximum of 9 units.

• **ART 595 - Directed Field Work in Art**

(1–4)

Prerequisite: Classified standing in Graduate program. Supervised experience in professional art industry: community sites, museums, publications, and business. May be repeated to maximum of 8 units.

• **ART 595M - MFA Professional Field Work in Art**

(1–9)

Prerequisite: Classified standing in MFA program. Supervised field work experience in professional art industry: museums, publications, design, and business. May be repeated to maximum of 9 units.

• **ART 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **ART 598 - Graduate Directed Study**

(1–3)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated to maximum of 9 units.

• **ART 598M - MFA Directed Study**

(1–12)

Prerequisite: Instructor consent to act as sponsor. Independent directed study of advanced topics in professional art fields. Regular conferences with sponsor. May be repeated to maximum of 12 units.

• **ART 599 - Thesis or Project**

(1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

• **ART 599M - MFA Project**

(1–12)

Prerequisite: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research resulting in MFA project accompanied by a written abstract. May be repeated to maximum of 12 units. Graded CR/NC.

Arts & Letters

• **AL 101 - Introduction to Higher Education: Strategies for Success**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Does not meet block A3 requirement. Graded ABC/NC.

• **AL 301 - Transition to Cal State LA for Arts & Letters Majors**

(2)

Introduction to Cal State LA for transfer students in Arts and Letters. Emphasis on resources and skills that Will help students attain degree objectives. NIS account required. Graded ABC/NC.

• **AL 354 - Special Topics in Arts and Letters**

(1–4)

Prerequisite: Varies with topic. Topics of special interest, as announced in the Schedule of Classes. In depth presentation and analysis of topics significant to Arts and Letters. Graded ABC/NC.

Asian and Asian-American Studies (Undergraduate)

• **AAAS 108 - Comparative Ethnic Studies**
(also listed as LAS, PAS, CHS 108)

(4)

Survey course which examines comparatively the notions of race and ethnicity, the exploitation based on these statuses, and the resulting resistance and multi-ethnic social movements in the U.S. and *elsewhere*.

• **AAAS 140 - Introduction to Globalization, Race, and Place**
(also Listed As: LAS 140 and PAS 140)

(4)

Explores the role of race in structuring social relations around the globe, with special focus on the globalization of discourses about race.

• **AAAS 150 - Asian American History**
(also listed as HIST 150)

(4)

Survey of the Asian experience in America from 1850 to the present. Emphasis on the historical experience of Chinese, Japanese, Filipinos, Korean, other Asian, and Pacific Islander immigrant groups. Service learning option.



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Asian and Asian-American Studies (Undergraduate)

- **AAAS 160 - History of Asia**
(also listed as HIST160)

(4)

History of Asia with an emphasis on East Asia.

- **AAAS 170 - Understanding Contemporary Asia**

(4)

Explores population, culture, economy, and political structures of contemporary Asia.

- **AAAS 200 - Pacific Asian Culture, People, and Society**

(4)

Introductory survey of the people, history, society, culture, government, and economies of Pacific Asia. Focus on similarities and differences that impact understanding of and among various Asian groups. Service learning option available.

GE D ; Approved diversity course

- **AAAS 300 - Interdisciplinary Approaches to Asian/Asian American Studies**

(4)

Prerequisite or corequisite: ENGL 102. This course introduces students to the theories and methods of interdisciplinary research in Asian and Asian American Studies. Course content varies depending on the faculty's expertise and research emphasis.

- **AAAS 348 - Class, Race/Ethnicity, and Gender**
(also listed as CHS 348, PAS 348 and SOC 348)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of social class, sex/gender, and ethnicity/race as bases of inequality and the processes by which inequalities are maintained or reproduced. Some course sections may require service-learning. Some course sections may be offered online.

GE Theme H

• **AAAS 350 - Ancient East Asian Literature and the Modern World**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Meanings of “ancient” and “modern” in East Asian literature; use of Western concepts of modernity to challenge Asian traditions; use of ancient East Asian literature to impact Western “modernity.”

GE Theme I

• **AAAS 415 - Asian American Communities in Southern California**
(Also listed as ANTH 415)

(4)

The course examines the Asian American enclaves and communities in Southern California by exploring culture, ethnicity, solidarity, political economy, and resistance in their creation and maintenance of communities. Service learning option available.

• **AAAS 418 - History of Islamic Central Asia**
(also listed as HIST 418)

(4)

History in global context of the region encompassing Afghanistan, Kazakhstan, Kyrgyzstan, Tajikstan, Turkmenstan, and Uzbekistan, from the seventh century to the present, with emphasis on common religious and cultural trends.

• **AAAS 422 - Asian Americans in Science and Literature**
(also listed as LBS 422)

(4)

Prerequisites: ENGL 102, upper division standing. Interdisciplinary exploration of how Asians have been represented, and how Asian Americans have represented themselves, in relation to science and technology.

• **AAAS 449 - Anthropology of Race and Racism**
(also listed as AN TH 449, CHS 449, and LAS 449)

(4)

This course examines the anthropological ideas of race, its emergence, and its relationship to the constructions of racisms and racializations in comparative settings and in contemporary situations

• **AAAS 450A - Advanced Seminar in Asian and Asian-American Studies - Research Method**

(4)

Prerequisites: AAAS 300. A content variable seminar with writing and oral presentation experiences which explore in depth a selected topic in Asian and/or Asian-American cultures and histories in transnational contexts.

• **AAAS 450B - Advanced Seminar in Asian and Asian American Studies- Community**

Engagement

(4)

Explores Asian Pacific Islander families in the U.S. and addresses issues of domestic violence and sexual assault in API communities through community engagement.

- **AAAS 450C - Advanced Seminar in Asian and Asian-American Studies- Cultural Competency**

(4)

Explores history, language, culture, religion, art, literature, ethnicity, demography, education system, economy, and political structures of an Asian country or region, as well as its communities in the United States.

- **AAAS 451 - Understanding Korean Culture and Social Organization.**

(4)

Focus on enhancing multicultural proficiency through in-depth case study of universals and particulars in Korean culture, history, society, politics, economy, education, literacy and citizenship. Online course.

- **AAAS 452 - Korea-US Comparative Cultures**

(4)

Focus on enhancing multicultural proficiency through in-depth comparative study of Korean and American cultures, interpersonal interactions, organizations and institutions. Analyzed through the lens of the other culture. Online course.

- **AAAS 480 - Asia in the Global World**

(4)

Explores the rise of Asia and its impact on the global order.

- **AAAS 490K - Internship in Korea**

(4)

Internship in Korea and Korean American communities, including the internship in TaLK (Teach & Learn in Korea) Scholarship Program of Korea that involves teaching English at Korean local elementary schools. TaLK Scholars can earn credits for these TaLK Scholarship activities up to 8 units for 6-month TaLK Scholars and 12 units for 1-year TaLK Scholars. Required of TaLK scholars.

- **AAAS 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Consent of faculty sponsor, approval of proposed project before registration, ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. May be repeated to maximum of 8 units.

• **ASTR 151 - Principles of Astronomy**

(3)

Recommended corequisite: ASTR 152. Nonmathematical survey of modern astronomy, primarily for non-majors in science. Properties and evolution of solar system, stars, and the universe. Lecture 3 hours. Together with ASTR 152, satisfies GE Block B2.

GE B2

• **ASTR 152 - Principles of Astronomy: Laboratory**

(1)

Corequisite or prerequisite: ASTR 151. Laboratory experiments, take-home observational assignments, and field trips designed to complement ASTR 151 lecture. Laboratory 3 hours. Together with ASTR 151, satisfies GE Block B2.

GE B2

• **ASTR 160 - Space, Time and the Universe**

(4)

Current scientific understanding of the origin and evolution of the universe, presented in a non-mathematical form. Evolution of cosmological ideas through times and cultures.

GE B3

• **ASTR 311 - Elements of Modern Astronomy**
(also listed as PHYS 311)

(3)

Prerequisite: PHYS 214. Survey of modern astronomy, designed for students majoring in physical sciences, engineering, or mathematics.

• **ASTR 360 - Ancient and Modern Views of the Universe**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Lecture 4 hours. Scientific theories of the origins and mechanics of the universe from ancient Mediterranean and Chinese cultures to present day Big Bang Cosmologies and the Inflationary Universe Theory.

GE Theme I

• **ASTR 411 - Introduction to Astrophysics**
(also listed as PHYS 411)

(3)

Prerequisites: PHYS 306; PHYS 311 recommended. Celestial mechanics, stellar interiors, atmospheres, and evolution; introductory cosmology.

Aviation Administration (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• **TECH 340 - Airline Operations**

(4)

Prerequisite: Upper division standing. Operational techniques and current problems confronting airlines: control tower operations, airport lighting, radio and meteorological service, reservations, ticketing, passenger trends, feasibility route studies, fire and crash protection, and air route traffic control centers. Field trips included.

- **TECH 341 - General Aviation Operations and Administration**

(4)

Prerequisite: Upper division standing. Airport administration; organization, personnel, maintenance, zoning, facilities adequacy, financing, planning, operations, revenues and expenses, public relations, evaluation and safety; socioeconomic effect of airports on communities served.

- **TECH 342 - Airline Administration**

(4)

Prerequisite: TECH 340 or 341. Airline operation and organization; air carrier familiarization; effect of federal regulations; industrial, financial, and economic decision-making.

- **TECH 343 - Airport Administration**

(4)

Prerequisite: TECH 340 or 341. Airport operations: lighting, fuel systems, field marking, field buildings, hangars, communications, maintenance, protection/security, fire fighting, and surrounding community problems.

- **TECH 344 - Aviation Law**

(4)

Prerequisite: TECH 340 or 341. Local, state, federal, and international aviation laws and regulations, safety and economic regulations; air legal systems.

- **TECH 345 - Air Cargo**

(4)

Prerequisite: TECH 340 or 341. Efficient cargo handling by air mail, air express and air freight; research and utilization, comparison of scheduled and nonscheduled operations and contract or charter operations; flight equipment, stowage, and tie-down; insurance, tariffs, and operations.

- **TECH 346 - National Airspace System and Air Traffic Control**

(4)

Prerequisites: Upper division standing; TECH 340 or 341. U.S. system of air navigation and air traffic control; communications, facilities, airways, controlled and special use airspace, and authorized flight procedures.

- **TECH 440 - Safety Factors in Aviation**

(4)

Prerequisite: TECH 342 or 343. Safety related to air traffic control, passenger service, maintenance, and ground/air operations; history, accidents, terminology, liability, worker performance, information sources, and safety program organization.

- **TECH 441 - Aviation Sales**

(4)

Prerequisite: TECH 342 or 343. Sales in airline operation and aviation industry; research, demand analysis, advertising and promotion, traffic, and price determination.

- **TECH 442 - Airport Planning**

(4)

Prerequisite: TECH 342 or 343. Concepts of airport planning and construction; community surveys related to social, economic, and physical characteristics; political influences and phases of airport construction.

- **TECH 443 - Air Transportation**

(4)

Prerequisite: TECH 342 or 343. Facilities, state and federal regulations, legal characteristics, problems, and services of U.S. carriers; organizational function of Federal Aviation Agency, Civil Aeronautics Board, and U.S. Bureau of Transportation.

- **TECH 446 - Airport Fiscal Administration**

(4 units)

Introduction to airport finance and the tools to analyze it. Includes interactive spreadsheet analyses of airport operating budgets, airport development feasibility, and project financial evaluation.

- **TECH 447 - Senior Seminar: Aviation Problems**

(4)

Prerequisite: TECH 443. Selected topics about current aeronautical administration problems; interaction with aviation executives. Field trips may be required.

- **TECH 448 - Case Studies in Airline Finance**

(4 units)

Prerequisite: ACCT 300. Case studies of airline finances and the tools to analyze them. Includes interactive spreadsheet analysis of airline economic base, financial statements, sources and uses of funds, and financial planning.

Bioinformatics (Undergraduate)

- **BINF 400 - Bioinformatics and Computational Biology**
(also listed as CHEM 434)

(4)

Prerequisites: Grade of C or higher in BIOL 100A and CS 201; upper division or graduate level standing. Theory and application of software programs that analyze genes and proteins; creation of programs designed to search databases and align sequences.

- **BINF 401 - Machine Learning Applications in Molecular Life Sciences**

(2)

Prerequisites: BINF 400, BIOL 100B, CS 202, BIOL 300 (or EE 242 or MATH 270 or ECON 309 or MATH 474). Introduction to tools that mine data from molecular life science databases. Strategies for parameter selection. Analysis of machine learning programs to create algorithms. Statistical measurements of algorithm accuracy through cross-validation.

- **BINF 402 - Phylogenomics**

(2)

Prerequisites: BINF 400, BIOL 100B, CS 202, BIOL 300 (or EE 242 or MATH 270 or ECON 309 or MATH 474), upper division status and permission of instructor. Fundamentals of phylogenetics and tools for large-scale phylogenomic analyses. Interpretation of gene and species trees, selection of evolutionary models, implementation of phylogenetic analyses, interpretation of support statistics, and hypothesis testing.

- **BINF 403 - Process Estimation and Detection in Cellular Biology**

(2)

Prerequisites: BINF 400, BIOL 100B, CS 202, BIOL 300 (or EE 242 or MATH 270 or ECON 309 or MATH 474). Mathematical methods to model cellular processes. Theory of machine learning stochastic processes, probabilistic automata and hidden Markov models with applications in protein modeling, protein classification, gene searching and gene classification.

- **BINF 450 - Advanced Topics in Bioinformatics and Computational Biology**

(2)

Prerequisite: BINF402 or BINF403. Review of current advances in bioinformatics and computational biology. Recitation-Laboratory 6 hours.

- **BINF 454L - Special Topics in Bioinformatics**

(1-4 hours)

Prerequisite: BINF 400. Specialized topics in bioinformatics, genomics, or computational biology for advanced level students. May be repeated to a maximum of 8 units.

Biological Sciences (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: BIOL 499 and all courses with the suffix N.

- **BIOL 053A - Health Professions Enrichment**

(2)

Prerequisite: Enrollment by Permit Only. Corequisites: Students must be concurrently enrolled in BIOL 053B, 053C, 053D and 053E for a total of 10 units. Emphasizes key principles in biology important for entry to the health professions. Lecture 2 hours. No credit toward baccalaureate. (Graded CR/NC)

- **BIOL 053B - Health Professions Enrichment**

(2)

Prerequisite: Enrollment by Permit Only. Corequisites: Students must be concurrently enrolled in BIOL 053A, 053C, 053D and 053E for a total of 10 units. Emphasizes key principles in organic chemistry important for entry to the health professions. Lecture 2 hours. No credit toward baccalaureate. (Graded CR/NC.)

- **BIOL 053C - Health Professions Enrichment**

(2)

Prerequisite: Enrollment by Permit Only. Corequisites: Students must be concurrently enrolled in BIOL 053A, 053B, 053D and 053E for a total of 10 units. Emphasizes key principles in physics important for entry to the health professions. Lecture 2 hours. No credit toward

baccalaureate. (Graded CR/NC)

• **BIOL 053D - Health Professions Enrichment**

(2)

Prerequisite: Enrollment by Permit Only. Corequisites: Students must be concurrently enrolled in BIOL 053A, 053B, 053C and 053E for a total of 10 units. Emphasizes key principles in general chemistry important for entry to the health professions. Lecture 2 Hours. No credit toward baccalaureate. (Graded CR/NC)

• **BIOL 053E - Health Professions Enrichment**

(2)

Prerequisite: Enrollment by Permit Only. Corequisites: Students must be concurrently enrolled in BIOL 053A, 053B, 053C and 053D for a total of 10 units. Emphasizes key principles in written communication important for entry to the health professions. Lecture 2 hours. No credit toward baccalaureate. (Graded CR/NC)

• **BIOL 100A - Introductory Biology I**

(5)

Corequisite: MATH 104A. Introduction to the ecology, evolution, and diversity of life, covering all major groups of organisms from a phylogenetic perspective. Lecture 3 hours, Laboratory 3 hours. Recitation 1 hour.

• **BIOL 100B - Introductory Biology II**

(5)

Prerequisites: BIOL 100A and MATH 104A with grades of C or better. MATH 105 recommended. The structure/function of cells including biological molecules, membrane structure and function, prokaryotes, eukaryotes, viruses, cell respiration and photosynthesis. Overview of genetics including mendelian, molecular, microbial and population. Lecture 3 hours, Laboratory 3 hours, and Recitation 1hour.

• **BIOL 100C - Introductory Biology III**

(5)

Prerequisites: Grades of C or higher in BIOL 100A and 100B. Structure/function of plant and animal systems including growth, transport, nutrition, environmental responses, reproduction and development in plants, and the nervous/endocrine system, nutrition, circulation, excretion, reproduction/development in animals. Lecture 3 hours, Laboratory 3 hours Recitation 1 hour.

• **BIOL 140 - Science Orientation**
(also listed as CHEM 140)

(2)

Prerequisite: Instructor consent. Exploration of skills essential for success in the sciences; presentations by professional scientists. No credit toward science majors. Graded CR/NC.

• **BIOL 154 - Selected Topics in Biology**

(1-4)

Topics of current interest in biology as announced in Schedule of Classes. No credit toward Biology major or minor.

• **BIOL 155 - Animal Biology**

(4)

Introductory organismal animal biology for non-majors with an emphasis on scientific methodology and basic biological principles; topics include cells, tissues, organ system structure and function, genetics evolution, diversity, behavior, ecology. Lecture 3 hours, laboratory 3 hours. No credit toward Biology major or minor.

GE B1

• **BIOL 158 - Brain and Behavior**

(4)

Introduction to neuroscience and multi-level frames of reference that put the brain in context. Cells and molecules, nervous system organization, interactions with other body systems, higher brain functions. Lecture 4 hours. No credit toward Biology major or minor.

GE B3

• **BIOL 180 - Life Science for Elementary Teachers**

(4)

Corequisite: BIOL 181. Primarily for students preparing for a multiple subject teaching credential, content/concepts of life science presented in the course correlate with the California science standards for the multiple subject credential. Lecture 3 hours, laboratory 3 hours.

• **BIOL 181 - Life Science Seminar for Elementary Teachers**

(2)

Corequisite: BIOL 180. Primarily for students preparing for a multiple subject teaching credential, correlates with content/concepts from BIOL 180 and the California standards for professional teacher preparation programs. Requires field observation.

• **BIOL 200A - Human Anatomy and Physiology I**

(5)

Prerequisite or corequisite: CHEM 151. Structure and function of the cell and tissue; anatomy and physiology of the skeletal, muscular, digestive, and urinary systems. Lecture 3 hours, laboratory 6 hours. No credit toward Biology major or minor.

• **BIOL 200B - Human Anatomy and Physiology II**

(5)

Prerequisite: BIOL 200A. Anatomy and physiology of the cardiovascular, respiratory, nervous, endocrine, and reproductive systems. Lecture 3 hours, laboratory 6 hours. No credit toward Biology major or minor.

• **BIOL 300 - Biometrics**

(4)

Prerequisites: Grade of C or higher in BIOL 100C; MATH 105 for Biology and Microbiology majors and MATH 104B for other majors. Statistical analysis applied to biological problems, with emphasis on sampling, experimental design, chi-square analysis, t-test, analysis of variance, regression analysis, and correlation analysis. Lecture 3 hours, laboratory 3 hours.

• **BIOL 320 - Writing for Biologists**

(4)

Prerequisites: BIOL 300, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Introduction to writing skills and techniques necessary for presentation of biological information; intensive practice in writing abstracts, reports, reviews, and other forms of scientific papers. Lecture 2 hours, activity 6 hours.

• **BIOL 340 - General Genetics**

(4)

Prerequisite: BIOL 300. Principles of classical and molecular genetics as demonstrated in plants, animals, and microorganisms; emphasis on mechanisms of inheritance, structure of genetic material, breeding experiments with suitable organisms, analysis and interpretation of data. Lecture 3 hours, laboratory 3 hours.

• **BIOL 350 - Evolution**

(4)

Prerequisites: BIOL 340. Genetic and ecological bases of evolutionary change in living organisms; microevolution and population genetics, speciation, and macroevolution.

• **BIOL 360 - General Ecology**

(4)

Prerequisite: BIOL 300. Relationships of plants and animals to their environment and to each other; ecophysiology, population growth, species interactions, ecological communities, and ecosystems. Lecture 3 hours, laboratory and field work 3 hours.

• **BIOL 380 - Cell Biology**

(4)

Prerequisites: BIOL 100C, CHEM 301A. Structure and function of the cell surface, membranes, organelles, and of the cytosol; control of information flow and of metabolism. Lecture 3 hours, laboratory 3 hours.

• **BIOL 384N - Biology of Human Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Age-related changes in human physiology and anatomy at the molecular, cellular, and organismal levels; relationship of late-onset disease to the aging process. No credit toward Biology Major or Minor.

GE Theme F

• **BIOL 388N - Sex and Gender** (also listed as PSY 388)

(4)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychological differences between the sexes; topics include genetics of sexual determination, sexual development and anomalies, hormones in physiology and behavior, measurement of gender, psychological differences in behavior. No credit toward Biology or minor.

GE Theme C

• **BIOL 396 - Honors Thesis**

(1-3)

Prerequisites: Upper division standing, 40 units in the major, ENGL 102 admission to the Biology Honors program. Independent research in culminating in a written thesis, seminar presentation, and oral defense Must be repeated until 5 units have been completed, after which no additional units may be taken. Graded CR/NC.

- **BIOL 398 - Cooperative Education**
(See UNIV 398)

(1–4)

*Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190. Cooperative Education

- **BIOL 408 - Experimental Design and Advanced Biometry**

(4)

Prerequisite: BIOL 300. Experimental design in statistical procedures, advanced topics in analysis of variance, linear and nonlinear regression analysis, covariance; introduction to multivariate techniques used in biological research. Lecture 3 hours, laboratory 3 hours.

- **BIOL 412 - Human Genetics**

(4)

Prerequisite: BIOL 340. Overview of the latest developments in human genetics from the discovery of human disease genes to interpretation of the latest Human Genome Project data. Discussion of major human genetic disorders.

- **BIOL 413 - Molecular Diagnostics**

(4)

Prerequisites: BIOL 380 or MICR 401 or CHEM 431A and CHEM 431C (may be taken concurrently). Biological and technical aspects of molecular approaches to diagnosis of disease. Recommended for individuals considering careers in either clinical or research applications of biotechnology. Lecture 2 hours, laboratory 6 hours.

- **BIOL 415 - Population Genetics**

(4)

Prerequisite: BIOL 340. Forces that shape the genetic structure of populations; random genetic drift; mutation; natural selection; inbreeding; assortative mating; molecular evolution; quantitative genetics; ecological genetics. Lecture 3 hours, laboratory 3 hours.

- **BIOL 416 - Molecular Genetics**

(4)

Prerequisites: BIOL 340, CHEM 301A. The structure and function of genes and genomes. Topics include the assembly and analysis of genomes, the regulation of genome expression, replication and repair.

- **BIOL 417 - Gene Manipulation**

(4)

Prerequisites: BIOL 340 or MICR 340; BIOL 380 or CHEM 431AB and 432A. Genetic engineering and its application in molecular biology and biotechnology.

• **BIOL 418 - Advanced Evolutionary Biology**

(4)

Prerequisite: BIOL 350. Advanced study of selected topics in evolutionary biology including mechanisms of speciation, epigenetics, quantitative genetics, phylogenetics, comparative methods, evolutionary developmental biology, and the history of life on earth.

• **BIOL 420 - Global Change**

(4)

Prerequisites: BIOL 300, 320, 360; CHEM 103. Considers major transformations in the Earth's interlinked physical and biological environments, the causes of these changes (both anthropogenic and natural), and their likely consequence for the Earth's biological systems. Lecture 4 hrs, Laboratory 0 hrs.

• **BIOL 424 - General Embryology**

(4)

Prerequisites: Grade of C or higher in BIOL 100C; CHEM 301C. Molecular biology of genetic programming, cellular events of early embryogenesis, mechanisms of differentiation, and elements of organogenesis. Lecture 2 hours, laboratory 6 hours.

• **BIOL 429 - Animal Histology**

(5)

Prerequisite: Grade of C or higher in BIOL 100C. Basic structural, chemical, and physiological aspects of tissues, recent advances in histological technology; traditional microscopic study of tissues and organs, primarily mammalian. Lecture 3 hours, laboratory 6 hours.

• **BIOL 430 - Plant Physiology I**

(5)

Prerequisites: Grade of C or higher in BIOL 100C; CHEM 103. Growth and development, growth regulation, plant-water relations, mineral nutrition, photosynthesis and respiration. Lecture 3 hours, laboratory 6 hours.

• **BIOL 432 - Fundamentals of Toxicology**

(4)

Prerequisites: BIOL 380, CHEM 301C, 302B. A survey of important drugs and environmental toxicants; absorption, distribution, metabolism, and excretion of drugs and toxic compounds; mechanisms of toxic action; human and ecological risk assessment. Lecture 3 hrs, Laboratory 3 hrs.

• **BIOL 433 - Animal Physiology I**

(4)

Prerequisite: BIOL 380. Physiological phenomena at the organismic level. Muscular, nervous, endocrine, and reproductive systems; laboratory techniques and principles. Lecture 3 hours, laboratory 3 hours.

• **BIOL 434 - Animal Physiology II**

(4)

Prerequisite: BIOL 380. Physiological phenomena at organismic level; digestive, respiratory, excretory, and circulatory systems. Laboratory techniques and principles. Lecture 3 hours, laboratory 3 hours.

- **BIOL 435 - Neurobiology: Neuroanatomy**

(4)

Prerequisite: BIOL 380. Gross and Microscopic structure of the mammalian nervous system, organizational aspects, classical lesions and deficits.

- **BIOL 436 - Neurobiology: Neurophysiology**

(4)

Prerequisite: BIOL 380. Basic cellular physiology of the vertebrate nervous system.

- **BIOL 437 - Advanced Cell Physiology**

(4)

Prerequisite: BIOL 380. A topical course on cellular phenomena such as information flow, bioenergetics, control mechanisms, motility phenomena, and molecular behavior of reactive surfaces. Lecture 3 hours, laboratory 3 hours.

- **BIOL 439 - Endocrinology**

(4)

Prerequisite: BIOL 380. Anatomy, physiology, biochemistry, and molecular biology of the endocrine system. Includes in depth consideration of the mechanisms regulating hormone production, synthesis, and action.

- **BIOL 440 - Taxonomy of Angiosperms**

(4)

Prerequisite: Grade of C or higher in BIOL 100C. Identification, classification, and nomenclature of angiosperms; speciation and population structure. Lecture 2 hours, laboratory or field work 6 hours; weekend field trips may be required.

- **BIOL 444 - Drug Discovery and Development**
(also listed as CHEM 444)

(4)

Prerequisite: CHEM 301C and either BIOL 380 or CHEM 435 or CHEM 431A. An overview of the process of drug discovery and development, with an emphasis on academic and industrial research methodology.

- **BIOL 448 - Molecular Biology of the Brain**

(4)

Prerequisite: BIOL 380. A study of the molecules of the nervous system and their roles in neural function. Lecture 4 hrs.

- **BIOL 449 - Neurobiology of Development**

(4)

Prerequisite: BIOL 380. To understand current concepts of and experimental approaches to the development of the nervous system; as well

as the maintenance and remodeling of neuronal connections. Lecture 4 hrs.

• **BIOL 451 - Ornithology**

(4)

Prerequisite: Grade of C or higher in BIOL 100C. Taxonomy, distribution, physiology, life history, ecology, and behavior of birds. Lecture 2 hours, laboratory and field work 6 hours.

• **BIOL 454L - Special Topics in Biology**

(1–4)

Prerequisites: Upper division standing, others as needed for specific topic. Topics of current interest in biology as announced in Schedule of Classes. May be repeated to maximum of 16 units.

• **BIOL 454P - Special Topics in Biology**

(1–4)

Prerequisites: Upper division standing, others as needed for specific topic. Topics of current interest in biology as announced in Schedule of Classes. May be repeated to maximum of 16 units.

• **BIOL 455 - Mammalogy**

(4)

Prerequisite: Grade of C or higher in BIOL 100C. Taxonomy, distribution, ecology, and physiology of mammals. Lecture 2 hours, laboratory and field work 6 hours.

• **BIOL 457 - Marine Invertebrate Zoology**

(5)

Prerequisite: Grade of C or higher in BIOL 100C. Taxonomy, phylogeny, and natural history of major marine invertebrates taxa; laboratory work emphasizes species from local fauna and those of economic importance. Lecture 3 hours, laboratory 6 hours.

• **BIOL 462 - Plant Ecology**

(4)

Prerequisite: BIOL 360. Plants and plant communities in relation to physical and biotic environments, ecophysiology, demography, species interactions, community structure, and ecosystem function. Lecture 3 hours, laboratory and/or field work 3 hours.

• **BIOL 465 - Issues in Environmental Biology**

(4)

Prerequisites: BIOL 100C, CHEM 103. A review of crucial issues in environmental biology.

• **BIOL 470 - Conservation Biology**

(4)

Prerequisite: BIOL 360. Biological diversity of animals and plants; genetics and ecology of small populations; protection and management of threatened species and communities. Lecture 3 hours, laboratory or field work 3 hours.

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Biological Sciences (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: BIOL 499 and all courses with the suffix N.

• BIOL 472 - Marine Ecology

(4)

Prerequisite: BIOL 360. Population and community ecology of major habitats in marine environment; lecture emphasizes contemporary theories in marine ecology; laboratory offers practical field experience. Lecture 3 hours, laboratory or field work 3 hours.

• BIOL 473 - Molecular Ecology

(4)

Prerequisite: BIOL 360. Applications of molecular tools to the study of ecology and evolution. Includes consideration of techniques, analytical methods, and case studies in conservation genetics, population genetics, and environmental science.

• BIOL 476 - Physiological Animal Ecology

(4)

Prerequisite: BIOL 380. Physiological responses of animals in various environments; emphasis on energetics and thermal relationships of animals. Lecture 3 hours, laboratory 3 hours.

• BIOL 480 - Modeling Biological Systems (also listed as MATH 480)

(4)

Prerequisites: minimum grade of C in Math 205 or in both Math 215 and Math 255. Modeling techniques applied to biological systems. Topics include nonlinear dynamics, stochastic models, compartmental and spatial models, parameter estimation, methods of model evaluation, modeling complexities.

• BIOL 481 - Animal Cell Culture Theory and Technique

(4)

Prerequisites: BIOL 380 or MICR 300 or CHEM 431A or CHEM 435. Topics include extracellular matrix, signaling, differentiation, primary cells, stem cells and immortalized cells as applied to in vitro cultures. Basic and selected advanced cell culture techniques. Lecture 2 hours, laboratory 6 hours.

• **BIOL 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Consent of full-time faculty member in consultation with department chair, grade point average of 2.5 or higher. Project must be approved before registration. Student must have ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. Graded CR/NC.

• **CHIN 454L - Special Topics in Chinese**

(1–4)

Current topics of special interest to students in Chinese as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units.

• **MATH 480 - Modeling Biological Systems**
(also listed as MATH 480)

(4)

Prerequisites: minimum grade of C in Math 205 or in both Math 215 and Math 255. Modeling techniques applied to biological systems. Topics include nonlinear dynamics, stochastic models, compartmental and spatial models, parameter estimation, methods of model evaluation, modeling complexities.

• **MICR 422 - Bioterrorism and Biosecurity**

(4)

Prerequisite: MICR 300B with grade of C or higher or instructor consent. Comprehensive description of various aspects of biological security, including biology and pathogenesis of microbial agents with bioterrorism potential, their detection and counter-measures, and regulations of their possession, transportation and use in research.

Biological Sciences (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: BIOL 499 and all courses with the suffix N.

Classified graduate standing is required for admission to all 500 level courses.

• **BIOL 500 - Graduate Orientation**

(1)

Requirements and expectations of the M.S. degree program in Biology, introduction to good practices of laboratory science and research, future career paths. Must be taken during the first quarter of the degree program. Graded CR /NC.

• **BIOL 510 - Seminar: Biology**

(1)

Attendance at regular departmental seminar program: participation in seminar training program with course instructor; presentation of a departmental seminar. Graded CR/NC.

• **BIOL 517 - Seminar: Gene Manipulation**

(3)

Prerequisites: BIOL 417; instructor consent. Critical evaluation and communication of recent literature in molecular biology. May be repeated to maximum of 6 units.

• **BIOL 518 - Biotechnology Skills Laboratory**

(4)

Prerequisite: MICR 430 or CHEM 431 ABC (for Biology, Microbiology, Chemistry or Biochemistry majors) or instructor consent for students of other majors of good academic standing (GPA of 3.0 or above). A project team based course that covers various stages of a generic drug discovery process, including project design, management, and reporting.

• **BIOL 519 - Genetic Engineering Laboratory**

(8)

Prerequisites: BIOL 417; BIOL 380; CHEM 431ABC; instructor consent. Introduction to basic techniques. Lecture 2 hours, laboratory 18 hours.

• **BIOL 540 - Seminar: Data Analysis for the Biological Sciences (3)**

(3)

Prerequisites: Consent of instructor. Advanced study of selected topics in methods of data analysis. May be repeated once for a maximum of 6 units.

• **BIOL 541 - Seminar: Hot Topics**

(3)

Advanced study of the latest ground breaking discoveries in the broader field of biological science. May be repeated once for a maximum of 6 units.

• **BIOL 542 - Seminar: Organismal Biology**

(3)

Advanced study of selected topics in the fields of organismal biology and physiology. May be repeated once for a maximum of 6 units.

• **BIOL 543 - Seminar: Ecology - Environmental Biology**

(3)

Advanced study of selected topics in the fields of ecology and environmental biology. May be repeated once for a maximum of 6 units.

• **BIOL 544 - Seminar: Microbiology - Immunology**

(3)

Advanced study of selected topics in the fields of microbiology and immunology. May be repeated once for a maximum of 6 units.

• **BIOL 545 - Seminar: Genetics Evolution**

(3)

Advanced study of selected topics in the fields of genetics and evolution. May be repeated once for a maximum of 6 units.

• **BIOL 546 - Seminar: Cell, Molecular, and Developmental Biology**

(3)

Advanced study of selected topics in the fields of cell, molecular, and developmental biology. May be repeated once for a maximum of 6 units.

• **BIOL 550A - Advanced Studies in Molecular Diagnostics A**

(6)

Prerequisites: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Genetic Molecular Biologist Scientist Training Program. Study of the theoretical and technical fundamentals of nucleic acid biochemistry, cell biology, human genetics, and molecular biology as they apply to human disease and diagnostics.

• **BIOL 550B - Advanced Studies in Molecular Diagnostics B**

(6)

Prerequisites: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Genetic Molecular Biologist Scientist Training Program; BIOL 540A. Genetic differences between normal and disease states, molecular aspects of cancer progression, genetic basis of tissue type, and the theory and analysis of related nucleic acid-based diagnostic tests.

• **BIOL 550C - Advanced Studies in Molecular Diagnostics C**

(6)

Prerequisites: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Genetic Molecular Biologist Scientist Training Program; BIOL 540B. Continued study of genetic differences between normal and disease states. Nucleic acid-based molecular diagnostics for additional DNA-based disease conditions. Infectious disease testing. Quality assurance in the clinical laboratory.

• **BIOL 560 - Workshop in Environmental Science**

(4)

Prerequisite: BIOL 360. Advanced studies in ecological relationships of plants and animals; hypothesis testing in theory and practice; student-led class, field and/or laboratory research projects involving data gathering, analysis and synthesis. May be repeated once for credit. Lecture 2 hours, laboratory/field work 6 hours.

• **BIOL 561 - Seminar: Professional Development in Environmental Science**

(4)

A survey of techniques and conventions for writing scientific manuscripts, preparation of a prospectus, grantsmanship, presentation, and peer review. Seminar 2 hours, laboratory 6 hours.

• **BIOL 594 - Graduate Thesis Prospectus**

(1)

Prerequisites: Admission to the M.S. program in Biological Sciences, consent of research advisor, establishment of thesis committee.

Directed literature research and writing culminating in thesis research prospectus. Must be taken no later than the third quarter after joining a research laboratory and before enrolling in BIOL 597 and BIOL 599. May not be repeated. Graded CR/NC.

• **BIOL 594 - Graduate Thesis Prospectus**

(1)

Prerequisites: Admission to the M.S. program in Biological Sciences, consent of research advisor, establishment of thesis committee. Directed literature research and writing culminating in thesis research prospectus. Graded CR/NC. Must be taken no later than the third quarter after joining a research laboratory and before enrolling in BIOL 597 and BIOL 599. May not be repeated

• **BIOL 595 - Individual Research in Gene Manipulation**

(4)

Prerequisites: BIOL 517, 519. Laboratory research project conducted in approved on- or off-campus laboratory. Graded CR/NC.

• **BIOL 597 - Graduate Research**

(1–2)

Prerequisites: BIOL 594, approval of program committee. Conducting research toward master's degree. Must be repeated until 6 units have been completed, after which no additional units may be taken. Graded CR/NC.

• **BIOL 598 - Graduate Directed Study**

(1 – 4)

Prerequisites: Consent of instructor to act as sponsor and approval of graduate program by department. Directed study of advanced topics in the biological sciences and introduction to laboratory or field research techniques. Assigned readings, conferences, lectures, seminars, and research. Graded CR/NC. May be repeated once for credit. Units may not be used toward a M.S. degree in Biology.

• **BIOL 599 - Thesis**

(1–3)

Prerequisites: BIOL 594, advancement to candidacy, instructor consent to act as sponsor. Independent research culminating in a written thesis, Seminar presentation, and oral defense must be repeated until 9 units have been completed, after which no additional units may be taken. Graded CR/NC.

Chemistry (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

Chemistry, M.S. (Thesis option):

CHEM 401, 402, 403, 412AB, 418**, 462**, 499

Chemistry, M.S. (Comprehensive examination option):

CHEM 401, 402, 403, 412AB, 418**, 499

Chemistry, M.S. (Biochemistry option):

CHEM 401, 431ABC, 432AB, 499

**Student may petition to waive the rule regarding this course.

• **CHEM 101† - General Chemistry I**

(5)

Prerequisites: High school chemistry and physics; two years of high school algebra; satisfactory performance on chemistry diagnostic examination given during registration period. Physical concepts, stoichiometry, structure of atom, periodic table, chemical bonding. Lecture 3 hours, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

*C-ID CHEM 110 and CHEM 120S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• CHEM 102† - General Chemistry II

(5)

Prerequisite: CHEM 101. Structure of molecules, states of matter, acids and bases, equilibrium, oxidation-reduction, electrochemistry, coordination compounds. Lecture 3 hours, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

*C-ID CHEM 110 and CHEM 120S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• CHEM 103† - General Chemistry III

(5)

Prerequisite: CHEM 102. Introduction to science of thermodynamics and its applications in chemistry, chemical kinetics, spectroscopy and special topics in general chemistry. Lecture 3 hours, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

*C-ID CHEM CHEM 120S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• CHEM 151† - Fundamentals of Chemistry I

(5)

Prerequisites: One year of high school algebra, satisfactory performance on mathematics placement examination given during registration period. Introductory course in fundamental laws and theories of general chemistry. Lecture 3 hours, recitation 1 hour, laboratory 3 hours. No credit toward Chemistry or Physics major.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• CHEM 152† - Fundamentals of Chemistry II (Organic)

(5)

Prerequisite: CHEM 151. Introduction to organic chemistry. Lecture 3 hours, recitation 1 hour, laboratory 3 hours. No credit toward Chemistry or Physics major.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 154L† - Selected Topics in Chemistry**

(1–4)

Topics of current interest as announced in Schedule of Classes. No credit toward Chemistry or Biochemistry major.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 154P† - Selected Topics in Chemistry**

(1–4)

Topics of current interest as announced in Schedule of Classes. No credit toward Chemistry or Biochemistry major.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 155 - Introductory Chemistry**

(4)

Prerequisite: One year of high school chemistry. CHEM 155 presents fundamentals of chemistry and quantitative thinking. Topics include the molecular nature of matter, scientific method, measurement, stoichiometry and gas laws. Lecture 2 hours, recitation, 1 hour, activity 2 hours. Graded A,B,C/NC.

• **CHEM 158† - Molecules Matter**

(4)

An Introductory course emphasizing the importance of chemistry to everyday life including the environment, energy, food and materials. Lecture 3 hours, Laboratory 3 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the schedule of classes

GE B2

• **CHEM 159† - The Chemistry of Everyday Things Laboratory**

(1)

Corequisite: CHEM 158. An Introductory chemistry laboratory course emphasizing the chemistry of familiar materials.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

GE B2

• **CHEM 196 - Honors Proseminar**

(1)

Prerequisite: Acceptance into department honors program. Study of recent developments in chemistry and biochemistry. May be repeated to maximum of 6 units; only 1 unit may apply on major requirements. Graded CR/NC.

• **CHEM 254L - Special Topics in Chemistry**

(1–4)

Prerequisites: As needed for specific topic. Current topics of interest in chemistry and related disciplines, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **CHEM 254P - Special Topics in Chemistry**

(1–4)

Prerequisites: As needed for specific topic. Current topics of interest in chemistry and related disciplines, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **CHEM 280 - Introduction to Biomolecules**

(3)

Prerequisites: BIOL 100B and CHEM 102 or equivalent. Introduction to the chemistry of biological molecules; building blocks to macromolecules and supramolecular structures; protein function in metabolism, membrane transport, cell structure; nucleic acid structure and function; strategies of metabolism. Lecture 3 hours.

• **CHEM 291A - Organic Chemistry**

(3)

Prerequisite: CHEM 103 or 1 year of general chemistry. Properties and reactions of aliphatic and aromatic compounds; emphasis on fundamental principles and reaction mechanisms.

• **CHEM 291B - Organic Chemistry**

(3)

Prerequisite: CHEM 291A. Properties and reactions of aliphatic and aromatic compounds; emphasis on fundamental principles and reaction mechanisms.

• **CHEM 292A† - Organic Chemistry Laboratory**

(2)

Prerequisites: CHEM 103 and CHEM 291A. Corequisite: CHEM 291B. Fundamentals of organic laboratory analysis, with emphasis on spectroscopic methods. Recitation-laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 292B† - Organic Chemistry Laboratory**

(2)

Prerequisite: CHEM 292A and CHEM 291B. Corequisite: CHEM 301. Fundamental laboratory techniques of organic chemistry and organic synthesis. Recitation-laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 301 - Organic Chemistry**

(3)

Prerequisite: CHEM 291B. Properties and reactions of aliphatic and aromatic compounds; emphasis on fundamental principles and reaction mechanisms.

• **CHEM 318 - Introduction to Inorganic Chemistry**

(3)

Prerequisite: CHEM 103 or one year of general chemistry. Introduction to the study of the elements; atomic structure, bonding, ionic solids, solutions, and nonmetals.

• **CHEM 327† - Advanced Synthetic Methods**

(2)

Prerequisites: CHEM 301, 292B, 318. Application of advanced synthetic methods to the synthesis of selected organic, organometallic, and inorganic molecules. Recitation-laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 353† - Nutritional Aspects of Biochemistry**

(5)

Prerequisite: CHEM 152. Introduction to biochemistry with particular emphasis on nutrition and its effect on metabolism. Lecture 3 hours, laboratory 3 hours, recitation 1 hour.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes..

• **CHEM 354L - Special Topics in Chemistry**

(1–5)

Prerequisites: As needed for specific topic. Current topics of special interest in chemistry and related disciplines as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• **CHEM 354P - Special Topics in Chemistry**

(1–5)

Prerequisites: As needed for specific topic. Current topics of special interest in chemistry and related disciplines as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• **CHEM 360 - Writing for Chemists**

(4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); CHEM 291B or consent of instructor. Extensive practice in writing abstracts, summaries, reports, resumes, and reviews; presentation of oral reports and posters; literature searching; and ethics in scientific research.

• **CHEM 362† - Quantitative Analysis**

(5)

Prerequisite: CHEM 103. Principles and techniques of analytical chemistry, including stoichiometry, equilibrium (pH and redox), electrochemistry, spectroscopy, and separations. Lecture 3 hours, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 380N - Ancient and Modern Science**
(also listed as PHIL 380 and HIST 380)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient scientific thought as science and its relationship to modern science.

GE Theme I

• **CHEM 396 - Honors Studies in Chemistry**

(1–5)

Prerequisites: Participation in Chemistry Honors Program, CHEM 301ABC, consent of an instructor to serve as research adviser, and approval of department honors adviser. Independent research in chemistry and biochemistry. Regular consultation with research adviser; written thesis required. Students must enroll for total of 5 units before submitting thesis and receiving grade.

• **CHEM 401 - Physical Chemistry I**

(4)

Prerequisites: CHEM 103 or equivalent; MATH 208; PHYS 213. Kinetic theory of gases, thermodynamics, and chemical statistics.

• **CHEM 402 - Physical Chemistry II**

(4)

Prerequisite: CHEM 401. Thermodynamics of solutions of nonelectrolytes and electrolytes, phase equilibria, chemical kinetics, surface chemistry, and macromolecules.

• **CHEM 403 - Physical Chemistry III**

(4)

Prerequisites: MATH 215 or 401; CHEM 103 or one year of general chemistry; PHYS 214 recommended (may be taken concurrently). Molecular structure and spectroscopy. Fundamentals of quantum chemistry; applications to the chemical bond, spectroscopy, and the solid state.

• **CHEM 411 - Fundamentals of Physical Chemistry**

(4)

Prerequisites: CHEM 201; MATH 208; PHYS 103 or 203. Survey of physical chemistry including thermodynamics, kinetics, quantum chemistry, and spectroscopy. No credit toward B.S. degree in Chemistry or Biochemistry; no credit if taken after successful completion of CHEM 401.

• **CHEM 412A† - Physical Chemistry Laboratory**

(2)

Prerequisite: CHEM 401 or 403. Experiments to illustrate principles and techniques of various subjects of physical chemistry. Lecture 1 hour, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes..

• **CHEM 412B† - Physical Chemistry Laboratory**

(2)

Prerequisite: CHEM 401 or 403. Experiments to illustrate principles and techniques of various subjects of physical chemistry. Lecture 1 hour, laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of

Classes..

• **CHEM 415 - Introduction to Atmospheric Chemistry**

(4)

Prerequisites: CHEM 201; MATH 206; PHYS 103 or 203. Investigation of current topics in atmospheric chemistry using the fundamental principles of physical and analytical chemistry.

• **CHEM 418 - Inorganic Chemistry**

(3)

Prerequisites: CHEM 318. Selected topics in inorganic chemistry, including physical inorganic chemistry, coordination chemistry, and inorganic polymers.

• **CHEM 420 - Advanced Organic Chemistry I**

(4)

Prerequisite: CHEM 301. Theoretical aspects of organic chemistry emphasizing reaction mechanisms.

• **CHEM 425 - Polymer Chemistry**

(4)

Prerequisites: CHEM 301; MATH 209. Suggested corequisite: CHEM 401. Preparation, mechanisms, and properties of synthetic macromolecules; step and chain polymerization, copolymerization, kinetics, morphology and physical characterization of polymers.

• **CHEM 431A - Biochemistry**

(3)

Prerequisites: CHEM 301; Physics majors in the Biophysics option admitted by special permission. Lectures on structure, function, and chemistry of carbohydrates, proteins, lipids, and nucleic acids in animals, plants, and microorganisms.

• **CHEM 431B - Biochemistry**

(3)

Prerequisite: CHEM 431A. Physics majors in the Biophysics option admitted by special permission. Lectures on enzyme kinetics and the mechanism of enzyme action; metabolism of carbohydrates, fatty acids, lipids and amino acids; photosynthetic metabolism and assimilation of inorganic nutrients; and regulation of these processes.

• **CHEM 431C - Biochemistry**

(3)

Prerequisites: CHEM 431B, Physics majors in the Biophysics option admitted by special permission. Lectures on amino acid and nucleotide metabolism; enzymology and mechanism of DNA replication and DNA repair; transcription machinery; RNA structure and processing; protein synthesis and processing; and regulation of these processes.

• **CHEM 432A† - Biochemistry Laboratory**

(2)

Prerequisites: CHEM 292B and 431A. Recitation and laboratory experiments designed to illustrate chemical behavior of substances of biochemical importance. Recitation-laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 432B† - Biochemistry Laboratory**

(2)

Prerequisites: CHEM 431A and CHEM 432A. Recitation and laboratory experiments designed to illustrate chemical behavior of substances of biochemical importance. Recitation-laboratory 6 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 434 - Bioinformatics and Computational Biology
(also listed as BINF 400)**

(4)

Prerequisites: Grade of C or higher in BIOL 100A and CS 201; upper division or graduate level standing. Theory and application of software programs that analyze genes and proteins; creation of programs designed to search databases and align sequences.

• **CHEM 435 - Introduction to Biochemistry**

(4)

Prerequisite: CHEM 301C or one year of organic chemistry. No credit if taken after CHEM 431A. Introduction to principles of biochemistry.

• **CHEM 438 - Bioinorganic and Bioorganic Chemistry**

(4)

Prerequisite: CHEM 431A or 435. Chemical approaches to the study of biological processes with an emphasis on the tools and methods of inorganic and organic chemistry.

• **CHEM 444 - Drug Discovery and Development
(also listed as BIOL 444)**

(4)

Prerequisite: CHEM 301 and either BIOL 380 or CHEM 435 or CHEM 431A. An overview of the process of drug discovery and development, with an emphasis on academic and industrial research methodology.

• **CHEM 450 - Biomedical Seminars and Presentations**

(1)

Development of skills as critical listeners and presenters of biomedical science seminars and poster presentations. Graded CR/NC.

• **CHEM 454L - Special Topics in Advanced Chemistry**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest in advanced chemistry and related disciplines, as announced in

Schedule of Classes. May be repeated to maximum of 8 units.

• **CHEM 454P - Special Topics in Advanced Chemistry**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest in advanced chemistry and related disciplines, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **CHEM 462† - Instrumental Analysis**

(6)

Prerequisites: CHEM 362 and CHEM 402. Theories, applications, and recent technological developments of chemical instrumentation with emphasis on electrochemical, spectral, chromatographic, and magnetic resonance methods. Lecture 3 hours, laboratory 9 hours.

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

• **CHEM 480 - History of Chemistry**

(4)

Prerequisites: CHEM 103, 301. Development of chemical knowledge from chemical arts of antiquity through alchemy to twentieth century, emphasizing contributions to fundamental theory by Lavoisier, Dalton, Kekule, Van't Hoff, and Rutherford.

• **CHEM 498 - Cooperative Education**

(See UNIV 498)

(2)

Cooperative Education

• **CHEM 499 - Undergraduate Directed Study**

(1–5)

Prerequisites: 2.5 grade point average in chemistry courses or one advanced laboratory course, consent of an instructor to act as sponsor, ability to assume responsibility for independent work and to prepare written and oral reports. Independent research project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 9 units.

Chemistry (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

• **CHEM 500 - Presentation in the Chemical and Biochemical Sciences**

(2)

A student presentation and laboratory observation class designed to prepare chemistry and biochemistry graduate students to deliver presentations and/or experimental demonstrations for both research seminars and undergraduate laboratory classrooms.

• **CHEM 501 - Quantum Chemistry**

(4)

Prerequisites: CHEM 402, 403. Quantum chemistry, including discussion of molecular orbital and valence bond theories and their applications to chemistry.

• **CHEM 504 - Advanced Inorganic Chemistry**

(4)

Prerequisite: CHEM 418. Selected topics on structure and mechanism in inorganic chemistry; discussion of modern theories applied to inorganic chemistry.

• **CHEM 505 - Special Topics in Graduate Chemistry**

(4)

Prerequisite: Instructor consent. Specialized topics in chemistry given at an advanced level. May be repeated once for credit.

• **CHEM 506 - Biochemistry of Plasma Lipoproteins and Atherosclerosis**

(4)

Prerequisites: CHEM 431ABC and CHEM 432AB or equivalent, Graduate student standing. Review of scientific literature on plasma lipoprotein metabolism and development of atherosclerosis. Detailed analysis of dietary, genetic, and hormonal factors that regulate atherogenic and antiatherogenic lipoprotein concentrations in blood.

• **CHEM 507 - Protein Structure**

(4)

Prerequisites: CHEM 431ABC and CHEM 432AB or equivalent, Graduate student standing. Analysis of structural classes of proteins and factors that determine native structure, stability and biological function. Tools for analysis, comparison and prediction of protein structure. Recent advances in research literature.

• **CHEM 508 - Transcriptional Control of Gene Expression**

(4)

Prerequisites: CHEM 431ABC and CHEM 432AB or equivalent, Graduate student standing. Mechanisms of gene expression control at the transcriptional level using the original research literature. Modern molecular techniques demonstrating the activation and repression of eukaryotic genes via protein-DNA and other interactions.

• **CHEM 509 - Signal Transduction**

(4)

Prerequisites: CHEM 431ABC and CHEM 432AB or equivalent, Graduate student standing. Review of molecular signal transduction and the importance of post-translational modifications as a mechanism to transmit information to the cell.

• **CHEM 523 - Synthetic Organic Chemistry: Analysis, Design, and Methodology**

(4)

Analysis of target molecules, rational design of strategies, and methodologies for the preparation of organic molecules. Emphasis on analysis of target molecules from the recent organic chemistry literature.

• CHEM 580 - Graduate Seminar: Chemistry

(1)

Attendance at regular departmental seminar program; participation in seminar training program with course instructor; presentation of a satisfactory departmental seminar. May be repeated to maximum of 3 units.

• CHEM 590 - Advanced Laboratory

(1–2)

Prerequisites: CHEM 302B; 412B or 432B. Introduction to advanced laboratory techniques involving individual student projects. May be repeated four times to maximum of 6 units; maximum of 4 units may be applied to M.S. degree. Combined units of CHEM 590, 597, 598, and 599 may not exceed 15.

• CHEM 596 - Comprehensive Examination

(0)

See the Comprehensive Examination in the requirements for the Master's Degree section of this chapter.

• CHEM 597 - Graduate Research

(1–4)

Prerequisite: Approval of departmental adviser. Research leading toward M.S. degree. Graduate students must earn a minimum of 6 and a maximum of 8 units. Combined units of CHEM 590, 597, 598, and 599 may not exceed 15. Graded CR/NC.

• CHEM 598 - Graduate Directed Study

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field, regular conferences with sponsor. Student's progress determined by oral and/or written reports. May be repeated for credit; combined units of 597 and 598 may not exceed 13. Combined units of CHEM 590, 597, 598, and 599 may not exceed 15.

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Chemistry (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

• CHEM 599 - Thesis

(1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in thesis and oral defense thereof. May be repeated to maximum of 4 units. Combined units of CHEM 590, 597, 598, and 599 may not exceed 15. Graded CR/NC.

Chicano Studies (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• CHS 108 - Comparative Ethnic Studies (also listed as LAS, AAAS, and PAS 108)

(4)

This survey course examines comparatively the notions of "race" and ethnicity, the exploitation based on these statuses, and the resulting resistance and multi-ethnic social movements in the U.S. and elsewhere.

• CHS 110 - Introduction to Pre-Cortesian Cultures of Mexico

(4)

Introductory course examining the cultural, economic, and historical development of pre-Cortesian Mexico from the Olmec civilization to the fall of the Aztec empire.

• CHS 111 - Cultural Diversity and Chicanos

(4)

Examines cultural diversity in U.S. society from Chicano Studies perspective. Explores historical and contemporary relationships, conflict, and reconciliation among major cultural groups.

GE D ; Approved diversity course

• **CHS 112 - Cultural Expressions in the Americas**

(4)

Explores pre-Columbian artistic representations and aesthetic principles that constitute a cultural legacy—expressed in modern literature, murals, and cinema—of present-day Chicanos/as and Latinos/as in the United States.

GE C2

• **CHS 115 - Introduction to Chicano Studies**

(4)

Critical study of the literature produced in disciplines and methodologies that constitute Chicano Studies as an interdisciplinary academic field.

• **CHS 201 - Modern Mexican Literature in Translation**

(4)

Selected major works of modern Mexican literature in translation.

GE CI ; Approved diversity course

• **CHS 255 - Diverse Latin American Populations in Southern California**
(also listed as LAS 255)

(4)

The formation of and differences among the varied Latin American people in the Southern California region and their participation in contemporary society.

GE D ; Approved diversity course

• **CHS 260 - Introduction to Third World Images in Film**
(also listed as PAS 260)

(4)

Introduction to a critical examination of the historical and cultural representations of Third World peoples, including U.S. ethnic communities, in U.S. and Third World Cinemas.

GE C2 ; Approved diversity course

• **CHS 280 - Chicanas and Latinas in Contemporary U.S. Society**

(4)

Examines the economic, political, social, and cultural forces impacting Chicana/Latina lives in the U.S.

• **CHS 311 - Chicano Cultural History**

(4)

Prerequisite: CHS 115. Development and nature of Mexican and Chicano culture, emphasizing especially significant historical movements

and their contribution to understanding current cultural problems.

• **CHS 312 - Mediterranean and Pre-Columbian Myths in Latin American Literature**
(also listed as ML 312)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical readings of modern Latin American narrative fiction, poetry and drama, with interpretive emphasis in their allusions to Greco-Roman and PreColumbian myths.

GE Theme I

• **CHS 320 - Mesoamerican Civilization**
(also listed as ANTH/ART/HIST/LAS 320)

(4)

This is an interdisciplinary course that critically examines Mesoamerica as a civilization, with an emphasis on art, archaeology, literature, and cultural history.

• **CHS 327 - Ethnicity and Emotions in U.S. Film**
(also listed as ENGL 327 and PAS 327)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The critical analysis of the representations of ethnicity and emotions in U.S. film.

GE Theme E ; Approved diversity course

• **CHS 335 - Race and Culture in the Americas**
(also listed as LAS 335)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Comparative study of race and ethnicity as expressed in the arts and culture of Latin America, the Caribbean and the United States. Some sections of the course may be offered online.

GE Theme H ; Approved diversity course

• **CHS 348 - Class, Race/Ethnicity, and Gender**
(also listed as AAAS 348, PAS 348 and SOC 348)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of social class, sex/gender, and ethnicity/race as bases of inequality and the processes by which inequalities are maintained or reproduced. Some course sections may require service-learning.

GE Theme H

• **CHS 355 - Introduction to Principles of Research in Chicano Studies**

(4)

Introduction to the logic and principles of social inquiry to enable students to make knowledgeable decisions in designing, conducting, and interpreting empirical research. Draws on empirical scholarship in Chicano Studies.

• **CHS 360 - Oral History and the Chicana/o Latina/o Community**

(4)

Students learn to conduct oral history interviews that contribute to an understanding of community history.

• **CHS 370 - Environmental Racism**

(also listed as HS 370)

(4)

Prerequisite: Completion of GE basic subjects (Block A) and One G.E. Block B1 course. Use of epidemiology in environmental health. Morbidity and mortality in communities of color and lower economic status due to disproportionate distribution of environmental contaminants. Some of the sections of the course may be taught on line.

GE Theme H

• **CHS 395 - Community Service in Chicano Studies**

(1-3)

Prerequisites: Eight units of approved CHS courses; approval by departmental faculty adviser in consultation with EPIC director; acceptance by community agency. Participation in work of community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. Credit toward B.A. degree limited to 6 units.

• **CHS 400 - Literatures of Mesoamerica**

(4)

Prerequisite: CHS 111 or CHS 201. Literary works of Mayan, Nahua, and other Mesoamerican peoples, with emphasis on structural and esthetic elements, history of thought, and world view.

• **CHS 403 - Contemporary Chicana/o Literature**

(4)

Prerequisite: CHS 111. Selected literary works by contemporary Chicano and Chicana authors, from the 1960s to the present. Includes a writing assignment that integrates previous studies in the CHS major in a culminating, interdisciplinary project.

• **CHS 404 - The Central American Experience in the US**

(also listed as LAS 404)

(4)

Prerequisite: CHS 111 or CHS/LAS 255. Aspects of the Central American experience in the U.S. with emphasis on the transnational connections between the countries of origin and the communities of residence in the U. S.

• **CHS 405 - The Mexican People as Immigrants**

(4)

Global socioeconomic and political forces that shaped U.S. immigration policies and practices in relation to Mexicans; intra-group relations and social attainments of Mexicans and Mexican Americans in America.

• **CHS 406 - Latina/o Communities in U.S. Society**

(4)

The Chicano/a experience studied from the comparative perspective of other Latin Americans in the U.S.: Cubans, Puerto Ricans, Central and South Americans.

- **CHS 407 - Exploring Afro-Latino/a Identities**

(4)

This course emphasizes Afro-Latino(a) identities bringing together two groups that are often perceived as mutually exclusive categories within racial/ethnic thinking.

- **CHS 409 - U.S. Latinos, Culture, and Global Cities**
(also listed as URBA 409)

(4)

Examination of Latino demographic growth and the impact it is having on the culture and design of major American cities and its potential for social and political change.

- **CHS 410 - Chicano Psychology**

(4)

Prerequisite: PSY 150. Chicano community psychology; focus on relationships among individuals and families, groups, complex organizations; social problems and collective behavior.

- **CHS 413 - Chicana and Mexican Women Writers**
(Also listed as ML 410 and WOMN 410)

(4)

Prerequisite: ENGL 305 or SPAN 300A or equivalent. Reading knowledge of Spanish, class discussions and instruction in English. Comparative study of contemporary Mexican and Chicana female writers with a focus on gender and sexuality issues, and their particular historical and cultural context.

- **CHS 423 - Migration, Identity, and Religion**
(also listed as LAS 423 and RELS 423)

(4)

Examines the role of Theology of Liberation and Evangelical Christianity in the lives of Mexicans and Latin Americans in their home countries as well as immigrants in the US.

- **CHS 430 - Chicano Political Behavior**

(4)

Prerequisite: CHS 111. Socioeconomic and political factors that provide formative framework for unique political behavior patterns characteristically existing in the Chicano community.

- **CHS 432 - Chicanos and the War on Drugs**

(4)

Prerequisite: CHS 111. Study of war on drugs impact on Chicano and Latino community. Examines interest groups and public policy towards U.S. consumer demand for illegal drugs. This course requires service learning.

- **CHS 443 - History of the Chicano People in California**

(4)

History of the Chicano People in California since the Paleo- Indian past to the post-industrial present. Examined from a national as well as a global context.

- **CHS 444 - History of the Chicano People in the United States**

(4)

Prerequisite: HIST 202A or 202B. Historical development of the Chicano people from settlement until the present, with emphasis on period since 1848.

- **CHS 449 - Anthropology of Race and Racism**
(also listed as AAAS 449, CHS 449, and LAS 449)

(4)

This course examines the anthropological ideas of race, its emergence, and its relationship to the constructions of racisms and racializations in comparative settings and ill contemporary situations.

- **CHS 450 - Research on Community Problems**

(4)

Prerequisites: CHS 111, ENGL 102*. Satisfactory completion of WPE, and senior standing. Emphasizes special issues of Mexican/Latino communities. This course requires service learning. *Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

- **CHS 460 - The Chicano Movement**
(also listed as HIST 460)

(4)

Prerequisite: Upper-division standing. Examines the Chicano Movement of the 1960s and 1970s from an interdisciplinary perspective. Topics include: grassroots, student, and youth activism; antiwar movement; La Raza Unida Party; Chicana feminism, and the Chicano cultural renaissance.

- **CHS 465 - Gender, Sexuality, and Transnational Migration**
(also listed as WOMN 465 and LAS 465)

(4)

Explores international migration through the lens of gender and sexuality. Interdisciplinary examination of perspectives on socio-economic and legal issues affecting the lives, identities, and narratives of transnational (im)migrants.

- **CHS 466A - Colonial Mexico**
(also listed as HIST 466A)

(4)

Social, political, economic, and cultural history of Mexico from pre-Columbian times to 1810.

- **CHS 466B - Building the Mexican Nation**
(also listed as HIST 466B)

(4)

Social, political, economic, and cultural history of Mexico from 1810 to 1910.

- **CHS 466C - The Mexican Revolution and its Legacy**
(also listed as HIST 466C)

(4)
Social, political, economic, and cultural history of Mexico from 1910 to the present.

- **CHS 467 - Modern Mexico and the Chicano People**
(also listed as HIST 467)

(4)
Prerequisites: CHS 111. Recommended: CHS/HIST 466C. History of modern Mexico and its impact upon the Chicano people from separation from Mexico in 1848 to the present.

- **CHS 468 - U.S.-Mexico Borderlands**

(4)
Prerequisite: CHS 111. Urban and regional development of the U.S.-Mexico border area with particular emphasis on its impact on the Chicano community.

- **CHS 470 - Chicano Educational Issues**

(4)
Prerequisite: Upper division or graduate standing. Examination of the socioeconomic, cultural, and political forces that impact the success and failure of Chicanos in educational institutions. Service learning option is available for this course.

- **CHS 471 - The History of Chicana/o Education**

(4)
Historical overview of Chicana/o education, focused on sociopolitical and economic forces shaping the Chicana/o experiences. Emphasis on the effects of race/gender/class and nativity on the educational system structures and policies.

- **CHS 472 - Chicana/o Education: Theory and Research**

(4)
Prerequisite: CHS 111. Examines educational theories in Chicana/o education that bridges both fields of education and Chicano studies, with emphasis on the traditional and emerging analytical frameworks.

- **CHS 473 - Urban Education and Chicana/o Latina/o Dropouts**

(4)
Students will develop an understanding of social, political and economic forces shaping Chicana (o)/Latina (o) experiences in the U.S. urban educational system particularly issues related to high school dropout rates.

• **CHS 479 - Latina/o Children and Adolescents**

(4)

This course examines the socio-developmental issues Latina/o adolescents and children living in the United States experience. Interdisciplinary examination of the relationships between identity, family, friends, romantic partners, academics, career goals and lifelong satisfaction.

• **CHS 480 - Chicana Feminisms and Women's Movements**

(4)

Prerequisites: CHS 111, CHS 280, or WOMN 203. Advanced study of Chicana social movement activism and feminist thought, 1960s to present. Comparative analysis of Chicana feminisms with women of color in the U.S. and in a global context.

• **CHS 482 - Latin American Women's Movements
(also listed as WOMN 482 and LAS 482)**

(4)

Examines Latin American women's movements and feminist organizing in the U.S., Mexico, Central America, South America, and the Caribbean.

• **CHS 485 - Health and Chicano/Latino Families**

(4)

Examines health issues among Mexicans, Chicano, Mexican Americans and other Latin Americans emphasizing the interplay between the political economy, health, family and community.

• **CHS 490 - Special Studies**

(1-4)

Prerequisites: Upper division or graduate standing, permission of instructor. Intensive study of selected areas in Chicano Studies. May be repeated to maximum of 8 units.

• **CHS 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Eight units in CHS; 2.75 grade point average, upper division or graduate standing; full-time faculty member to serve as sponsor; recommendation of department chairperson. Project selected in conference with sponsor, progress meetings held regularly, and final report submitted. May be repeated to maximum of 8 units.

Chicano Studies (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses.

• **CHS 502 - Chicana/o Studies and Contemporary Theory**

(4)

Development of critical social and cultural theories with emphasis on the production of knowledge about Chicana/o/Latina/o communities.

• **CHS 503 - Seminar: Research Methods in Chicano Studies**

(4)

Analysis of research methods with emphasis on behavioral theory and methodologies applied to special fields of culture, including history, psychology, politics, education, economics, language; current social issues in Chicano/a Latino/a communities.

• **CHS 504 - Seminar: Chicano Psychological Issues**

(4)

Prerequisite: PSY 150 or CHS 410. Selected psychological issues of Chicanos including such topics as cultural psychodynamics, the fully functioning Chicano, special psychological problems, therapy and counseling effectiveness, and social psychological models.

• **CHS 505 - Seminar: Chicano Literature**

(4)

Prerequisite: CHS 403. Literary genres within Chicano literature in relation to the cultural and social context of Chicanos.

• **CHS 506 - Seminar: Chicano History**

(4)

Prerequisite: CHS 444. Advanced study of Chicano historiography readings, reviews, discussions, oral reports, and research proposals.

• **CHS 509 - Interdisciplinary Seminar in Chicano Studies**

(4)

Prerequisite: Advancement to candidacy in master's degree program. Interdisciplinary investigation and discussion of selected topics in Chicano studies.

• **CHS 510 - Chicana(o)/Latina(o) Educational Pipeline**

(4).

Interdisciplinary investigation and discussion of educational issues in Chicana(o)/Latina(o) studies, with a focus on research for and by Chicana(o)/Latina(o) scholars.

• **CHS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **CHS 598 - Graduated Directed Study**

(1-4)

Prerequisite: Consent of faculty sponsor, approved study prior to registration. Directed reading and critical analysis of advanced topics in Chicano Studies. Regular conference with sponsor. May be repeated for credit to maximum of 8 units.

CHS 599 - Thesis

(1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. An oral examination about the thesis is required. Must be repeated to total of 6 units. Graded CR/NC.

Child Development (Undergraduate)

With graduate adviser approval, appropriate 400-level courses in Child Development-related disciplines may be applied toward requirements for the master's degree.

• CHDV 120 - Intimate Relationships in Our Diverse Society (also listed as SOC 120)

(4)

Principles of interaction in intimate relationships in our diverse society. Understanding/valuing diversity and similarity (gender, ethnicity, class, etc.) in achieving intimacy. Developing knowledge/skills for dealing with relationship issues.

*C-ID SOCI 130

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE E ; Approved diversity course

• CHDV 140 - Child Development

(4)

Study of the whole child from conception to adolescence in a dynamic set of diverse contexts; examination of the interaction among biological, social/cultural, and psychological domains from a developmental perspective. Some sections may use technologically mediated instruction.

*C-ID CDEV 100

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE D

• CHDV 154L - Selected Topics in Child Development

(1–4)

Prerequisites: As needed for specific topic. Special topics of interest to students in child development as announced in The Schedule of Classes. May be repeated as subject matter changes.

• CHDV 154P - Selected Topics in Child Development

(1–4)

Prerequisites: As needed for specific topic. Special topics of interest to students in child development as announced in The Schedule of Classes. May be repeated as subject matter changes.

• CHDV 200 - Techniques for the Study of Children

(4)

Prerequisite: Completion of CHDV 140 with a grade of C or better or by consent of instructor. Overview of the methods used to study children, with an emphasis on the use of observational techniques in early childhood settings. Observation required weekly.

*C-ID ECE 200

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CHDV 210 - Infant Development**

(4)

Prerequisite: CHDV 200 with grade of C or better. Theory and dynamics of physical (including brain), perceptual, cognitive, language, personality and social emotional development from conception to 2 1/2 years. Issues surrounding the quality of center-based care for infants and toddlers will be surveyed. Lecture 3 hours, activity 3 hours.

• **CHDV 220 - The Young Child**

(4)

Prerequisite: CHDV 210 with a grade C or better, or consent of instructor. Theoretical and empirical bases for understanding the child from 2 1/2 to 5 years. Lecture 3 hours, participation with children in supervised setting 3 hours.

*C-ID ECE 210

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CHDV 222 - Administration of Preschool and Day Care Programs**

(4)

Prerequisites: CHDV 220 with grade of C or better or permission of instructor. Organization and management of finances, staff, equipment, physical space, and programs. Fulfills partial requirements for the site supervisor child development permit for administrators of early childhood programs. Lecture 4 hours, activity 2 hours.

• **CHDV 225 - Ethnic Identity and Awareness in Children and Families**

(4)

Children's development of ethnic identity and awareness; transmission of differing cultural patterns within family systems and social institutions within a diverse society.

• **CHDV 228 - Administrative Leadership in Early Childhood Programs**

(4)

Prerequisites: CHDV 220 and CHDV 222 with a grade of C or permission of instructor. Examination of leadership and administrative skills necessary to hold supervisory positions in early childhood programs; fulfills partial requirements for the Site Supervisor and Program Director Child Development Permits for administrators of early childhood and child development programs.

• **CHDV 230 - Program Design in Early Childhood**

(4)

Prerequisites: CHDV 210 with the grade of C or better or permission of instructor. Introduction to the historical and theoretical background, characteristics, and connection between philosophy and application of various early childhood program models and approaches.

• **CHDV 250 - Child, Family, and Community**

(4)

Required Prerequisite: CHDV 140. Recommended Prerequisite: CHDV 225. Examination of the impact of environmental settings, significant relationships, and societal issues on the development of children. Students integrate theory, policy and reflection. Some course sections may require service learning.

*C-ID CDEV 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CHDV 321 - Urban Families: Contemporary Issues**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examining the role of diversity in dynamic interactions between culturally diverse families and other institutions in urban environments. Processes of resolving tensions between family values/goals/needs and urban demands.

GE Theme D ; Approved diversity course

• **CHDV 340 - Middle Childhood and Adolescence**

(4)

Prerequisites: CHDV 200 with a grade of C or better or consent of the instructor. Theoretical and empirical bases for understanding children from 6 to 18 years. Some sections (identified in the class schedule) are service learning and require that time be spent each week in a community agency.

• **CHDV 343 - Child and Adolescent Cognition (also listed as PSY 343)**

(4)

Prerequisites: PSY 160 or CHDV 140 with a grade of C or better. Cognitive changes from birth to adolescence. Analysis of major theories of cognitive development. Cognitive processes examined include memory, language, problem solving, social cognition, intelligence, symbolic thinking, reading, writing, math, and technology.

• **CHDV 344 - Family Resource Management**

(4)

Effective management of human, economic, and environmental family resources. The impact of life events including aging, women's employment, children, and divorce/widowhood on family resources.

• **CHDV 350 - Social and Emotional Development**

(4)

Prerequisite CHDV 140 with a grade of C or better. Study of social and emotional development from birth through adolescence; the self; emotion regulation and expression; peer, parent-child, and early romantic relationships; interpersonal skills; moral development; risk and resilience.

• **CHDV 412 - Issues in Child Abuse, Neglect, and Family Violence**

(4)

Overview of legal, health, social, psychological, educational, and cultural meaning of child maltreatment and family violence; field observations at appropriate agencies and sites.

- **CHDV 420 - Program Design in Early Childhood**

(4)

Prerequisites: CHDV 220. Introduction to the historical, social background, connection between philosophy and application of various early childhood programs and approaches.

- **CHDV 424 - Relationship Dissolution, Stepfamilies and Children**

(4)

Prerequisites: CHDV/SOC 120, CHDV 140. Impact of relationship dissolution, and stepfamily formation on children through the life cycle. Conflict, parenting, custody, visitation, attachment issues, support networks, and parental and child adjustment.

- **CHDV 426 - Hospitalized Child/Child Life Program**

(5)

Prerequisites: CHDV 200 with grade C or better; extensive experience in preschool setting or CHDV 220 with grade C or better. Working with hospitalized children from a non-medical perspective; interaction and activity planning; play therapy. Activity six hours in hospital setting.

- **CHDV 430 - Parent-Child Development Over the Family Life Cycle**

(4)

Prerequisite: CHDV 200 with grade C or better. Interplay of personal and family developmental cycles; developmental tasks of parents, children, and mutual tasks; congruence and differences.

- **CHDV 433 - Approaches to Parent Education**

(4)

Prerequisites: CHDV/SOC 120, CHDV 200, CHDV 430. Examination of theories related to parent education, survey of popular parent education programs, and dynamics of parent education groups.

- **CHDV 443 - Psychology of Cognitive Development**

(4)

Prerequisites : Completion of CHDV 200 and 220 with a grade of C or better or by consent of the Child and Family Studies Department. This course surveys current theories and research in cognitive development. Topics include, but are not limited to, developmental changes in memory, perception, language, conceptual organization and logical reasoning.

- **CHDV 444 - Family Life Education Methodology and Professionalism**

(4)

Prerequisite: HHS 400 or EDFN 452. Principles of family life education in conjunction with the ability to plan, implement, and evaluate family life education programs. Skills, professional

• **CHDV 454L - Special Topics in Child Development**

(1–4)

Prerequisite: Varies with specific topic. Current topics of special interest to CHDV students as announced in The Schedule of Classes. May be repeated for 12 units of credit as subject matter changes.

• **CHDV 454P - Special Topics in Child Development**

(1–4)

Prerequisite: Varies with specific topic. Current topics of special interest to CHDV students as announced in The Schedule of Classes. May be repeated for 12 units of credit as subject matter changes.

• **CHDV 470 - The Family and the Law**

(4)

Prerequisite: Senior standing. Examination of family interaction with the U.S. legal system; emphasis on husband-wife and parent-child legal relationships, rights, and responsibilities.

• **CHDV 480 - Loss and Grief within a Family Context**

(4)

Complicated and uncomplicated grief reactions in children are examined within the context of family interactions. Normative child/family development, attachment, loss and resiliency theories provide the foundation for exploration of issues.

• **CHDV 492 - Development of Verbal Behavior in Childhood**
(also listed as COMD 456)

(4)

Prerequisites: Upper division standing and consent of instructor. Language acquisition in typically developing children from infancy through late childhood, with a focus on the development of phonology (sounds), lexicon (words), syntax and morphology (sentences) and communicative competence (language use). Some sections of this course may be offered online. Some sections of this course may be offered online.

• **CHDV 493 - Second Language Acquisition in Childhood**

(4)

Prerequisites: CHDV492 with a grade of C or better or by consent of instructor. Theory and empirical research on second language acquisition in children from birth to 5 years; simultaneous and sequential bilingualism; psychological, sociocultural, and linguistic factors related to second language development.

• **CHDV 495 - Directed Field Experience**

(4)

Prerequisite: Departmental approval. Supervised experience in preschool settings or early childhood program. May be repeated to 8 units. CR/NC.

• **CHDV 496 - Senior Seminar**

(4)

Prerequisites: Completion of 135 units; satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), CHDV 210, CHDV 220, CHDV 443, CHDV492/COMD 456; all prerequisites must have a grade of C or better. Restricted to Child Development majors or graduate students working on prerequisite requirements. An intensive seminar experience that examines the major issues, themes, theories and research findings in child development with an emphasis on their relationship to each other. Principles and techniques of writing a critical, literature review in Child Development.

• CHDV 497 - Senior Honors Thesis

(4)

Prerequisites: Completion of 135 units; satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), CHDV 210, CHDV 220, CHDV 443, CHDV 492/COMD 456; all prerequisites must have a grade of C or better; admission to Child Development Honors program. Restricted to Child Development majors or graduate students working on prerequisite requirements. An intensive seminar experience that examines the integration of theory, research, and practice. Writing of honors thesis under the supervision of honors adviser; approval and regular consultation with adviser required.

• CHDV 499 - Undergraduate Directed Study

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for 12 units of credit.

Child and Development (Graduate)

With graduate adviser approval, appropriate 400-level courses in Child Development-related disciplines may be applied toward requirements for the master's degree. Classified graduate standing is required for admission to all 500 level courses

• CHDV 500 - Advanced Developmental Science

(4)

Prerequisite: Satisfactory completion of the GWAR (Graduation Writing Assessment Requirement). The foundation of graduate study of the developing person. Theories of development in the major age periods; issues and methods in current research.

• CHDV 503 - Working with Parents

(4)

Prerequisite: Satisfactory completion of the GWAR. Parent education trends: theory, dynamics, implementation, programs, research, and community resources. Lecture 3 hours, laboratory 3 hours.

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Child and Development (Graduate)

With graduate adviser approval, appropriate 400-level courses in Child Development-related disciplines may be applied toward requirements for the master's degree. Classified graduate standing is required for admission to all 500 level courses

• CHDV 506 - Social Development

(4)

Prerequisite: Satisfactory completion of the GVAR. Study of normative change in social and emotional development; development of the self; peer; parent-child and sibling relationships; social cognition.

• CHDV 507 - Risk and Resiliency in Development

(4)

Prerequisite: Satisfactory completion of the GVAR. Concepts of risk, protection, resilience and competence in development. Application for intervention. Seminar 4 hours.

• CHDV 508A - Research Methods

(4)

Prerequisites: HHS 400 or EDFN 452 and CHDV 500. Methods of studying children and families, basic research designs, core issues in studying development, ethical issues and emerging methodologies.

• CHDV 508B - Analytical Methods

(4)

Prerequisites: HHS 400 or EDFN 452 and CHDV 508A. Application of research methods in understanding data analysis. Students will become familiar with data entry and data analysis using specific data sets. Seminar 3 hours, Laboratory 3 hours.

• CHDV 509 - Cognition and Language Development

(4)

Prerequisites: CHDV 492 (formerly CHDV 494) and CHDV 500. Survey of cognitive and language development: emphasizes origins of knowledge; development of sensory, motor, perceptual, attention processes; development of language(s) during early years; development of higher order cognition across late adolescence.

- **CHDV 510 - Special Topics in Child Development**

(4)

Prerequisite: CHDV 500. In-depth study of selected topics related to current issues and research in child development.

- **CHDV 595 - Graduate Field Work**

(1–6)

Prerequisites: Completion of core courses and instructor consent to act as supervisor. Supervised individual field experience in child development settings; assignments on individual basis. May be repeated to maximum of 6 units.

- **CHDV 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

- **CHDV 598 - Graduate Directed Study**

(1–4)

Prerequisites: CHDV 507; instructor consent to act as supervisor. Independent directed study of advanced topics in the field of child development; regular conferences with instructor. May be repeated to maximum of 8 units.

- **CHDV 599 - Thesis or Project**

(1–6)

Prerequisites: CHDV 510; advancement to candidacy; instructor consent to act as adviser; approval of topic prior to registration for thesis or project. Independent research resulting in thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

Chinese (Undergraduate)

- **CHIN 100A - Elementary Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Mandarin. Introduction to the customs, culture, and institutions of the Chinese people.

GE C4

- **CHIN 100B - Elementary Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Mandarin. Introduction to the customs, culture, and institutions of the Chinese people.

GE C4

• **CHIN 100C - Elementary Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Mandarin. Introduction to the customs, culture, and institutions of the Chinese people.

GE C4

• **CHIN 200A - Intermediate Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Mandarin; grammar review; vocabulary building; study of the customs, culture, and institutions of the Chinese people.

GE C4

• **CHIN 200B - Intermediate Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Mandarin; grammar review; vocabulary building; study of the customs, culture, and institutions of the Chinese people.

GE C4

• **CHIN 200C - Intermediate Mandarin**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Mandarin; grammar review; vocabulary building; study of the customs, culture, and institutions of the Chinese people.

GE C4

• **CHIN 300A - Advanced Chinese I**

(4)

Prerequisite: CHIN 200C. Must be taken in sequence. Practice in oral and written Mandarin. Emphasis on fluency, correct expression in writing, and vocabulary expansion through reading contemporary literature.

• **CHIN 300B - Advanced Chinese II**

(4)

Prerequisite: CHIN 200C. Must be taken in sequence. Practice in oral and written Mandarin. Emphasis on fluency, correct expression in writing, and vocabulary expansion through reading contemporary literature.

• **CHIN 305 - Introduction to Chinese Linguistics**

(4)

Prerequisite: CHIN 300A. Basic concepts of linguistics as applied to Chinese language. Includes Chinese phonetics, phonology, morphology, syntax, semantics, and pragmatics.

• **CHIN 310 - Chinese Civilization**

(4)

Prerequisite: CHIN 200B. Major cultural and social trends of China from beginning to present.

• **CHIN 315 - Language in Chinese Society**

(4)

Prerequisite: CHIN 200C. Study of how Chinese language functions in contemporary society. Politeness, genderlects, slang, taboos, loan words, personal naming, and cross-dialectal influence and misunderstanding.

• **CHIN 320 - Chinese Phonetics**

(4)

Prerequisite: CHIN 305. Production of Chinese sounds, Chinese phonetic system in relation to pinyin, analysis of tones and syllables, laboratory practice in pronunciation.

• **CHIN 322 - Newspaper Chinese**

(4)

Prerequisite: CHIN 300B. Extensive reading in leading Chinese newspapers and magazines from People's Republic of China, Republic of China (Taiwan), Hong Kong, etc. Emphasis on abbreviated phrases used in contemporary newspapers and magazines.

• **CHIN 350 - Fundamentals of Translation**

(4)

Prerequisite: CHIN 300B. Intensive study of the art of translation, practice in English-to-Chinese and Chinese-to-English translation.

• **CHIN 380 - Business Chinese**

(4)

Prerequisite: CHIN 200C. Intensive study of Mandarin Chinese used in business; theory and practice of fundamentals of commercial correspondence and negotiations in Chinese.

• **CHIN 395 - Chinese in Community Service**

(1-4)

Prerequisite: CHIN300B, approval of department faculty adviser in consultation with the Department Chair, acceptance by community agency. Participation in work of a community agency or program utilizing communication skills in Chinese. May be repeated once to a maximum of 6 units. Graded CR/NC.

• **CHIN 401 - Introduction to Wenyan: Classical Chinese Language**

(4)

Prerequisite: CHIN 300B. An introduction to classical Chinese language through selections from great classics such as Dao De Jing, Zhuang

Zi, Lunyu, and Shiji.

• **CHIN 402 - Classical Chinese Language II**

(4)

Prerequisite: CHIN 401. Study of classical Chinese language through selected canonical writings in philosophy and literature.

• **CHIN 403 - Contrastive Analysis of Chinese and English Structures**

(4)

Prerequisites: CHIN 300AB and ENGL 401. Contrastive analysis of structures of Chinese and English describing similarities and differences of each, emphasis on studying structures that cause interference in language learning.

• **CHIN 408 - Chinese Literature I**

(4)

Prerequisite: CHIN 300B. Chinese literature from the beginnings to the 13th century.

• **CHIN 410 - Chinese Literature II**

(4)

Prerequisite: CHIN 300B. Chinese literature from the 13th century to the present.

• **CHIN 420 - Chinese Poetry**

(4)

Prerequisite: CHIN 300B. Study of major Chinese poets in different historical periods. Analysis of poetic form, image, and style.

• **CHIN 422 - Contemporary Chinese Fiction**

(4)

Prerequisite: CHIN 410. In-depth study of Chinese contemporary novelists from the 1980s to the present: Chinese modernism, postmodernism, and post colonialism.

• **CHIN 426 - Chinese Film**

(4)

Study of the history of Chinese film, cinematic theories, and the style and art of major directors. Analysis of film adaptation of literary texts. Conducted in English.

• **CHIN 428 - Chinese Women's Literature**

(4)

Prerequisite: CHIN 300B. Study of works by Chinese women writers from the classical period to the present.

- **CHIN 451 - Proseminar: Chinese Linguistics**

(4)

Prerequisites: CHIN 300B, CHIN 305, ENGL 401. In-depth study of selected topics in Chinese linguistics. May be repeated to a maximum of 8 units as subject matter changes.

- **CHIN 452 - Proseminar Yuan Ming Drama**

(4)

Prerequisite: CHIN 410. In-depth study of the Golden Age of Chinese Drama during the Yuan and the Ming Dynasties; political, cultural, and aesthetic values; and their influence on subsequent literary history and world culture.

- **CHIN 454P - Special Topics in Chinese**

(1–4)

Current topics of special interest to students in Chinese as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units.

- **CHIN 460 - Proseminar: Masters of Chinese Culture and Thought**

(4)

Prerequisite: CHIN 300B.

Study of major figures in Chinese intellectual history. May be repeated to a maximum of 8 Units as subject matter changes.

- **CHIN 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Instructor's Consent. Project selected in conference with instructor before registration; progress meetings held regularly and culminating in written reports. May be repeated to a maximum of 8 units for credit.

Civil Engineering (Undergraduate)

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of a graduate adviser.

- **CE 154 - Special Topic in Civil Engineering**

(1–4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in engineering, as announced in the Schedule of Classes. May be repeated to maximum of 8 units. CR/NC

- **CE 190 - Introduction To CAD**

(1)

Prerequisite: MATH 104B. Use of computers in 2 and 3 dimensional drafting and pictorial representation using CAD software. Computer graphics fundamentals and descriptive geometry. Laboratory 3 hours.

- **CE 195 - Civil Engineering Design I**

(4)

Prerequisites: CE 190, CE 202, PHYS 211. Introduction to civil engineering design including problem identification, data gathering, analysis, feasibility study, alternative design, decision making and communication. Lecture 2 hours, Laboratory 2 hours.

- **CE 201 - Statics**
(also listed as ME 201)

(4)

Prerequisites: MATH 207, PHYS 211. Fundamental principles of statics, resolution and composition of forces, algebraic and graphic solutions, friction, center of gravity, moment of inertia.

- **CE 202 - Plane Surveying**

(4)

Prerequisite: MATH 104B or satisfactory score on mathematics placement test. Principles and practices of measurement of distances, directions, and elevations; care and use of level, transit, plane table; mapping practice, and symbols. Lecture 2 hours, laboratory 6 hours.

- **CE 205 - Strength of Materials I**
(also listed as ME 205)

(4)

Prerequisite: CE/ME 201. Stresses and strains under axial, shearing, and torsional forces; flexural stresses and deflections of simple beams; columns; and combined stresses.

- **CE 208 - Statics and Strength of Materials**
(also listed as ME 208)

(4)

Prerequisites: MATH 207, PHYS 211. Principles of statics, force systems and equilibrium, structures, machines, distributed force, centroid, moment of inertia, stresses, strains, and deformations under axial, torsional, and bending loads. For Electrical Engineering students only.

- **CE 210 - Matrix Algebra for Engineers**
(also listed as ME 210)

(2)

Prerequisite: MATH 208. Introduction to calculations using vectors; matrix operation; solution of linear simultaneous equations; coordinate transformation; application to engineering problems.

- **CE 211 - Statistics and Probability for Engineers**
(also listed as ME 211)

(2)

Prerequisite: MATH 208. Introduction to calculations using probability distributions and densities; concepts in statistics; application to engineering problems.

- **CE 220 - Our Oceans and Our Future**

(4)
The engineering aspects of ocean environment, its effect on humankind, and our future. Intended for all majors.

GE B3

• **CE 280 - Numerical Methods for Engineers I**

(2)

Prerequisites: CE/ME210. This course focuses on equipping students with the basic computing skills students will need throughout their engineering disciplines. The emphasis is on translating open-ended problems into algorithm development and implementation to solve basic numerical problems. Topics include introduction to basic engineering problems and their conceptualization through mathematical models, and introduction to algorithm development and implementation into a computer program. (Laboratory 6 hours)

• **CE 284 - Environmental Engineering I**

(1)

Prerequisites: MATH 207 and CHEM 101. This course provides an overview of natural environmental systems and processes with special emphasis placed on the interactions among environmental systems (e.g., air, water, and soil) and between humans and technology and the environment. Topics include occurrence and movement of surface water and groundwater, water and sewage treatment, air pollution, climate change, modeling, hazardous and solid waste management, green engineering, and nutrient and contaminant cycling. (Laboratory 3 hours)

• **CE 303 - Fluid Mechanics I**

(also listed as ME 303)

(4)

Prerequisite: PHYS 212. Fundamental principles and methods of fluid mechanics; thermodynamics of fluid flow; Newtonian fluids; equations of fluid flow; laminar and turbulent flow; applications.

• **CE 306 - Communication for Civil Engineers**

(3)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), COMM 150. Exposure to key communication skills encountered in civil engineering practice. Integration of oral and written communication skills centered around a civil engineering design project. Individual and team assignments. Lecture 2 hours, laboratory 3 hours.

• **CE 312 - Strength of Materials Laboratory I**

(also listed as ME 312)

(1)

Prerequisites: CE/ME 205 (may be taken concurrently). Tests of engineering materials in tension, compression, bending, and torsion; verification by experiment; basic theories learned in strength of materials. Laboratory 3 hours.

• **CE 313 - Fluid Mechanics Laboratory I**

(also listed as ME 313)

(1)

Prerequisites: CE/ME 303. Experiments on fluid properties, fluid statics, conservation of mass, energy, and momentum, and fluid resistance. Laboratory 3 hours.

• **CE 320 - Dynamics I**

(also listed as ME 320)

(4)

Prerequisite: CE/ME 201. Kinematics and kinetics of rigid bodies; work, kinetic energy, impulse, momentum in two and three dimensions; applications to space mechanics.

• **CE 352 - Technological Aspects of Urban Environment**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Current engineering practice in dealing with urban problems such as financial, transportation, pollution, communications, public utilities, land use planning and public health. Not acceptable for engineering technical elective credit.

GE Theme D

• **CE 358 - Environment, Earth Systems and Technology**
(also listed as GEOG 358)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Consider the role of technology in the changing relationships between human societies and their environment; studies the impact of the agricultural, industrial and information revolutions on natural systems and sustainability.

GE Theme G

• **CE 360 - Structural Mechanics I**

(4)

Prerequisite: CE/ME 205. Analysis of determinate structures: beams, frames, and cables. Introduction to influence lines and analysis of indeterminate structures.

• **CE 361 - Introduction to Structural Design**

(4)

Prerequisites: CE 195, CE 360. Loads on buildings and load distribution in framed structures, codes and specifications, design of simple beams, columns and tension members made from steel, concrete, and timber.

• **CE 364 - Concrete Laboratory**

(1)

Prerequisites or corequisites: CE 361, CE/ME 312. Physical tests of cement, concrete aggregates, tensile strength test of cement, proportioning of concrete mixtures, slump test, compressive and flexural strength tests. Laboratory 3 hours.

• **CE 365 - Specifications and Cost Estimating**

(4)

Prerequisite: Senior standing in engineering. Building specifications and codes, estimating costs, materials handling and transport, excavation, concrete, wood, masonry, and steel construction.

• **CE 366 - Soil Mechanics I**

(4)

Prerequisites: CE/ME 205; prerequisite or corequisite: CE/ME 303. Physical and mechanical properties of soils, classifications, permeability, seepage, capillarity, consolidation, settlement, stresses, pressures, strength theories, and testing methods.

- **CE 368 - Soil Mechanics Laboratory**

(1)

Prerequisites: CE 366, CE/ME 312. Physical properties of soils, soil classification, mechanical analysis, permeability, shearing strength, and consolidation tests. Laboratory 3 hours.

- **CE 370 - Transportation Engineering**

(4)

Prerequisites: CE 202, CE/ME 210, 211. Fundamental principles for analysis, planning, design, and operation of transportation systems.

- **CE 372 - Asphaltic Materials Laboratory**

(1)

Prerequisite: CE/ME 312. Laboratory tests on asphalt cement and aggregates; design of asphaltic mixtures; proportioning of asphalt cement and aggregates; preparation of test specimens. Laboratory 3 hours.

- **CE 380 - Numerical Methods for Engineers II**

(2)

Prerequisite: CE 280, MATH 215. Applied numerical methods for engineers with computer applications. (Laboratory 6 hours).

- **CE 381 - Computer Aided Design Laboratory**

(1)

Prerequisites: CE 303, 361, 370. Use of computer-aided visualization, comprehension and graphical representation in planning and design of civil engineering projects.

- **CE 382 - Computer Aided Structural Analysis, Design and Experimentation Laboratory**

(1)

Prerequisites: CE/ME 312, CE 361. Computer aided structural analysis and design using structural simulation software as encountered in practice. Computer aided structural experimentation and comparison of experimental results with structural analysis software. Laboratory 3 hours.

- **CE 384 - Environmental Engineering II**

(3)

Prerequisites: CE 284. This course is the second in the required core environmental engineering series. Discussion on natural environmental systems will continue, with special emphasis on the role and sustainability of engineered systems (i.e., water/wastewater treatment plants, landfills, remediation technologies, etc.). Greater focus on the fundamentals of the fate and transport of contaminants and nutrients in air, surface waters, groundwater, and soils. (Lecture 2 hours, laboratory 3 hours).

- **CE 386 - Design of Water Resources Systems**

(4)

Prerequisites: CE 195, CE/ME 303. Develops of water resources and demand of water, availability of water, storage and control structures, conveyance system, and drainage system.

• **CE 387 - Hydraulics I**

(4)

Prerequisite: CE/ ME 303. Introduction to open channel flow, gradually varied flow, hydraulic machinery, and introduction to unsteady flow.

• **CE 398 - Cooperative Education**

(1–4)

Prerequisites: Approval of student adviser and department chair. Integration of civil engineering work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. Graded CR/ NC.

• **CE 402 - Strength of Materials II**

(4)

Prerequisites: CE/ME 205, MATH 215. Stress-strain relationship in three dimensions, energy principles; theories of failure, curved beams, thick wall cylinders, shear center, unsymmetrical bending, and torsion in noncircular sections.

• **CE 413 - Fluid Mechanics Laboratory II**
(also listed as ME 413)

(1)

Prerequisite: CE/ME 313; prerequisite or corequisite: CE 387 or ME 408. Experiments on subsonic and supersonic flow, free surface flow, pumps, turbines, fans, and unsteady flow. Laboratory 3 hours.

• **CE 454 - Special Topics in Civil Engineering**

(1–4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced civil engineering subjects upon approval of instructor.

• **CE 454L - Special Topics in Civil Engineering**

(1)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced civil engineering subjects upon approval of instructor. Tests include physical tests of cement, aggregates and other agents, mix design; workability and strength tests. Concrete canoe design and construction.

• **CE 460 - Structural Mechanics II**

(4)

Prerequisite: CE 360. Analysis of indeterminate structures; moment distribution, slope deflection, and approximation methods; three dimensional frames and long span structures.

- **CE 461 - Design of Steel Structures**

(4)

Prerequisites: CE 360, 361. Design of steel structures; lateral buckling of beams and frames, built-up beams, girders and trusses; moment connections, torsion and unsymmetrical bending; diaphragms and lateral force designs.

- **CE 462 - Reinforced Concrete Design I**

(4)

Prerequisites: CE 360, 361. Strength design of reinforced concrete structures, beams, slabs, frames, columns, footings, and retaining walls.

- **CE 463 - Timber and Masonry Design**

(4)

Prerequisites: CE 360, 361. Wood properties and design of wood structural elements, plywood and glulam products; reinforced masonry (brick and concrete) units, material properties, design of reinforced masonry structural elements.

- **CE 465 - Seismic Design**

(4)

Prerequisites: CE 460 and CE 461 or CE 462. Earthquake and ground motion characteristics, structural response to support motions, lateral force resisting systems, determination of seismic forces, design of buildings for lateral loads.

- **CE 467 - Foundations I**

(4)

Prerequisite: CE 366. Site exploration, bearing capacity, slope stability, lateral earth pressure, types of foundations, footings, caissons, piles, retaining walls, and cofferdams.

- **CE 471 - Highway Engineering**

(4)

Prerequisites: CE 370, CE 202. Introduction to principles of highway design including route location, geometric of horizontal and vertical curves, earthwork computations, drainage designs; computer applications.

- **CE 472 - Highway and Airport Pavement Design**

(4)

Prerequisites: CE 368, 370. Theory and principles of pavement design for highways and airports; effects of soil characteristics and physical properties of basic materials; testing procedures. Grading ABC/NC.

- **CE 473 - Pavement Design Laboratory**

(1)

Prerequisite: CE/ME 312. Basic tests performed in evaluation of treated and untreated bases, subbases, and subgrades necessary for pavement thickness design. Laboratory 3 hours.

- **CE 474 - Traffic Engineering**

(4)

Prerequisite: CE 370. Elements of traffic engineering; vehicle, driver, and road characteristics; capacity and flow determination; signalized intersections; parking and accident studies; street, freeway, and mass transit operations.

- **CE 475 - Advanced Geomatics**

(4)

Prerequisite: CE 370. Prerequisite or Corequisite: CE 471. Advanced geomatics, including triangulation, global positioning system (GPS), design and field layout of a spiraled horizontal curve including a vertical curve, and earthwork determination. Lecture 2 hours, laboratory 6 hours.

- **CE 479 - Groundwater Contamination and Remediation**

(4)

Prerequisite: CE 384. Study of the fate of contaminants in the subsurface environment. Focus is on the transport of chemicals through porous media including possible transformations (chemical, physical, and biological). (Lecture 3 hours, laboratory 3 hours).

- **CE 480 - Environmental Modeling**

(4)

Prerequisites: CE 380 and CE 384. This course introduces basic tools and processes used to model complex environmental systems. The emphasis is on physical, chemical and biological processes used in the development of environmental models. Topics include development of mass-balance-based numerical models, capturing, storing, analyzing, and displaying geographically referenced data, application of environmental models to evaluate pollutant fate and transport in air and water, and model evaluation. (Lecture 3 hours, Laboratory 3 hours)

- **CE 483 - Hydrology I**

(4)

Prerequisite: CE/ME 303. Precipitation, evaporation, infiltration, transpiration, and runoff; methods of predicting discharge from precipitation, flood routing, and measurement of hydrologic processes.

- **CE 484 - Environmental Engineering Design**

(4)

Prerequisite: CE 384. This course focuses on the analysis and design of environmental systems including water and wastewater treatment plants, treatment lagoons, air pollution prevention equipment, industrial waste treatment facilities, groundwater remediation, and other pertinent engineered systems. (Lecture 3 hours, laboratory 3 hours).

- **CE 485 - Water Supply**

(4)

Prerequisite: CE/ME 303. Sources and collection of surface and ground water, distribution systems, water quality, water treatment plants, sedimentation, filtration, softening, and disinfection.

- **CE 496A - Civil Engineering Design Project I**

(3)

Prerequisites: CE 306,361,366,370,384,386, ENGR 300, 301. Initial phases of planning and designing typical civil engineering project as encountered in practice; project requires integration and synthesis of acquired knowledge, consideration of alternative solutions, methods, and constraints such as economic, environmental, health and safety, social, political, sustainability, constructability, and ethical. Individual and group work required. A preliminary report and oral presentation required. Lecture 2 hours and Laboratory 3 hours. CE 496A and 496B must be taken in consecutive quarters in the same academic year.

• CE 496B - Civil Engineering Design Project II

(2)

Prerequisite: CE496A. Continuation of design project initiated in CE 496A. Complete analysis and design of system including application of constraints. Preparation of final design report, including: memoranda, computations, drawings, cost estimates etc. Individual and group work required. Final written and oral report is required. Laboratory 6 hours. CE 496A and 496B must be taken in consecutive quarters in the same academic year.

• CE 499 - Undergraduate Directed Study

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Civil Engineering (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Classified graduate standing is required for admission to all 500 level courses

• CE 554 - Advanced Topics in Civil Engineering

(4)

Prerequisites: Department approval required. Advanced topics in Civil Engineering. May be repeated to a maximum of 8 units as subject matter changes.

• CE 555 - Reinforced Concrete Design with FRP Reinforcement

(4)

Prerequisite: CE 462. Design of Concrete Structures with Fiber-Reinforced Polymer (FRP) Reinforcement. Lectures will address the design of new, and rehabilitation and strengthening of existing reinforced concrete structures. The design, and design review will be conducted during the laboratory section of the course. (Lecture 3 hours, Laboratory 3 hours)

• CE 560 - Structural Mechanics III

(4)

Prerequisite: CE 460. Column analogy, moment distribution applied to nonprismatic members, elastic energy method applied to arches and curved members, influence lines for indeterminate structures and secondary stresses.



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HELP

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Civil Engineering (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Classified graduate standing is required for admission to all 500 level courses

• CE 561 - Advanced Steel Design

(4)

Prerequisites: CE 460, 461. Emphasis on LRFD method, Unsymmetrical bending and torsion of beams, composite beams, nonprismatic beams, plate girders, beam-columns, frames and connections.

• CE 562 - Reinforced Concrete Design II

(4)

Prerequisite: CE 462. Creep and plastic flow of concrete. Theory and practice of ultimate strength design. Prestressed concrete structures.

• CE 564 - Numerical Methods in Structural Analysis

(4)

Prerequisite: CE 460 or 402. Finite difference and finiteelement methods for structures; free and forced vibrations; bending, buckling of beams and plates; special applications.

• CE 565 - Dynamics of Structures

(4)

Prerequisite: CE 460 or ME 414. Free vibrations, forced vibrations and transient response of structures and structural components having one and many degrees of freedom; damping and inelastic action, earthquakes and nuclear blasts; dynamic resistance of structures; limit design; design for dynamic loads.

• CE 566 - Soil Mechanics II

(4)

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Prerequisite: CE 467. Stress and strain in soil mass, equilibrium and movement of soil water, soil consolidation, settlement, and soil strength.

- **CE 567 - Foundations II**

(4)

Prerequisite: CE 467. Earth-pressure problems and problems of deep excavation; design of anchored bulkheads, cofferdams, piles under lateral loads, underpinning.

- **CE 569 - Earth Structures**

(4)

Prerequisite: CE 467. Factors influencing design, explorations for foundations and construction processes, compactions, stability analysis, seepage control, earth dams.

- **CE 570 - Soil Dynamics**

(4)

Prerequisite: CE 467. Dynamic properties of soils, vibratory effects on foundations, earthquake effects on foundations, dynamic stability of earth structures.

- **CE 571 - Highway Design**

(4)

Prerequisite: CE 471. Practical application of American Association of State Highway and Transportation Officials (AASHTO) policy on design controls; capacity analysis for uninterrupted flow, weaving section and ramps; functional design procedures in development of an interchange.

- **CE 572 - Plates and Shells**

(4)

Prerequisites: CE 402, 460. Equations of bending of thin elastic plates, energy method; approximate and numerical methods; theory of shells with application to tanks, roofs, and pressure vessels.

- **CE 574 - Traffic Flow Analysis**

(4)

Prerequisite: CE 370. Measurements and analysis of traffic flow characteristics: speed, density, flow, headway; statistical data analysis, time-space diagrams, traffic flow models, queuing theory, shock wave analysis, traffic models applications.

- **CE 575 - Urban Transportation Planning**

(4)

Prerequisite: CE 370. Travel forecasting, data requirements, collection methods, trip generation and distribution models; modal split analysis, trip assignment, plan alternatives, and evaluation methodology.

- **CE 577 - Bridge Engineering**

(4)

Prerequisites: CE 461, 462. Design of steel, concrete, and timber bridges, piers, and abutments; American Association of State Highway and Transportation Officials (AASHTO) specifications; criteria for earthquake resistant design of bridges; geometry, safety economics, and aesthetics.

• **CE 579 - Environmental Mass Transfer**

(4)

Prerequisite: CE 479. Study the fate of contaminants in the environment. Emphasis on the fundamentals of mass transfer including: sorption/desorption, contaminant retardation, vaporization and dissolution of Nonaqueous Phase Liquids (NAPL), and other phenomena.

• **CE 580 - Advanced Environmental Modeling**

(4)

Prerequisites: CE 480. Numerical methods are used in this course to solve complex environmental transport equations. The emphasis is on finite difference and finite element methods. Topics include derivation of mass-balance-based transport equations, algorithm development for models that range from simple steady-state homogeneous isotropic condition to complex transient heterogeneous anisotropic condition, and implementation into a computer program. (Lecture 3 hours, Laboratory 3 hours)

• **CE 581 - Modeling Techniques in Hydraulic Engineering**

(4)

Prerequisite: CE/ME 303. Dimensional analysis: similarity law and hydraulic, coastal, and estuarine models; mathematical models.

• **CE 582 - Statistical Hydrology**

(4)

Prerequisites: CE 483, CE/ME 210, 211. Statistical and probability analysis of hydrologic processes. Application of correlation and regression method to hydrologic variables. Elementary time series analysis of hydrologic data.

• **CE 583 - Hydrology II**

(4)

Prerequisite: CE 483. Space-time characteristics and mechanics of rainfall, surface run-off and infiltration. Theory of drainage basin dynamics. Low stream flow.

• **CE 584 - Advanced Environmental Engineering Design**

(4)

Prerequisites: CE 484. Design of environmental quality and pollution control for water and/or wastewater treatment plants, landfills and incinerators, groundwater remediation, air pollution control systems, and other relevant environmental systems. Lectures will address the design process, optimization, and policy and legal issues. The design and design review will be conducted during the laboratory section. (Lecture 3 hours, Laboratory 3 hours)

• **CE 585 - Environmental Transport**

(4)

Prerequisite: CE 479 or equivalent. Transport in water and air emphasizing exchanges across boundaries such as sediment-water and air-water; particles, droplets, and bubbles; effect of reactions on transport; linkages between physical, chemical, and biological processes.

- **CE 586 - Open Channel Hydraulics**

(4)

Prerequisites: CE 387, MATH 215. Flow types, flow profile computations; design of channels and transition structures; unsteady flow.

- **CE 587 - Hydraulics II**

(4)

Prerequisite: CE 387. Unsteady flow in pipes, wave motion, sediment transportation, and coastal engineering.

- **CE 588 - Hydraulic Structures**

(4)

Prerequisite: CE 387. Hydraulic structures for impounding, conveying, and controlling water.

- **CE 589 - Coastal Engineering**

(4)

Prerequisite: CE 387. Fundamentals of water waves and their effects. Diffraction, reflection, and refraction; impulsively generated waves; effect of waves on coastal structures.

- **CE 596 - Comprehensive Examination**

(0)

Prerequisites: CE 496 A and B (or ABET accredited undergraduate degree in civil engineering). Permission needed by department. Students who select the comprehensive examination (CE 596) should expect to take it the quarter they complete all course work on their program, and must comply with college and department requirements.

- **CE 597 - Graduate Research**

(1–5)

Prerequisites: Instructor consent to act as sponsor and departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/ NC.

- **CE 598 - Graduate Directed Study**

(1–4)

Prerequisites: Instructor consent to act as sponsor and departmental approval. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

- **CE 599 - Thesis**

(1–4)

Prerequisites: CE 496 A and B (or ABET accredited undergraduate degree in civil engineering), advancement to candidacy, instructor consent to act as a sponsor and college approval of the topic prior to registration. Independent research resulting in a thesis. Must be

repeated to maximum of 4 units. Graded CR/ NC.

Classics (Undergraduate)

- **PHIL 300 - Origins of Classical Thought**

(4)

Beginnings of classical culture in ancient Greece; analysis of early classical conception of art, sciences, technology, politics, philosophy, and religion; emphasis on role of basic concepts in shaping Greek and Roman civilization.

Computer Integrated Design (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 110 - Introduction to Drafting**

(3)

Application of theory and fundamentals of drafting: orthographic projection techniques applied for a basic understanding of architectural, machine, forging, casting, welding, and electronic drafting. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 144 - Introduction to Industrial Design**

(3)

Creative problem-solving and aesthetics, application through two- and three-dimensional exploratory exercises in color, texture, shape, form, structure, and space through simple industrial design problems. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 310 - The Design Process**

(3)

Introduction to the process of technical design. Analysis and application of the methods, models, organizations, standard and practices used in the design of projects or products. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 313 - Product Design and Development**

(3)

Prerequisite: TECH 310. In-depth examination of the process of designing products for manufacture. Analysis and application of the methods, models organizations, standards and practices used in industry. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 315 - Project Design and Document Control**

(3)

Prerequisites: TECH 310 and 313. Concepts, applications and procedures necessary to control, protect and access graphical data used in the management of design and manufacturing documentation. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 411 - Tool Design**

(3)

Prerequisite: TECH 110. Application of principles of precision dimensioning, mechanics, and drafting to design of machines, tools, gears, and cams; selection and design of tools for mass production. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Communication Disorders (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **COMD 150 - Introduction to American Sign Language**

(4)

Introduction to the American Sign Language organized gesture system including Deaf culture, visual signs, development of basic conversational skills, grammatical structure and principles underlying ASL.

GE C4

- **COMD 170 - Introduction to Communication Disorders**

(4)

Introduction to causes, characteristics, and remediation of common communication disorders, focusing primarily on children. Designed for majors in related fields and as a beginning course for Communicative Disorders majors.

- **COMD 250 - American Sign Language II**

(4)

Prerequisite: COMD 150. Continued study of Fundamentals of American Sign Language including comprehension skills, grammatical structures, practice in expressive aspects of the language, and exposure to Deaf culture.

- **COMD 300 - Observation, Professional Issues and Writing Skills in Communication Disorders**

(4)

Prerequisite: Passing WPE score; COMD 170. Professional writing skills for the audiologist and speech-language pathologist through observation of clinical experiences and learning about legal and ethical considerations for practice in various work settings.

- **COMD 309 - Human Violence and Individual Change
(also listed as PSY 309)**

(4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block D. Examination of theories, research and practices for accomplishing individual change; application of models of change to alter violent or counterproductive behaviors and attitudes; improving human interaction, and reducing violence/abuse.

GE Theme B

- **COMD 351 - American Sign Language III**

(4)

Prerequisite: COMD 250. Continued study of fundamentals of American Sign Language including comprehension skills, grammatical structures, practice in expressive aspects of the language, and exposure to Deaf culture.

- **COMD 357 - Victimology in Child Abuse and Family Violence**

(also listed as HHS 357)

(4)

Prerequisite: Upper division standing. This course examines victimization's relationship to crime, with emphasis on child abuse and family violence. It will explore issues in the victim's rights movement and types of victimization. Special attention will be given to interventions and preventing secondary trauma.

• **COMD 400 - Hearing Science**

(4)

Prerequisite: upper division standing or permission of instructor. Anatomy, physiology, and pathology of the peripheral hearing mechanism, including theories of hearing and introduction to the central auditory nervous system.

• **COMD 401 - Acoustics of Speech and Hearing**

(4)

Prerequisite: Upper division standing or permission of instructor. Acoustical characteristics of sound, vibration, sound waves and wave motion, sound transmission, sound sources, speech acoustics.

• **COMD 402 - Audiology and Audiometry**

(5)

Prerequisites: COMD 400 or permission from the instructor, upper division standing. Introduction to the basic diagnostic audiological battery of tests, including pure-tone and speech audiometry; introduction to management of the hearing impaired; identification audiometry.

• **COMD 420 - Rehabilitative Audiology**

(5)

Prerequisites: COMD 400, 401, 402. Issues concerning hearing-impaired adults and children: including speech reading, hearing-aid use, counseling for adults, assessment and remediation of speech and language skills, auditory training and educational placement for children.

• **COMD 422 - Advanced Audiology**

(4)

Prerequisites: COMD 420 and acceptance into Audiology Assistant Certificate Program. Advanced audiological testing, including speech, bone conduction, physiologic measures and techniques for pediatric testing; basic understanding of hearing aid selection, programming, and troubleshooting hearing instruments and assistive devices. May be repeated to a maximum of 8 units.

• **COMD 440 - School Audiometry for Nurses**

(4)

Prerequisite: Public Health Nurse or School Nurse Credential Candidate. Anatomy, physiology and pathology of the ear; acoustics of sound and instrumentation; school hearing conservation program; pure tone screening and audiometric testing, including audiogram interpretation and immittance testing.

• **COMD 444 - Clinical Assistant Practicum in Communication Disorders**

(2)

Prerequisites: At least 15 units of COMD coursework and consent of instructor. Opportunity to become a clinical assistant to a graduate clinician providing treatment to a child or an adult with a communication disorder. May be repeated twice for credit. Graded CR/NC.

- **COMD 450 - American Sign Language IV**

(4)

Prerequisite: COMD 351. Continued study of American Sign Language with emphasis on expressive/conversational skills along with continued focus on grammatical and cultural features.

- **COMD 451 - Psychosocial Considerations in Communication Disorders**

(3)

Prerequisites: COMD 471, upper division standing or permission of instructor. Study of the impact of communication disorders on clients and families; focus on how communication disorders affect child-parent and spouse-spouse relationships and the necessity and methodology of using significant others as caregivers/helpers in the learning recovery process.

- **COMD 454L,P - Selected Topics in Communication Disorders**

(1-4)

Prerequisite: Varies with topic. Current issues and interests of students in communication disorders and related disciplines as announced in Schedule of Classes. May be repeated to a maximum of 12 units of credit as subject matter changes.

- **COMD 456 - Development of Verbal Behavior in Childhood
(also listed as CHDV 492)**

(4)

Prerequisites: Upper division standing and consent of instructor. Language acquisition in typically developing children from infancy through late childhood, with a focus on the development of phonology (sounds), lexicon (words), syntax and morphology (sentences) and communicative competence (language use).

- **COMD 457 - Communicating with Abused Children and Violent Families**

(4)

Maltreatment and children's communication development/dysfunction relative to social-emotional and cognitive development; communication demands in judicial, legal, and intervention processes; principles for interacting with and interviewing maltreated children.

- **COMD 458 - Research Methods in Communication Disorders**

(4)

Prerequisites: Upper division standing, COMD 170, 300, MATH/ECON 109. Methods of scientific inquiry in communication disorders including an overview of statistical procedures, basic research design, evaluating clinical data, and critiquing published clinical research.

- **COMD 460 - Advanced Language Development**

(4)

Prerequisite: COMD 456. Advanced study of language acquisition in children from birth to school age, including syntax, phonology, semantics, and pragmatics. Focus on models of language development and learning and language sampling.

• **COMD 461 - Descriptive Phonetics**

(4)

Prerequisite: Upper division standing or consent of instructor. Phonetic-phonemic analysis of language; study of physical and physiological bases of speech. Development of phonetic transcription skills with concentration on broad transcription and introduction to fine transcription.

• **COMD 462 - Anatomy and Physiology of the Speech Mechanism**

(4)

Prerequisite: Upper division standing or consent of instructor. Anatomy and physiology of body structures employed in speech production with emphasis on respiration, phonation, resonance and articulation.

• **COMD 463 - Neuroscience of Communication**

(4)

Prerequisite: COMD 462. Neuroanatomy and the neurophysiological processes involved in speech and language production.

• **COMD 471 - Speech-Language Pathology I: Language Disorders in Children and Adults**

(4)

Prerequisites: COMD 170, 460. Etiology and differential characteristics of language disorders in children and adults; broad overview of principles underlying assessment and treatment of individuals with language disorders.

• **COMD 472 - Speech-Language Pathology II: Fluency and Articulation/Phonological Disorders**

(4)

Prerequisites: COMD 461. Introduction to Fluency and Articulation / Phonological disorders. Description, etiology, phenomenology and introduction to assessment and treatment.

• **COMD 473 - Speech-Language Pathology III: Voice, Cleft Palate and Cerebral Palsy**

(4)

Prerequisite: COMD 463. Introduction to voice disorders and speech disorders related to cleft palate and cerebral palsy. Topics covered include phenomenology, etiology and introduction to assessment.

• **COMD 475 - Cultural/Linguistic Diversity in Communication Disorders**

(4)

Prerequisite: COMD 460. Theoretical considerations and application of current research in cultural/linguistic diversity and second language acquisition in the assessment and therapy of multilingual children and adults with speech-language disorders.

• **COMD 476 - Diagnostic Procedures in Communication Disorders**

(4)

Prerequisite: COMD 471. Introduction to diagnosis and evaluation theory, including specific testing procedures, methods, and materials, as they apply to human communication disorders. Multicultural considerations will be addressed.

- **COMD 477A - Audiology Assistant Pedagogy**

(4)

Prerequisites: COMD 422 and acceptance into Audiology Assistant Certificate Program. For students interested in receiving Audiology Assistant/Aide (AA) registration. Practices/procedures relevant to provision of services consistent with scope of practice as an AA. Laws/ethics governing the use of AA's in California. May be repeated to a maximum of 8 units.

- **COMD 477B - Audiology Assistant Practicum**

(4)

Prerequisites: Grade of B or better in COMD 477A and 52 units in COMD with no course grade less than C. For students interested in receiving knowledge and skills necessary to work as an Audiology Assistant (AA). Experience as an AA in a clinical or school setting, under the direction of licensed audiologist. May be repeated to a maximum of 8 units. Graded CR/NC.

- **COMD 478B - Speech-Language Pathology Assistant (SLPA) Practicum**

(4)

Prerequisites: Grade of B or better in COMD 478A and 52 units of coursework in COMD with no grade less than C. For students interested in receiving a license to work as an SLPA. Experience as an SLPA in clinical/public school setting under the direction of credentialed or licensed speech-language pathologist. Eighty (80) hours of practicum required for State license. Graded CR/NC.

- **COMD 479 - Language, Speech and Hearing Services in the Public Schools**

(3)

Prerequisites: COMD 550, 551, 552, 553. Role of language, speech and hearing specialist in the public schools; development of instructional strategies for effective service delivery; implementation of appropriate techniques and procedures for students with various communication difficulties.

- **COMD 480 - Directed Teaching in Communication Disorders**

(6 – 12)

Prerequisites: EDCI 300, directed teaching requirements, approval of COMD faculty. Supervised practicum in evaluation and treatment of speech, language, and hearing disorders in public school settings. Graded CR/NC. May be repeated for credit up to a maximum of 12 units.

- **COMD 481 - Directed Teaching in the Aphasia Classroom**

(6)

Prerequisite: Successful completion of one quarter of COMD 480 and COMD 490 and/or approval by appropriate department committee. Demonstration of competence in instructional skills in an aphasia classroom or special classroom for language disabled children. Graded CR/NC.

- **COMD 489 - Demonstration of Instructional Competencies**

(6)

Prerequisites: Successful completion of one quarter of OMD 480 and COMD 490 and/or approval by appropriate department committee. Demonstration of competence in instructional skills leading to completion of either 1) the Clinical Rehabilitative Services Credential in Language, Speech and Hearing or 2) the Clinical Rehabilitative Services Credential in Language, Speech and Hearing with Special Class Authorization. Graded CR/NC.

• **COMD 490 - Directed Teaching Laboratory**

(1)

Corequisite: Must be taken concurrently with first quarter of COMD 480. Exploration of issues, research trends, and current practices pertinent to student teaching; provides guidance and support for students during externship assignment. May be repeated for credit up to a maximum of 3 units.

• **COMD 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and final report submitted. May be repeated for credit up to a maximum of 6 units.

Communication Disorders (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Classified graduate standing is required for admission to all 500-level courses.

• **COMD 542 - Clinical Practicum in Audiology - Beginning**

(2)

Prerequisite or Corequisite: COMD 541. Supervised beginning level clinical experience with hearing impaired children and/or adults. May be repeated once for credit.

• **COMD 549 - Central Auditory Processing Disorders (CAPD)**

(3)

Central auditory processing skills and their relationship to language, learning and behavior. The nature of CAPD and issues in the evaluation, diagnosis and treatment of these disorders.

• **COMD 550 - Fluency Disorders**

(4)

Prerequisite: Graduate standing or permission of instructor. Theory, research, and methodology in assessment and treatment of various fluency disorders including stuttering in children and adults.

• **COMD 551 - Language Disorders in Children**

(4)

Prerequisite: Graduate standing or permission of instructor. Theory, research, and methodology in assessment of and intervention in various kinds of language disorders in children; multiethnic, multicultural considerations.

• **COMD 552 - Voice Disorders**

(4)

Prerequisite: Graduate standing or permission of instructor. Theory, research, methodology in diagnosis and treatment of various kinds of functional and organic voice disorders.

COMD 553 - Articulation and Phonological Disorders

(4)

Prerequisite: Graduate standing or permission of instructor. Theory, research, methodology in assessing and intervening in various kinds of articulation and phonological disorders.

• COMD 554 - Neurolinguistic Language Disorders in Adults

(4)

Prerequisite: Graduate standing or permission of instructor. Etiology, phenomenology, diagnosis and treatment of neurologically caused language disorders in adults, focusing on aphasia, dementia, and right hemisphere disorders.

• COMD 555 - Motor Speech Disorders

(4)

Prerequisites: Graduate standing or permission of instructor. Etiology, phenomenology, diagnosis and treatment of neurologically caused motor speech disorders, focusing on dysarthria and apraxia.

• COMD 557 - Dysphagia

(4)

Prerequisites: Graduate standing or permission of instructor. Evaluation and treatment of swallowing disorders including those associated with neurological and oncological problems in children and adults.

• COMD 560 - Seminar: Current Topics in Language

(3)

Prerequisite: Graduate standing or permission of instructor. Selected topics in language development and disorders with emphasis on current issues and /or advanced study. May be repeated to maximum of 6 units.

• COMD 562 - Seminar: Current Topics in Speech

(3)

Prerequisites: Graduate standing or permission of instructor. Selected topics in speech development and disorders with emphasis on current issues and/or advanced study. May be repeated to a maximum of 6 units.

• COMD 565 - Curriculum Considerations for Alternative Service Delivery or Speech and Language Services

(4)

Prerequisites: COMD 550, 551, 553. In depth study of speech and language skills needed for social/academic success. Current principles, methods and materials for assessing and remediating speech and language deficits using a curricularbased or inclusion approach.

• COMD 575 - Intervention Procedures in Speech-Language Pathology

(4)

Prerequisites; Graduate standing or permission of instructor. Study of the science of human behavior and how it relates to the therapy process for persons with communication disorders.

- **COMD 576 - Advanced Diagnostic Procedures in Communication Disorders**

(3)

Prerequisite: Graduate standing or permission of instructor. Statistical underpinnings of test construction/design; issues of validity, reliability, norms and use of scores with emphasis on development of ability to evaluate tests, testing practices and effects of test use.

- **COMD 577 - Evaluation Practicum in Speech-Language Pathology**

(1, 1, 1)

Prerequisite: Graduate standing or permission of instructor. Supervised clinical experience in evaluation of individuals with communication disorders. Must be taken 3 times and may be repeated a fourth time for credit. Graded CR/NC.

- **COMD 579 - Clinical Practicum in Speech-Language Pathology - Beginning**

(2)

Prerequisites: COMD 476; graduate standing or permission of instructor; satisfaction of department standards. Supervised beginning level clinical experience with communicatively handicapped children and adults. May be repeated once for credit.

- **COMD 580 - Clinical Practicum in Speech-Language Pathology - Intermediate**

(2)

Prerequisites: COMD 579; satisfaction of department standards. Supervised intermediate level clinical experience with communicatively handicapped children and adults. May be repeated once for credit.

- **COMD 581 - Clinical Practicum in Speech-Language Pathology – Advanced**

(2)

Prerequisites: COMD 580; satisfaction of department standards. Supervised advanced level clinical experience with communicatively handicapped children and adults. May be repeated once for credit.

- **COMD 582 - Clinical Externship in Speech Language Pathology**

(2,2 or 4)

Prerequisite: B or better in COMD 581. Medical-Center based externship consisting of assessment and intervention of individuals having impairments in speech, language, hearing, swallowing, cognition, and communication modalities due to various neurological etiologies. Graded CR/NC. May be repeated UP to 8 units.

- **COMD 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Master's Degree section of this chapter.

- **COMD 598 - Graduate Directed Study**

(1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be

repeated for credit.

• **COMD 599 - Thesis**

(1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic before registration. Independent research resulting in a thesis; oral defense of thesis required. May be repeated to maximum of 6 units. Graded CR/NC.

Communication (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of a graduate adviser: COMM 431, 499

• **COMD 478A - Speech-Language Pathology Assistant (SLPA) Pedagogy**

(4)

Prerequisite: Forty-eight units of coursework in COMD with no grade less than C. For students interested in receiving SLPA license. Practices/procedures relevant to provision of services consistent with scope of practice as an SLPA. Laws /ethics governing the use of SLPA's in California.

• **COMM 094 - Mainstream American Dialect**

(4)

Sounds, intonation, and rhythm of mainstream American dialect to modify student's own accent and pronunciation. (Limited to students whose dialects are not standard American English.) Graded CR/NC. No credit toward baccalaureate.

• **COMM 130 - Introduction to Human Communication**

(4)

Overview of human communication across contexts. Introduction to Communication as a discipline; survey of areas and methods comprising the field.

• **COMM 150 - Oral Communication**

(4)

Introduction to effective oral communication through study and experience in analysis, synthesis, and presentation of informative and persuasive discourse in a public speaking forum.

*C-ID COMM 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE A2 COMM 150 is prerequisite to all Communication major courses with numbers 300 and higher.

• **COMM 151 - Speech Proficiency Assessment for Teachers**

(1)

Review of theory and practice of public speaking for classroom teachers. Workshop and assessment of speaking skills. Open only to students currently or previously enrolled in EDCI 300. Graded CR/NC.



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HELP

Course Filter

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Communication (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of a graduate adviser: COMM 431, 499

• COMM 176 - Argumentation

(4)

Principles of argumentation: reasoned discourse, methods of logical analysis and reflective thinking, practical application through adaptation of materials to audience situations, argumentative speech, kinds and forms of debate about current issues.

*C-ID COMM 120

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE A3

• COMM 230 - Communication Strategies in Conflict Management

(4)

This course examines the communication theories and strategies underlying the nature of conflict in contemporary society. Provides students with the necessary skills to effectively manage conflict.

GE E

• COMM 267 - Introduction to Oral Interpretation

(4)

Study of communicative dimensions of literature through analysis and performance.

• COMM 268 - Group Performance Practicum

(2)

Lecture-workshop in ensemble performance of literature. Techniques of chamber theatre, reader's theatre, story theatre production and script adaptation. May be repeated to maximum of 8 units.

- **COMM 275 - Interpersonal Communication**

(4)

Introductory study of interpersonal communication; verbal and nonverbal communication in face-to-face interaction; how individuals assume roles as message senders, receivers; interpersonal perception and adaptation; barriers to interpersonal communication.

*C-ID COMM 130

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

- **COMM 276 - Argumentation and Reasoned Advocacy**

(4)

Prerequisites: COMM 150 and COMM 176. Principles of reasoned advocacy: practical application of argumentation through creation and adaptation of reasoned appeals to audience situations.

- **COMM 277 - Forensics**

(2)

Introductory workshop in intercollegiate forensic activities. Maybe repeated to maximum of 12 units. Graded CR/NC.

- **COMM 278 - Problem Solving through Group Discussion**

(4)

Principles of decision-making and interaction in group communication situations, development of discussion, participation, and leadership skills for business, school, and community.

*C-ID COMM 140

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

- **COMM 290 - Mediated Communication**

(4)

Prerequisite: COMM 130 or permission of instructor. Introduction to mediated communication technologies, including internet, databases, and emerging technologies. Emphasis on critical, analytical assessment of technologies' effects on intercultural, public and interpersonal communication

- **COMM 300 - Applied Writing in Communication Studies**

(4)

Prerequisite: Upper division standing. Writing practicum in historical, critical, and empirical approaches to communication studies; emphasizing language usage in description, exposition, narration, persuasion, and research writing; techniques include observation, editing, and criticism.

- **COMM 330 - Organizational Studies**

(4)

Analysis of organizational communication; classical and contemporary theories, practices, and processes in organizational communication. Major communication themes, metaphors, and issues of the contemporary workplace. May include service learning option.

• **COMM 340 - Interviewing**

(4)

Dyadic communication in formal and informal settings. Understanding of informative, persuasive, medical, journalistic, legal, and employment interviews.

• **COMM 342 - Rights and Justice in Communication and Politics**
(also listed as POLS 342)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Freedom of communication, political rights, diversity, and justice. The evolution of these rights in the United States; analysis of contemporary problems, global implications, and potential solutions in our multicultural world. Some sections of this course will be offered online.

GE Theme H ; Approved diversity course

• **COMM 367 - Performance Studies**

(4)

Prerequisite: COMM 267 or 277 or 377 or permission of instructor. Performance as a paradigm for understanding text and behavior. Analysis and performance of literature, cultural performance, and performance art included with emphasis on in-class performance and fieldwork.

• **COMM 370 - Business and Professional Communications**

(4)

Study and application of theories of communication in business contexts and situations. Topics include: dyadic, group, organizational, public, and mediated communication interactions, interviews, and presentations.

• **COMM 371 - Persuasive Communication**

(4)

Study and application of rhetorical and social-psychological principles of persuasion. Consideration of attitude change models and behavioral studies of variables affecting persuasion. Opportunity for preparation and criticism of persuasive discourse.

• **COMM 372 - Media, Communication and the Environment**

(4)

Prerequisites: Completion of the Basic Subjects (Block A) and one course from Block D. The global environment as represented in mass media and communication; the interaction of the individual and the popular press, public communication, and film; effectiveness of public environmental communication campaign.

• **COMM 377 - Advanced Forensics**

(2)

Prerequisite: COMM 277 Faculty supervised workshop preparing for University-sponsored speech activities, including speech and debate tournaments. May be repeated to maximum of 12 units.

- **COMM 380 - Introduction to Rhetorical Studies**

(4)

Prerequisite: COMM 150. Introduction to the study of rhetoric and rhetorical theory. Study of the nature, function and scope of rhetoric emphasized.

- **COMM 385 - Sex and Gender in Language and Literature**
(also listed as ENGL 385)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of concepts of sex, gender as experienced in language and literature. Comparative language behavior of women and men as revealed in research on communication and in representative literary works, both classical and modern.

GE Theme C ; Approved diversity course

- **COMM 389 - Intercultural Communication in the Urban Environment**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Processes, problem of intercultural communication in multi-cultural, multiethnic urban environments. Focus on comparative cultural analyses, impact of social, gender, political, economic, interpersonal forces on intercultural interaction in urban life.

GE Theme D ; Approved diversity course

- **COMM 390 - Technology and Human Interaction**
(also listed as MSCM 390)

(4)

Prerequisite: COMM 290 or TVF 220 or permission of instructor. Comparison of new communication technologies with other forms of interaction. Attention given to interactive roles and effects of technologies on interpersonal, public, and intercultural communication.

- **COMM 395 - Sociocultural Impact of Globalization for the Developing World**
(Also listed as LBS 395)

(4)

Prerequisites: Completion of the lower division GE Basic Subjects and at least one course each from Blocks B, C, and D. Critical examination of globalization and its economic, political, and sociocultural challenges for the developing world. Emphasis on globalizing institutions, transborder flows, international communication, social change, and cultural identity.

GE Theme A

- **COMM 396 - Publicity and Promotions**

(4)

Prerequisite: COMM 300 or equivalent. Methods, planning and tools used in developing company, community and institutional public relations programs. Focuses on publicity and promotional techniques, media relations, copy preparation, news releases, and publications.

- **COMM 420 - Human Side of Computers and Information Technology**

(4)

Computers and information technology studied as part of the larger culture through critical analyses and focus on the human

communications, aesthetic, ethical, pedagogical, social, cultural, cognitive, educational, policy and historical issues involved. (Cross-listed with EDIT 420)

- **COMM 430 - Dynamics of Organizational Communication**

(4)

Prerequisite: COMM 330. How global competition, social phenomena, new philosophies, new technologies, and metaphors for looking at organizations shape the dynamic landscape of organizations and affect the way people communicate and conduct business.

- **COMM 431 - Internship in Organizational Communication**

(4)

Prerequisite: COMM 430. organizations under academic supervision; emphasis on student intern's ability to diagnose and solve organizational communication problems. May be repeated once for credit.

- **COMM 435 - Communication and Leadership**

(4)

Prerequisite: COMM 330 or permission of instructor. Review theories of communication leadership. Emphasis on the study of communication skills central to performing successfully as a leader in a variety of organizational contexts.

- **COMM 440 - Relational Communication**

(4)

Prerequisite: COMM 275. Analysis of current theory and research on communication in intimate and personal relationships; how individuals develop and maintain relationships; how gender, culture and social context affect communication in interpersonal interactions.

- **COMM 450 - Communication Theory**

(4)

Survey and analysis of behaviorally oriented theories and their variables in the communication process.

- **COMM 454 - Selected Studies in Communication**

(1–4)

Prerequisites: Varies with topic; see Schedule of Classes for specific prerequisites. Intensive study of selected topics in communication. May be repeated to a maximum of 12 units for credit as subject matter changes.

- **COMM 459 - Intercultural Business Communication**
(also listed under MKT 459)

(4)

Prerequisite: MGMT 301 or COMM 300. Analytical approach to understanding cultures in order to do business effectively. Steps in achieving intercultural communication competence, framework for understanding cultures, nonverbal communication, document organization from cultural priorities, and negotiation.

- **COMM 462 - Nonverbal Communication**

(4)

Body motion, eye and facial behavior, paralanguage, touch, proxemics, physical characteristics, artifacts and environmental factors as they affect communicative exchanges.

- **COMM 463 - Language and Communication Behavior**

(4)

Nature, origin, and use of speech and language in social, cultural, symbolic, and functional contexts; investigation and analysis of discourse and behavioral effects; significance of communication competence.

- **COMM 467 - Theory and Method in Performance Studies**
(also listed as TAD 467)

(4)

Prerequisite: Upper division course in COMM, TA or DANC. Introduction to major theoretical perspectives in performance studies and to key methodologies for investigating performance in/as culture. Central concepts include social drama and performance ethnography.

- **COMM 468 - Performance and Social Change**
(also listed as TAD 468)

(4)

Prerequisite: COMM 367 or 467 or upper division theory course in TA, DANC or rhetoric. Aesthetic, pedagogical underpinnings of performance and social change. Relationships between performance and liberation in avant garde works and across cultures. Theoretical and pragmatic concerns as these emerge in production.

- **COMM 470 - Theories of Rhetoric: Survey and Analysis**

(4)

Prerequisite: Upper division standing. Principal theories of rhetoric from classical Greece to the modern period; historical perspectives on communication and social influence; impact of changing political, psychological, sociological, and technological contexts.

- **COMM 471 - Rhetoric and Religion**

(4)

Prerequisite: COMM 380 or permission of instructor. Relationship between rhetoric and religion in traditional and contemporary rhetorical theory. Course evaluates rhetorical and public discourse dealing with religion, and religious discourse dealing with rhetoric.

- **COMM 473 - Rhetoric and Social Controversy**

(4)

Prerequisite: COMM 380 or permission of instructor. Analysis of rhetorical problems associated with social controversies. The nature, forms, stages and roles of social controversies are examined through the study of rhetorical public discourse in the political process.

- **COMM 474 - Studies in National and International Public Discourse**

(4)

Prerequisite: One COMM course. Analysis and evaluation of national and/or international discursive rhetoric; some focus on great speeches and speakers; emphasizes diversity of communicative expression in social, political, and cultural movements and campaigns.

- **COMM 475 - Feminism and Communication**

(4)

Prerequisites: COMM 330, COMM 367 or permission of instructor. Survey of critical perspectives on gender in communication. Particular attention is paid to social construction of gender and sexuality.

- **COMM 477 - Qualitative Methods in Communication**

(4)

Prerequisites: COMM 380 or 330 or 367. Survey of qualitative communication research methods; critical analysis of representative studies; research proposal writing for qualitative projects. May include service learning (optional).

- **COMM 478 - Group Communication: Dynamics of Leadership and Participation**

(4)

Prerequisite: A course in group discussion. Advanced study of communication processes in small groups and effects of leadership and participation; development of communication sensitivity.

- **COMM 479 - Sex Roles in Communication**

(4)

Sex as a variable influencing human communication in dyads, small groups, organizations, families; speaker-audience interaction; male-female differences in use of language, and nonverbal behavior.

- **COMM 482 - Rhetorical Theory: Contemporary Developments**

(4)

Prerequisite: COMM 470. Survey of contemporary theories of rhetoric and communication.

- **COMM 483 - Campaign Communication**

(4)

Prerequisite: COMM 380 or permission of instructor. Variable content course focusing on contemporary campaigns. Strategies of communication in American political campaigns including public discourse and media coverage. May be repeated to 8 units as content changes.

- **COMM 484 - Political Communication**

(4)

Prerequisite: COMM 380 or permission of the instructor. Analysis and evaluation of political communication from the perspectives of contemporary rhetorical theory and cultural theory. Political communication theorized through the analysis of case studies.

- **COMM 485 - Rhetorical Criticism**

(4)

Prerequisite: One COMM course. Nature and function of rhetorical criticism; survey of approaches, theories, and systems of rhetorical analysis from classical to contemporary. Practice in critical appraisal of various types of communication.

• **COMM 486 - Communication and Cultural Studies**

(4)

Prerequisite: Upper division course in Communication Studies. Survey of history, primary texts, and representative studies in cultural studies. Emphasis on cultural studies of media, technology, and communication.

• **COMM 487 - Quantitative Research Methods in Communication**

(4)

Prerequisite: Upper division standing. Introduction to methodology of experimental research and critical analysis of representative studies in communication.

• **COMM 489 - Intercultural Communication**

(4)

Description and analysis of cultural influences on human communication acts; codes and paralinguistic elements; focus on communication between cultures in an urban setting.

• **COMM 490 - Studies in Children's Speech Arts**

(4)

Theory and criticism of creative dramatics, choric interpretation and storytelling.

• **COMM 491 - Instructional Theories in Communication**

(4)

Prerequisites: Senior standing, 20 units of upper division COMM courses. Principles of communication in educational settings, literary study, survey, critical review, and application of contemporary theories and trends in instructional communication.

• **COMM 492 - Communication Training in Organizations**

(4)

Prerequisite: COMM 330 or permission of instructor. Study of communication training and development process. Application of organizational communication theories through organizational assessment, creation of training objectives and evaluation of training programs.

• **COMM 494 - Communication Behavior in Childhood**

(4)

Oral language and communicative behavior in children; studies in speech and language experiences basic to development of communication skills competence.

- **COMM 495 - Principles and Practices of Public Relations**

(4)

Prerequisite: COMM 300 or equivalent. Fundamentals of theory and application for the public relations profession, with emphasis on the dynamics of organizational communication as it pertains to community relations, the media, public opinion, and the political environment.

- **COMM 497 - Managing Problems in Public Relations**

(4)

Advanced study of public relations issues, with emphasis on contemporary problems faced by business organizations and other institutions. Analysis of case studies in public relation problems and crisis management.

- **COMM 498 - Capstone in Communication**

(4)

Prerequisites: COMM 477 or COMM 487, senior standing within the last 20 units before graduation and consent of instructor. This capstone course synthesizes the subfields of communication and assesses students' achievement of its foundational knowledge (basic theoretical and methodological understanding) culminating in a senior thesis in which students focus on a central theme taught in the course.

- **COMM 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated to a maximum of 12 units for credit.

- **TVF 300 - Writing and Media Ethics**

(4)

Prerequisites: ENGL 102, TVF 220, TVF 224, and upper division standing. Writing practicum in historical and critical approaches to media studies focusing on the subject of media ethics. Emphasizing language usage in description and persuasion as well as effective written argumentation.

Communication (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of a graduate adviser: COMM 431, 499

Classified graduate standing is required for admission to all 500-level courses

- **COMS 500 - Graduate Scholarship in Communication Studies**

(4)

Seminar examining current foci in the fields of Communication Studies. Designed to investigate directions or advanced inquiry within the discipline.

- **COMS 501 - Seminar: Research Methods in Telecommunications and Film**

(4)

Prerequisite/Corequisite: COMS 500. Investigation of conceptual and procedural aspects of quantitative and qualitative research techniques relevant to the advanced study of mass media.

• **COMS 502 - Seminar in Quantitative Communication Research Methods**

(4)

Prerequisites: COMS 500, undergraduate statistics or quantitative research methods course. Quantitative research design and analysis in communication research. Emphasis on research design, sampling, descriptive and inferential statistics in analysis, and presenting findings.

• **COMS 503 - Seminar in Qualitative Communication Research Methods**

(4)

Prerequisite: COMS 500. This seminar presents qualitative/interpretive research methodologies used in Communication Studies and prepares students for designing, completing, and evaluating qualitative projects.

• **COMS 505 - Seminar: Media Theory and Criticism**

(4)

Survey of film theory and criticism from the classic theorists and critics to contemporary issues and debates.

• **COMS 506 - Seminar: Television Studies**

(4)

Critical and historical examination of American television focusing on methods and issues relating to scholarship in the field.

• **COMS 507 - Seminar: Post World War II Film and Television History**

(4)

Prerequisite: COMS 501. Variable topic seminar on seminal issues in film and television history since World War II. May be repeated to a maximum of 8 units.

• **COMS 508 - Media Arts, Theatre & Society**
(also listed as TVFT 508)

(4)

Historical and current relationship between media arts, theatre and society. Study scholars and practitioners who address questions regarding contemporary roles, potentials and impacts of these arts and professions.

• **COMS 509 - Entertainment Industry Practices**
(also listed at TVFT 509)

(4)

Prerequisite: TA 500 or COMS 500. This course acquaints students with the structures of television, film and theatre industries as well as the positions, responsibilities, of those involved in the development and execution of production.

• **COMS 510 - Seminar: Narrative Studies in Film and Television**

(4)

Prerequisites: COMS 501, COMS 505. Examination of theories, structures, and procedures of narrative in film and television.

• **COMS 515 - Seminar: Cultural Studies**

(4)

An examination of the history, theories and scholarship of cultural studies, with a particular focus on popular culture as a site of social power dynamics and contestation. May be repeated to a maximum of 8 units.

• **COMS 520 - Seminar: Documentary Film and Television**

(4)

Prerequisite: COMS 500. Examination of the theory and practice of documentary as narrative, information, education, catalyst for social maintenance and change.

• **COMS 530 - Seminar: Organizational Communication**

(4)

Prerequisites: COMM 430, 450, 463, or 478. Contemporary theoretical and methodological issues or constructs in organizational communication. May be repeated to maximum of 8 units with adviser approval.

• **COMS 540 - Seminar: Interpersonal Communication**

(4)

Prerequisites: COMM 450, 478, or 487. Contemporary theoretical and methodological issues and constructs in interpersonal communication. May be repeated to maximum of 8 units with adviser approval.

• **COMS 550 - Seminar: Communication Theory**

(4)

Prerequisite: COMM 450 or 487. Examination of theoretical perspectives, principles of theory building, and new developments in communication research. May be repeated to maximum of 8 units with adviser approval.

• **COMS 554 - Selected Topics in Communication Studies**

(1–4)

Prerequisite: Varies with topic; see Schedule of Classes. Intensive study of selected topics in communication studies. May be repeated for credit as topic changes.

• **COMS 560 - Seminar: Language and Communication Behavior**

(4)

Prerequisite: COMM 450, 463, or 494. Contemporary theories, research perspectives, and subject areas in language and communication behavior. May be repeated to maximum of 8 units with adviser approval.

• **COMS 562 - Seminar: Theories of Mass Media**

(4)

Prerequisite: COMM 450 or 470 or 482. Research and theory in mass media since television; analysis of media situations, messages and ideological effects. May be repeated once with adviser approval.

- **COMS 564 - Seminar: Adaptation**

(4)

Prerequisite: COMS 510. Examination of the process of screen and television adaptation. Study of theories of the cinematic and television as pertaining to translations of literary and theatrical narrative, character, and space.

- **COMS 565 - Seminar: Feature Film Writing**

(4)

Prerequisites: TVF 465; COMS 510. The study and practice of feature film writing using close readings of professional and student screenplays. Discussion of screenwriting career planning. May be repeated once for credit with adviser approval.

- **COMS 566 - Seminar: Narrative Television Writing**

(4)

Prerequisites: TVF 465; COMS 510. The study and practice of television writing using close readings of professional and student teleplays. Discussion of television screenwriting and career planning. May be repeated once for credit with adviser approval.

- **COMS 567 - Seminar: Theories, Methods and Practices in Performance Studies**

(4)

Prerequisite: COMM 367. Analysis of main theories of art of interpretation, with special emphasis on their bearing on contemporary theory and practice. May be repeated once for credit with adviser approval.

- **COMS 572 - Seminar: International Public Discourse**

(4)

Prerequisites: COMM 472, 485. Intensive study of major international orators, their ideas, style, rhetorical strategies and roles in social and aesthetic movements and in world history. May be repeated once for credit with adviser approval.

- **COMS 573 - Seminar: American Public Address**

(4)

Prerequisites: COMM 473A or 473B; 485. Examination and analysis of speeches and debates about selected major issues in American affairs. May be repeated once for credit with adviser approval.

- **COMS 576 - Seminar: Argumentation, Discussion, and Debate**

(4)

Prerequisite: One upper division course in rhetorical theory. Analysis of significant literature, major trends, and theories of argumentation, discussion, and debate; intensive study of relationship of those areas to each other. May be repeated once for credit with adviser approval.

- **COMS 580 - Seminar: Rhetorical Studies**

(4)

Prerequisite: At least one upper division course in rhetoric. Selected studies in rhetorical theory and criticism in classical and contemporary

contexts. focus on the history and practice of rhetorical communication and its influence in politics, culture, and society.

• **COMS 589 - Seminar: Intercultural Communication**

(4)

Prerequisite: COMM 489. Contemporary theories, research perspectives and significant cultural influences relating to communication between cultures. May be repeated once for credit with adviser approval.

• **COMS 591 - Seminar in Instructional Communication**

(4)

Theories of instructional communication with an emphasis on instructional communication theories and applying principles of instructional communication in higher education settings.

• **COMS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **COMS 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated for credit.

• **COMS 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 6 units. Graded CR/NC.

• **COMS 599S - Script Thesis**

(1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, department approval of topic prior to registration. Independent research and writing resulting in an original screen or teleplay and analytical report. Oral examination on script and report required. May be repeated to maximum of 6 units. Graded CR/NC.

Computer Science (Undergraduate)

• **CS 101 - Introduction to Higher Education for Computer Science Majors**

(2)

Exploration of skills and resources that will help students to obtain a baccalaureate degree in the Department of computer Science. This course must be taken once during the first two quarters at Cal State L.A.. Graded CR/NC. NIS Account Required.

• CS 120 - Introduction to Website Development

(3)

Prerequisite: Computer Literacy. Development of client-side web pages using hypertext markup language ([d][x]html), Cascading Style Sheets (CSS), Javascript, and computer animation software. Lecture 2 hours, laboratory 3 hours. Graded ABC/NC.

• CS 122 - Using Relational Databases and SQL

(3)

Prerequisite: Computer literacy. An introduction to relational databases and the SQL query language. Database modeling as collection of objects and their relationships; Entity relationship model. SQL as a query language. Grouping and other advanced queries. Lecture 2 hours, laboratory 3 hours. Graded ABC/ NC.

• CS 160 - Introduction to Computers

(3)

Prerequisite: GE mathematics requirement. History of computers; hardware, software including data base systems, word processors, spreadsheets, programming languages; social and ethical implications. Lecture 2 hours, laboratory 3 hours. Offered CR/NC only.

• CS 190 - BASIC Programming

(2)

Prerequisite: One year of high school algebra. Introduction to computer programming using BASIC language. Applications will assume a minimal mathematics background. Does not fulfill mathematics major requirement. Lecture 1 hour, laboratory 3 hours.

• CS 201 - Introduction to Programming

(5)

Prerequisite: MATH 104B or consent of the instructor. Algorithm development for structured programming; designing, coding, debugging, and documenting programs. Laboratory activities on problem analysis and software development. Lecture 4 hours, laboratory 3 hours. Graded ABC/ NC

• CS 202 - Introduction to Object Oriented Programming

(5)

Prerequisite: CS 201, recommended: MATH 206. Algorithm development for Object Oriented Programming; designing, coding, and documenting programs. Laboratory activities on problem analysis and software development. Lecture 4 hours, laboratory 3 hours. Graded ABC/NC

• CS 203 - Programming with Data Structures

(5)

Prerequisite: CS 202, recommended: MATH 207, MATH 248. Advanced programming techniques; elementary data structures such as dynamic arrays, linked lists, stacks, queues, and trees, sorting and searching algorithms. Laboratory activities on problem analysis and software development. (Lecture 4 hours, laboratory 3 hours) Graded ABC/ NC



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Course Filter

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Computer Science (Undergraduate)

• CS 242 - C Programming

(4)

Prerequisites: MATH 104B or consent of the instructor. Introduction to program design and problem solving using the C programming language. Programming topics include control structures, functions, arrays, pointers, and file I/O.

• CS 245 - Introduction to Computer Organization, Operating Systems and Networks

(3)

Prerequisite: CS 202. Essential information about computer organization, operating systems and computer networks for programmers. Topics include: computer organization, data representation, the Windows/UNIX/LINUX operating system; and computer networks. Lecture 2 hours, laboratory 3 hours. Graded ABC/NC

• CS 290 - Introduction to FORTRAN Programming

(2)

Prerequisite: MATH 206. Elementary computer programming using FORTRAN language. Lecture 1 hour, laboratory 3 hours. No credit toward Computer Science major.

• CS 301 - Computer Ethics and the Societal Impact of Computing

(2)

Prerequisite: CS 203. Professional and ethical responsibilities of computer scientists, including: intellectual property, piracy, hacking, viruses, liability, privacy, and computer crime. Societal impact of computing, including: social networks, patents, 3D printing, and economic transformations. Graded ABC/ NC.

• CS 312 - Data Structures and Algorithms

(4)

Prerequisites: CS 203, MATH 208, MATH 248. Methods for the design and analysis of correct and efficient computer algorithms and

advanced data structures. Applications to classical problems of searching, sorting, graph optimization and combinatorial optimization.

- **CS 320 - Web and Internet Programming**

(3)

Prerequisites: CS120, CS 122, CS 203. Server-side internet programming. Development of full-fledged Internet enterprise services and applications. Laboratory activities on application development (Lecture 2 hours, laboratory 3 hours).

- **CS 332C - Object-Oriented Programming with C++.**

(2)

Prerequisite: CS 203. Breadth and depth of C++ programming concepts; control statements, functions, pointers, classes, application development using the object-oriented paradigm. Advanced topics such as I/O, templates, exception handling, Standard Template Library (STL).

- **CS 332F - Functional Programming**

(2)

Prerequisite: CS 203. Programming in functional nonprocedural programming language such as Haskell. Programming in a language (a) in which functions are values, (b) without assignments, (c) with very strong typing, (d) with lazy evaluation, and with other features common to the functional programming paradigm.

- **CS 332L - Logic Programming**

(2)

Prerequisite: CS 203. Programming in a non-procedural logic programming language such as Prolog. Programming in a language that supports unification and backtracking and in which the execution of a program is the search for values that satisfy a declarative specification.

- **CS 337 - Software Design**

(3)

Prerequisite: CS 203. Methodologies and tools for requirements analysis and design of large complex software system; process models, project planning, quality assurance; Ethical issues in software design; group laboratory project; oral and written presentations. Lecture 2 hours, laboratory 3 hours.

- **CS 340 - Assembly Language and Systems Programming**

(4)

Prerequisite: CS 245. Assembly language; addressing techniques; subroutines; macros; system input/output; interrupts and traps; assemblers; linkers; loaders; macroprocessors.

- **CS 342 - Object Oriented Programming Using C++**

(4)

Prerequisite: CS 242. Concepts and techniques of object-oriented programming; structured design and modular construction; use of C to demonstrate structured programming; use of C++ to demonstrate fundamentals of object-oriented programming.

- **CS 345 - UNIX and Shell Programming**

(4)

Prerequisites: CS 203. A theoretical and practical study of the UNIX operating system and shell programming. Topics: Shell commands and utilities, UNIX file system, UNIX shells, UNIX \ graphical user interfaces, and shell programming.

- **CS 370 - Parallel and Distributed Programming**

(4)

Prerequisites: CS 203, CS 245. Parallel programming techniques; abstract models of hardware and operating systems to support parallel programs.

- **CS 386 - Introduction to Automata Theory**

(4)

Prerequisites: CS 202 and MATH 248. Formal approach to automata theory; finite state machines, regular expressions, regular languages. Develops mathematical foundation for computer science.

- **CS 398 - Cooperative Education**

(1–4)

Prerequisites: Courses appropriate to the work experience: approval by major department Computer Science coordinator. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units.

- **CS 422 - Principles of Data Base Systems**

(4)

Prerequisites: CS 122, and 312. Normal forms, database system architecture, query optimization, file structures, transaction management, data warehouses, object-oriented databases, databases for e-commerce.

- **CS 437 - Software Engineering**

(5)

Prerequisites: CS 312, CS 320, CS 337 and completion of the GVAR. Methodologies and tools for the development, implementation, integration, testing, evaluation, and maintenance of software systems. Software quality assurance; ethical issues in software development. Group laboratory project and oral and written presentations. This course satisfies the upper division writing requirement. Lecture 4 hours, laboratory 3 hours.

- **CS 440 - Introduction to Operating Systems**

(4)

Prerequisites: CS 245, 312. Resource, memory and process management; concurrent processing; networking and distributed systems.

- **CS 447 - Computer Networks Configuration and Management**

(4)

Prerequisite: CS 440. Network topology, architecture, and related software. Topics covered include designing a LAN and an internetwork, developing access lists, configuring routing protocols, customize switch configurations and manage device configurations.

- **CS 450 - Foundations of Computer Graphics**

(5)

Prerequisites: CS 203, MATH 208, AND MATH 255. Programming in object oriented graphics environment implementing primitive operations in two and three dimensions. Image modeling using affine transformations, polygonal meshes and other topics. Lecture 4 hours, laboratory 3 hours.

- **CS 451 - Multimedia Software Systems**

(4)

Prerequisite: CS312 or CS 342. Introduction to multimedia information and processing. Topics: basic signal processing, color, space, formations of image, video, and audio data. Current standards and the state-of-the-art techniques for multimedia systems. Lecture 4 hours.

- **CS 454 - Topics in Advanced Computer Science**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in computer science, as announced in Schedule of Classes. May be repeated to a maximum of 20 units of credit as topic changes.

- **CS 460 - Artificial Intelligence**

(4)

Prerequisite: CS 312. Knowledge representation; problem solving strategies and search algorithms; applications from such areas as theorem proving, expert systems, natural language processing, robotics, and pattern recognition.

- **CS 461 - Machine Learning**

(4)

Prerequisite: CS 312. Means that enable computers to perform tasks for which they were not explicitly programmed; learning paradigms include inductive generalization for examples, genetic algorithms, and connectionist systems such as neural nets.

- **CS 470 - Computer Networking Protocols**

(4)

Prerequisite: CS 245, 312. Study of computer network layered architecture and protocols. Topics to be covered include: network architecture, data link layer, addressing, LAN, network layer, transport layer and network applications.

- **CS 480 - Cryptography and Information Security**

(4)

Prerequisites: CS 245 and CS 312. This course covers both principles and practice of cryptography and information security. Topics covered include basic concepts of cryptology, classical ciphers, modern symmetric ciphers (DES, IDEA, RC5), Advanced Encryption Standard (AES), public key cryptography, data integrity and digital signature schemes.

- **CS 486 - Computability and Intractability**

(4)

Prerequisite: CS 386. Theory of Computing; nondeterminisms, decidability and unsolvable problems; NP completeness and intractable computations.

• **CS 488 - Compilers**

(4)

Prerequisites: CS 312, 332, 386. Compiler construction; lexical analysis, including regular languages and finite-state acceptors; syntactic analysis, including parsing techniques and grammars; code generation and optimization.

• **CS 490 - Computer Science Recapitulation**

(2)

Prerequisite/corequisites: MATH 270, CS 386, 437, 440, EE 444. A recapitulation of the primary concepts of Computer Science in preparation for the Major Field Achievement Test.

• **CS 491A - Software Design Laboratory**

(3)

Prerequisites: CS 312, 320, 337, 386, and senior standing. Approaches to software design, including Design Patterns and other strategies for designing software systems. Each student will propose a substantial, individual software project, resulting in a preliminary report and project presentation. Laboratory 9 hours. Graded ABC/NC

• **CS 491B - Software Design Laboratory**

(3)

Prerequisite: CS 491A. Software design, including Design Patterns and other strategies for designing software systems. Each student will complete the project initiated in CS 491A resulting in a formal report and project presentation. Laboratory 9 hours. Graded ABC/NC

• **CS 496A - Software Design Laboratory**

(2)

Prerequisites: CS 312, 320, 337, 386, and senior standing. Approaches to software design, including Design Patterns and other strategies for designing software systems. Students working individually or as a group will propose a substantial software project, resulting in a preliminary report and project presentation. Laboratory 6 hours. Graded ABC/NC

• **CS 496B - Software Design Laboratory**

(2)

Prerequisite: CS 496A. Software design, including Design Patterns and other strategies for designing software systems. Students will make further progress on the project initiated in CS 496A resulting in an intermediate report and project presentation. Laboratory 6 hours. Graded ABC/NC

• **CS 496C - Software Design Laboratory**

(2)

Prerequisite: CS 496B. Software design, including Design Patterns and other strategies for designing software systems. Students will complete the project initiated in CS 496AB resulting in a final formal report and project presentation. Laboratory 6 hours. Graded ABC/NC

- **CS 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Computer Science (Graduate)

- **CS 512 - Design and Analysis of Algorithms**

(4)

Prerequisite: CS 312. Design of complex algorithms. Algorithms for solving frequently occurring problems in computer applications. Computationally intractable problems, heuristics and partial solutions. Optimization techniques. Analysis of algorithms for specific problems of interest.

- **CS 520 - Web Programming**

(4)

Prerequisite: CS 320. Current issues in web programming. Topics include: semantic networks; architectures for web-based applications; dynamic and evolutionary system deployment.

- **CS 522 - Advanced Database Systems**

(4)

Prerequisites: CS 422, CS 491AB. Current topics in database systems: distributed databases, transactions, and concurrency control; nested and long-running transactions; semantic and object-oriented data models; engineering design databases; temporal, multi-media, and real-time databases.

- **CS 537 - Advanced Software Engineering**

(4)

Prerequisites: CS 437, CS 491AB. Managing software development projects; the capability maturity models and personal performance processes; software cost estimation; risk management; extreme programming. Engineering systems for survivability. Estimating system performance.

- **CS 540 - Advanced Topics in Operating Systems**

(4)

Prerequisite: CS 440. Asynchronous concurrent processes; mutual exclusion and deadlocks; virtual storage organization and management; multiprocessing; auxiliary storage management; distributed operating systems; performance measurement; operating systems security.

- **CS 550 - Advanced Computer Graphics**

(4)

Prerequisites: CS 312, 450. An advanced course in computer graphics with emphasis on rendering, Polygonal meshes, Bezier curves and surfaces, line and back face removal, shading, lighting, and texture algorithms.

- **CS 560 - Advanced Topics in Artificial Intelligence**

(4)

Prerequisite: CS 460. Examination of a sub field within artificial intelligence such as natural language processing, expert systems, robotics, data mining, computer vision, speech recognition, intelligent agents or others.

- **CS 565 - Reliable Computing**

(4)

Prerequisites: CS 312 and CS 386. Errors, faults, and failures. Software and system safety. Reliability metrics: mean time between failures. Techniques for fault tolerance: redundancy and robustness. Fault detection, isolation, correction, and recovery.

- **CS 570 - Networks and Distributed Processing**

(4)

Prerequisites: CS 470. Study of computer network architecture and protocols. Routing, congestion and flow control. Distributed algorithms, client-server models, remote procedure calls, load balancing, and security. Interprocess communication and protocols. Distributed transaction processing.

- **CS 575 - Human Issues in Computing**

(4)

Prerequisites: CS 386, CS 491AB. Methods and techniques for maximizing the usability of computer systems and practices User centered design, designing for diverse users, physiological, psychological, and sociological issues. Human factors in software development.

- **CS 580 - Advanced Information Security**

(4)

Prerequisite: CS480. Advanced course on information security. Topics covered include access control, security model, security policy, digital signatures, digital cash, Secure Electronic Transaction (SET), public key infrastructure, secure election protocols.

- **CS 581 - Computer and Network Security**

(4)

Prerequisite: CS 447 or CS 470. This course exposes students to various techniques related to defending your computers and networks. Topics covered include Denial-Of-Service attacks, packet analyzers, host-based intrusion detection and honeypots etc.

- **CS 586 - Theory of Computing**

(4)

Prerequisite: CS 486. Mathematical models of computation. Recursive function theory and primitive recursion. Computability and logic. Church's Thesis, Wegner's interaction machines, and quantum computation.

- **CS 588 - Languages and Translators**

(4)

Prerequisite: CS 488. Advanced programming language and translator concepts. Language runtime systems such as the Java virtual machine. Term rewriting systems and XSL, Programming language semantics.

- **CS 590 - Advanced Software Architecture**

(4)

Prerequisite: CS 491AB. Design and development of large-scale, typically distributed, often multi-language, software systems. Integration of existing (legacy) systems. Multiple architectural views and their representation and documentation. Integrative and connective platforms, standards, and technologies.

- **CS 594 - Graduate Seminar**

(4)

Prerequisite: instructor consent. Special course offering on topics of current interest in computer science. May be repeated to a maximum of 8 units on different topics.

- **CS 596 - Comprehensive Examination**

(0)

Permission needed from department. Examination of student's ability to demonstrate mastery of the subject matter. Students should take the comprehensive exam during the quarter, in which they complete all Course work or shortly thereafter. Graded CR/NC.

- **CS 598 - Graduate Directed Study**

(1–4)

Prerequisite: instructor consent. Independent investigation and study of an advanced topic in computer science under direct supervision of an instructor. May be repeated to maximum of 4 units.

- **CS 599A - Thesis or Project**

(3)

Prerequisites: Completion of at least 20 units of 500 level CS courses and instructor consent to act as sponsor, department approval of topic prior to registration. Research project conducted in an area of advanced topics in computer science under direct supervision of an instructor. This research project shall be continued in CS 599B. Graded CR/NC.

- **CS 599B - Thesis or Project**

(2)

Prerequisites: CS 599A. Instructor consent to act as sponsor, completion of all other requirements for an MS degree in Computer Science. Continuation of research project conducted in CS 599A. Each student shall orally present his/hers research result in a public forum. Graded CR/NC.

Counseling (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

- **COUN 200A - Introduction to Rehabilitation Services**

(3)

Introduction to the profession of vocational and personal rehabilitation; characteristics of the "helping" process; qualities of "helper" techniques for working with people; exploration of settings that offer services. Field visits to agencies.

- **COUN 200B - Introduction to Rehabilitation Services**

(3)

Introduction to the profession of vocational and personal rehabilitation; characteristics of the "helping" process; qualities of "helper" techniques for working with people; exploration of settings that offer services. Field visits to agencies.

- **COUN 400A - Lifespan Human Development**

(4)

Theories of human development, including stages of personality, cognitive, career and social development across the lifespan.

- **COUN 400B - Lifespan Human Development**

(4)

Theories of human development, including stages of personality, cognitive, career and social development across the lifespan.

- **COUN 401 - Boots to Books**

(4)

Prerequisite: Instructor consent. Exploration of veterans' issues related to transitioning from military to civilian life, including development of skills for psychosocial adjustment, career development, and college survival. Designed for returned military personnel.

- **COUN 403 - The Psychosocial Dynamics of Child Maltreatment and Family Violence
(also listed as PSY 403)**

(4)

Prerequisite: PSY 150. Psychosocial factors in child maltreatment and family violence: developmental considerations, assessment, interventions, legal and ethical issues, research findings, and community resources.

- **COUN 406 - Behavioral Counseling and Self-Management**

(4)

Prerequisite: PSY 150. Application of principles of learning personal counseling and behavioral self-control programs.

- **COUN 428 - Measurement Issues in Counseling**

(4)

Prerequisite: EDFN 452 or PSY 302. Principles, procedures, and ethical considerations underlying data collection and interpretation for purposes of client assessment in counseling settings.

- **COUN 442 - Medical Factors in Rehabilitation**

(3)

Selected facets of medical, developmental, and administrative factors in the rehabilitation process, including medical terminology, specialties in medical practice, and workers' compensation law. Implications for rehabilitation counseling. Lectures, case discussions, field trip.

- **COUN 445 - Developmental Self Exploration**

(2)

Personal attitudes, values, communication style, and professional development related to becoming a helping professional. Development of skills in building relationships, resolving conflicts, analyzing and synthesizing feedback from others. Graded CR/NC.

- **COUN 448 - Career Counseling for Adults**

(4)

Vocational counseling of college students, rehabilitation clients, persons making midcareer changes, and returning homemakers; emphasis on career development theory, occupational information, job analysis, and job placement.

- **COUN 449 - Job Development and Work Evaluation**

(4)

Prerequisites: COUN 428, 448; instructor consent. Methods for identifying, evaluating, and enhancing employment opportunities for people with physical, emotional, and mental disabilities; job analysis, work evaluation, employer development, job modification, assistive devices, community resources, placement planning, and work adjustment.

- **COUN 450 - Counseling Theories**

(3)

Prerequisite: All GE requirements. Theories of counseling appropriate for individual and group work; functions of theory in research and practice including substance abuse counseling; background for subsequent training in group counseling methods and individual counseling.

- **COUN 460 - Laws Relating to the Child and Family**

(4)

Legal and ethical guidelines for counselors, therapists, and child development practitioners; laws related to the family including marriage, divorce, and assessment and reporting of child abuse.

- **COUN 484 - Conferences with Parents/Primary Caregivers**

(4)

Research-based processes that facilitate student academic, emotional and social growth through parental involvement, including family and study rituals, motivation, self-esteem, assisting with homework, monitoring student progress and school-home community partnerships.

- **COUN 489 - Behavior Management Using Reinforcement in Classrooms**

(4)

Prerequisite: PSY 150. Constructive approaches to classroom management using individual and group reinforcing contingencies for preschool through high school age students.

- **COUN 490 - Problems in Guidance**

(1-5)

Prerequisite: Instructor consent. Investigation of unique problems in guidance as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• **COUN 494 - Seminar: Rehabilitation Services**

(3)

Prerequisites: COUN 200AB; prerequisites or corequisites: COUN 406, 448, 557. Enhancement and integration of techniques and skills needed for effective functioning in the field. May be repeated to maximum of 6 units.

• **COUN 495 - Field Work in Rehabilitation Services**

(3–9)

Prerequisites: Admission to Rehabilitation Services major, COUN 200AB, consent of field work supervisor; prerequisites or corequisites: COUN 406, 448; corequisite: COUN 494. Field placement arranged congruent with option area selected. Graded CR/NC.

• **COUN 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Instructor consent to act as sponsor and consent of division chair. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

• **CRIM 402 - Substance Use and Crime**

(4)

Prerequisite: CRIM 301. An overview of alcohol and a variety of illicit substances in their relation to the criminal justice system. Substance-related offences, substance-offenders, and substance-control strategies within the criminal justice system.

Counseling (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

• **COUN 500A - Theoretical and Developmental Aspects of Behavior**

(4)

Study of psychological, social and cognitive developmental themes in childhood. Emphasis on issues related to counseling and school psychology.

• **COUN 501 - Behavior Analysis in School, Home, and Agency Settings**

(4)

Prerequisite: COUN 406 or 489 or PSY 428. Principles and application of behavioral contingency management procedures.

• **COUN 502 - Advanced Behavioral Contingency Management in Schools**

(4)

Prerequisites: 501, instructor consent. Behavioral research, ethics, and recent developments in applying behavioral procedures to school and

consulting relationships.

• **COUN 503 - Sociological and Cultural Factors in Counseling**

(4)

Effect of social environment and cultural group membership on behaviors related to counseling; relationship of social and cultural background to counseling theory and techniques to our changing cultures; implications of crosscultural research for counseling practice.

• **COUN 504 - Advanced Topical Study in Application of Behavior Analysis to Education**

(4)

Prerequisite: COUN 502. In-depth study of particular topics within behavior analysis. May be repeated to maximum of 8 units as subject matter changes.

• **COUN 505 - Practicum: Counseling**

(3)

Corequisites: Admission to a degree or credential program or employment as a counselor. Practical experience preparatory to working with clients, knowledge and skills in listening and helping. Students initiate a professional portfolio and develop a plan for gaining necessary counseling competencies. Graded CR/NC.

• **COUN 506 - Individual Counseling Strategies**

(4)

Prerequisites: COUN 505; instructor consent. Techniques in individual counseling that apply to specific settings or derive from specific theories of counseling.

• **COUN 507 - Individual Clinical Counseling**

(3)

Prerequisites: COUN 428, 557, or 448; 406 or 501; 505; 506; admission to school psychology or school counseling program or instructor/adviser consent; and evidence of current student liability insurance. Supervised individual career and personal counseling through the campus Counseling and Assessment clinic. Students implement theory, develop case management strategies, and develop their own counseling behavior. Lecture 1 hour, clinical field experience 3 hours scheduled plus 3 hours arranged. May be repeated to a maximum of 6 units for credit. Graded CR/NC.

• **COUN 508 - Systematic Conceptualization of Applied Behavior Analysis in Educational Settings**

(4)

This Course will provide the student with the basic knowledge and systematic conceptualization of principles and procedures utilized within applied behavior analysis. (Graded ABC/NC)

• **COUN 509 - Legal and Ethical Issues in Applied Behavior Analysis**

(4)

Legal and ethical issues pertinent to provide services to special populations and the practice of behavior analysis in human services

settings (Graded ABC/NC).

- **COUN 510 - Counseling Students in Higher Education**

(4)

Characteristics and problems of American college students; impact of college life on individual, psychosocial aspects of student culture and college environment as well as cultural differences.

- **COUN 516 - Group Counseling**

(4)

Prerequisites: 406 or 501; 505. Theory and practice of group processes, leadership, membership skills; group skills appropriate to school, college, agency settings; counseling group and guidance group processes; current research in group theory and practice.

- **COUN 517 - Group Counseling: Practicum**

(3)

Prerequisite: COUN 516. Supervised group counseling through campus' Counseling and Assessment Clinic or local school or agency. Lecture 1 hour, 6 hours approved clinical experience. May be repeated once for credit. Graded CR/NC.

- **COUN 520 - Introduction to Family Evaluation and Counseling**

(4)

Prerequisites: COUN 506, 507; corequisite: COUN 523. Introduction to major counseling theories and practices for working with relationships in family contexts; focus on methods of initial family assessment and family counseling with individual family members.

- **COUN 521 - Advanced Family and Marriage Counseling**

(4)

Prerequisite: COUN 520; corequisite: COUN 589. Approaches to joint family counseling and marriage counseling within family systems framework.

- **COUN 522 - Family Counseling with Children**

(4)

Prerequisite: COUN 589 or 586. Theory and methods of counseling children in families; includes assessment and study of child's role in family structure; applications of verbally- and activity-based therapy.

- **COUN 523 - Family Counseling Laboratory**

(3)

Prerequisites: COUN 406 or 501; 507; corequisite: COUN 520. Supervised counseling of couples and families utilizing strategies and techniques of systems theory; practical experience designed to enhance students' skills as family counselors. Lecture 1 hour, laboratory 3 hours. May be repeated to maximum of 6 units.

- **COUN 529 - Principles of Research and Program Evaluation in Counseling**

(4)

Prerequisite: EDFN 452 or PSY 302. Principles, procedures, and ethical considerations underlying collection, analysis, and interpretation of data for research and evaluation of counseling programs.

• **COUN 531A - Individual Testing and Case Study Techniques**
(also listed as PSY 531AB)

(4)

Prerequisites: COUN 428 plus one of following sequences: PSY 410AB and 438; 410AB and 431; 418AB and 431; or PSY 410A, 428A, and 501. Intensive practice in administration and interpretation of better known testing devices for mental ability, perceptual and motor functioning, and personality dynamics, with attention to integration of results in case studies. Lecture 3 hours, laboratory 3 hours.

• **COUN 531B - Individual Testing and Case Study Techniques**
(also listed as PSY 531AB)

(4)

Prerequisites: COUN 428 plus one of following sequences: PSY 410AB and 438; 410AB and 431; 418AB and 431; or PSY 410A, 428A, and 501. Intensive practice in administration and interpretation of better known testing devices for mental ability, perceptual and motor functioning, and personality dynamics, with attention to integration of results in case studies. Lecture 3 hours, laboratory 3 hours.

• **COUN 532 - Diagnosis of Learning Problems and Remedial Procedures**

(4)

Prerequisite: COUN 531B. Methods used by classroom teachers and school specialists in diagnosis and remediation of learning disabilities.

• **COUN 533 - Psychological Testing Applied to Mentally, Physically Atypical**

(4)

Prerequisite: COUN 531B. Selection, administration, and interpretation of tests used for appraising the atypical individual. Lecture 3 hours, laboratory 3 hours.

• **COUN 534 - Methods of Personality Assessment**
(also listed as PSY 534)

(4)

Prerequisite: COUN 531AB. Study and evaluation of current personality tests, objective and projective. Administration, scoring, interpretation, and reporting of results; findings of empirical research. Lecture 3 hours, laboratory 3 hours.

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Counseling (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

• COUN 535 - Alternative Assessment

(3)

Prerequisite: COUN 531A. Selection, educational implications, and use of alternative assessment techniques and findings; implications for least restrictive placement.

• COUN 536 - Practicum: School-Based Consultation

(3)

Prerequisites: COUN 501, COUN 505. Conceptual basis for school-based consultation including knowledge about preventive approaches applicable for use in school settings. Students will initiate and carry out a consultation role with assigned teachers.

• COUN 537 - Practicum: School Psychology

(1-3)

Prerequisites: Admission to the School Psychology Program; Certificate of Clearance; Approved School Site; Consent of instructor. Supervised school-based activities providing direct and indirect pupil services. Meets California Commission on Teacher Credentialing standards for School Psychology. May be repeated for up to 6 units. Graded CR/NC.

• COUN 538 - Seminar: Methods of Diagnostic Assessment in Counseling

(4)

Prerequisites: COUN 428, 506; PSY 410A or B. Use of statistical and clinical methods as bases for diagnostic appraisal in counseling; emphasis on individual case reports. Includes utilization of current versions of professionally mandated resources like the APA Diagnostic and Statistical Manual (DSM).

• **COUN 539 - Psychopharmacology For Counselors**

(3)

Prerequisite: COUN 538 or equivalent and consent of instructor. Basic principles of psychopharmacology; major classes of psychiatric medication, issues in medication referrals, medication adherence and refusal, role of counselor in working with clients who are on psychotropics.

• **COUN 540A - Foundations of Rehabilitation**

(4)

Prerequisite: Admission to graduate rehabilitation option. Introduction to rehabilitation counseling profession, including study of roles and functions of rehabilitation counselors, case management, and impact of disability on individual's psychological, physical, and social life. Participation in field observation required.

• **COUN 540B - Foundations of Rehabilitation**

(4)

Prerequisite: Admission to graduate rehabilitation option. Introduction to rehabilitation counseling profession, including study of roles and functions of rehabilitation counselors, case management, and impact of disability on individual's psychological, physical, and social life. Participation in field observation required.

• **COUN 542A - Medical Aspects of Disability**

(3)

Review of literature and research implications for rehabilitative counseling of major physical and psychiatric conditions leading to disablement; etiology, therapy, and prognosis of rehabilitation.

• **COUN 542B - Medical Aspects of Disability**

(3)

Review of literature and research implications for rehabilitative counseling of major physical and psychiatric conditions leading to disablement; etiology, therapy, and prognosis of rehabilitation.

• **COUN 552 - Counseling and Human Sexuality**

(4)

Prerequisites: COUN 450 or 506 or 516 or 520; corequisite: SOC 421. Latest developments in theory and research in area of human sexuality as these pertain to role of counselor.

• **COUN 557 - Career Education and Guidance in Schools**

(4)

Career education and guidance covering elementary through high school years. Use of activities, theory, and information in the construction of career education programs.

• **COUN 577 - Analysis of Verbal Behavior and Practical Implications**

(4)

Prerequisites: COUN 501 and COUN 508. The student will acquire basic knowledge of a behavior, analytic analysis of verbal behavior, and

areas of application. (Graded ABC/NC)

- **COUN 579 - School Wide Applied Behavior Analysis**

(4)

Prerequisite: COUN 502. The student will acquire basic knowledge of school wide application of applied behavior analysis including School Wide Positive Behavior Supports, prevention models, and systems analysis. (Graded ABC/NC)

- **COUN 581 - Seminar: Leadership in Pupil Personnel Services**

(4)

Organization, administration, and evaluation of comprehensive, competency-based pupil personnel programs in Public K-12 schools or Community Colleges. Program development and implementation; collaboration with school administration, other helping professionals and community; child welfare and attendance procedures and laws related to minors.

- **COUN 583 - Preventive Counseling**

(4)

Prerequisites: COUN 503, 505. Prevention and outcomes-based model of counselor service delivery. Developmental interventions that promote academic, personal, social, and career development through experiential learning activities. Guidance units designed to promote resilience among youth-at-risk.

- **COUN 585 - Seminar: School Psychology**

(4)

Prerequisite: Instructor consent; corequisite: COUN 586P. History and foundations of school psychology. Legal, ethical and professional issues and standards. Roles and functions of the school psychologist.

- **COUN 586 - Supervised Field Experience in Pupil Personnel Services**

(2-10)

Prerequisite: Admission by application filed with division by fifth week of preceding quarter and approved by adviser and division chair/associate chair. Supervised field experience in school counseling, school psychology or child welfare and attendance involving work with pupils, school personnel parents, community agencies. Graded CR/NC. May be repeated to maximum of 30 units. One unit of credit equals fifty (50) hours of supervised field experience. Candidates for Services credential with Pupil Personnel Services specialization enroll in an appropriate field experience as follows:

- **COUN 586P - School Psychology**

(2-10)

Prerequisite: Admission by application filed with division by fifth week of preceding quarter and approved by adviser and division chair/associate chair. Supervised field experience in school counseling, school psychology or child welfare and attendance involving work with pupils, school personnel parents, community agencies. Graded CR/NC. May be repeated to maximum of 30 units. One unit of credit equals fifty (50) hours of supervised field experience. Candidates for Services credential with Pupil Personnel Services specialization enroll in an appropriate field experience as follows:

- **COUN 586S - School Counseling**

(2-10)

Prerequisite: Admission by application filed with division by fifth week of preceding quarter and approved by adviser and division

chair/associate chair. Supervised field experience in school counseling, school psychology or child welfare and attendance involving work with pupils, school personnel parents, community agencies. Graded CR/NC. May be repeated to maximum of 30 units. One unit of credit equals fifty (50) hours of supervised filed experience. Candidates for Services credential with Pupil Personnel Services specialization enroll in an appropriate field experience as follows:

- **COUN 586W - Child Welfare and Attendance**

(2–10)

Prerequisite: Admission by application filed with division by fifth week of preceding quarter and approved by adviser and division chair/associate chair. Supervised field experience in school counseling, school psychology or child welfare and attendance involving work with pupils, school personnel parents, community agencies. Graded CR/NC. May be repeated to maximum of 30 units. One unit of credit equals fifty (50) hours of supervised filed experience. Candidates for Services credential with Pupil Personnel Services specialization enroll in an appropriate field experience as follows:

- **COUN 587 - Seminar: Higher Education Counseling**

(4)

Prerequisites: Advancement to candidacy in Higher Education Counseling option and instructor consent. Examination and investigation of critical issues in higher education counseling. Seminar reports required.

- **COUN 588 - Supervised Practice in Rehabilitation Counseling**

(3–10)

Prerequisites: COUN 505, instructor consent, application filed with division by fifth week of preceding quarter. Supervised professional experience. One unit requires 40 hours of practice. Graded CR/NC. May be repeated to maximum of 15 units.

- **COUN 588C - Supervised Practice in Rehabilitation/Career Counseling**

(3–5)

Prerequisites: COUN 505, instructor consent, application filed with division by fifth week of preceding quarter. Supervised professional experience. One unit requires 40 hours of practice. Graded CR/NC. May be repeated to maximum of 15 units.

- **COUN 589 - Site Practicum in Marriage, Family, and Child Counseling**

(2–10)

Prerequisites: COUN 505, 520, 517 or 523; corequisite: COUN 521 ; admission by application filed with division by fifth week of preceding quarter. Supervised counseling involving work with individuals, children, couples, and families. Graded CR/NC. May be repeated to maximum of 30 units.

- **COUN 590 - Special Topics in Counselor Education**

(1–4)

Prerequisite: Consent of division chair. Intensive study of designated problems in counselor education. May be repeated for credit as subject matter changes.

- **COUN 591A - Supervised Field Experience in Applied Behavior Analysis**

(5)

Prerequisites: COUN 501 and 502; Supervised professional experience. Application must be filed with division by fifth week of preceding quarter. One unit requires 50 hours of practice. Graded CR/NC.

- **COUN 591B - Supervised Field Experience in Applied Behavior Analysis**

(5)

Prerequisites: COUN 501 and 502; Supervised professional experience. Application must be filed with division by fifth week of preceding quarter. One unit requires 50 hours of practice. Graded CR/NC.

- **COUN 591C - Supervised Field Experience in Applied Behavior Analysis**

(5)

Prerequisites: COUN 501 and 502; Supervised professional experience. Application must be filed with division by fifth week of preceding quarter. One unit requires 50 hours of practice. Graded CR/NC.

- **COUN 592 - Behavior Interventions for Severe Behavior Problems**

(4)

Prerequisites: COUN 501; recommended prerequisite: COUN 502. Biological, psychological and developmental factors affecting severe behavior problems. Emphasis is on conducting functional analysis assessments and on programs for specific severe behavior problems.

- **COUN 593 - Practicum: Staff Development and Consultation**

(3)

Prerequisites: COUN 502, 586S. Practical experience consulting with parents and teachers regarding behavior management problems and assisting school personnel in providing in-service training. Lecture 1 hour, clinical field experience 3 hours scheduled plus 3 hours arranged. May be repeated to a maximum of 6 units for credit. Graded CR/NC.

- **COUN 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

- **COUN 597 - Graduate Research**

(1-4)

Prerequisites: COUN 529, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

- **COUN 598 - Graduate Directed Study**

(1-4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

- **COUN 599A - Thesis or Project Planning**

(3)

Prerequisites: EDFN 452 and 500, or EDFN 553, or COUN 529, advancement to candidacy, written approval of thesis chair. Prior to completion, students will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded CR/NC.

• **COUN 599B - Thesis or Project**

(2)

Prerequisites: COUN 599A, written approval of thesis committee chair. Prior to completion, student will have submitted final draft of thesis or project proposal to thesis committee. Graded CR/NC.

• **COUN 599C - Thesis or Project**

(2)

Prerequisites: COUN 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC.

Criminal Justice (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the school and approval of the graduate adviser: CRIM499

• **CRIM 101 - Introduction to Administration of Justice**

(4)

History and philosophy of law enforcement and administration of justice in America; examination of various agencies, systems, and subsystems; role expectations and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education, and training for professionalism in the system.

C-ID *AJ 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CRIM 126 - Concepts of Criminal Law**

(4)

General provisions of criminal law; history and development; elements of a crime, parties to a crime; defenses to criminal culpability; elements of specific crimes; crimes against person, property, public place, and safety.

C-ID *AJ 120

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CRIM 201 - Correctional Systems**

(4)

Prerequisite: CRIM 101. Objectives of correctional administration; laws, records, public relations, personnel, and relationships to programs, including custodial and noncustodial interrelationships and divisions; physical plant and security, employment, and care and treatment program.

*C-ID AJ 200

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CRIM 202 - Police and Society**

(4)

Prerequisite: CRIM 101. Historical and modern policing approaches; effect of organizational structure and administrative procedure on the police function; assessment of decision-making processes, police-community relations, and misconduct.

• **CRIM 203 - Judicial Organization**

(4)

Prerequisite: CRIM 101. History, concepts and services related to judicial organization, management and administration; prosecutorial and court functions.

• **CRIM 208 - Introduction to Forensic Science for Criminal Justice Majors**

(4)

Overview of forensic science in collecting and evaluating evidence as a component of the criminal justice system. Emphasis on role of science in supporting the investigation and litigation process.

*C-ID AJ 150

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **CRIM 210 - Race, Ethnicity, and Gender in the Criminal Justice System**

(4)

Concepts and theories regarding race, gender, and justice; characteristics of victims and offenders; policing and community relations; gender and ethnicity in the court; sentencing disparities; death penalty; prison populations.

GE D ; Approved diversity course

• **CRIM 301 - Written Communication in Criminal Justice**

(4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Introduction to writing in the field of Criminal Justice. Graded ABC/NC. Some sections of the course may be technologically mediated.

• **CRIM 303 - Theories and Perspectives in Criminal Justice**

(4)

Prerequisite: CRIM 301. Nature and scope of crime problems; issues related to assessment and measurement of crime; survey of theoretical formulations and perspectives of crime causation.

- **CRIM 306 - Crime Control Policy**

(4)

Prerequisite: CRIM 301. Process for development of crime control; citizen expectations; influences of celebrated cases, media coverage, public opinion, and politics, ease of solutions addressing symptoms; solutions designed to address the "root causes."

- **CRIM 307 - Forensic Mental Health**

(4)

Prerequisite: CRIM 301. Nature, prevalence, and consequences of mental disorder among criminal offenders; influence of substance abuse; violence and mental disorder; criminal justice system handling of the mentally ill.

- **CRIM 308 - White Collar Crime**

(4)

Prerequisite: CRIM 301. Issues and varieties of white-collar crime; survey of theories and research; detecting, prosecuting and sentencing white-collar offenders; corporate crime; case studies.

- **CRIM 309 - Juvenile Justice**

(4)

Prerequisite: CRIM 303. This course addresses the interactions among social, economic and political forces in juvenile delinquency and their impact on justice system processes and the nature and operation of the juvenile justice system.

- **CRIM 310 - Ethics and Professional Responsibility**

(4)

Prerequisite: CRIM 301. Nature and scope of misconduct, special risks and responsibilities, legal and institutional controls, concepts of professionalism, codes of ethics, conflict of interest, and problems in exercise of discretion.

- **CRIM 330 - Criminal Justice Research**

(4)

Prerequisites: CRIM 301. Underlying research concepts, methodologies and techniques appropriate for application in criminal justice environments, including the scientific method, basic research designs and data collection techniques. Special consideration of constraints on research within criminal justice settings.

- **CRIM 365 - Personal Identification Systems**

(4)

Prerequisite: CRIM 208 and CRIM 301. Types of personal identification systems that serve investigative function in public agencies; existing and potential resources; analysis of modus operandi, fingerprints, voiceprints, psychological profile; visual identification.

- **CRIM 395 - Community Service in Criminal Justice**

(1-4)

Prerequisites: CRIM 301. Approval by faculty sponsor in consultation with EPIC Director, acceptance by community agency. Participation in community service work. May be repeated to maximum of 6 units. Graded CR/NC.

- **CRIM 398 - Cooperative Education in Criminal Justice**
(See UNIV 398)

(1–4)

Prerequisite: CRIM 301. Cooperative Education in Criminal Justice

- **CRIM 401 - Gangs**

(4)

Prerequisites: CRIM 301. This course provides an overview of gangs, outlines perspectives on gangs, describes risk factors of gang membership, details consequences of gang participation, and reviews gang intervention, prevention and suppression strategies.

- **CRIM 409 - Applications of Forensic Science**

(4)

Prerequisites: BIOL 100ABC and CHEM 101-103 or equivalent. Discussion of technical concepts in the forensic sciences: The application of scientific methods and techniques to criminal justice and law. Quality assurance/control and certification/accreditation guidelines.

- **CRIM 411 - Interpretation of Evidence in the Courtroom**

(4)

Prerequisite: CRIM 208 and CRIM 301. Issues affecting the prosecution, plaintiff and defense in determining the outcome of a trial; the role of expert witnesses in presenting the principles of logic and probability.

- **CRIM 412 - Crime Scene Management**

(4)

Prerequisite: CRIM 208 and CRIM 301. Protection and proper documentation of the crime scene contrasted with the role of the media and other significant factors that often cause conflict.

- **CRIM 413 - Sex Crimes and Physical Evidence**

(4)

Prerequisite: Upper Division Standing. The investigation of sex crimes from a forensic science perspective: criminal behavior and sexual deviance as related to physical evidence; scientific analysis and interpretation of sexual assault evidence; courtroom considerations.

- **CRIM 414 - Forensic Biology**

(4)

Prerequisites: CRIM 409, BIOL 340 or equivalent, BIOL 415 or equivalent statistics course for science majors (for example, BIOL 300). Fundamentals of forensic biology: crime scene investigation and the documentation, collection, and preservation of biological evidence; case management; identification and individualization of biological samples; interpretation of evidence and courtroom issues. (Lecture 3 hours, laboratory 3 hours)

• **CRIM 415 - Forensic Chemistry**

(4)

Prerequisites: CRIM 409, CHEM 201 or equivalent, CHEM 301 ABC and CHEM 302AB or equivalent. Qualitative and quantitative methods in the forensic analysis of controlled substances, including wet chemistry and instrumental methods; chemical analysis of physical evidence, including fire scene debris, explosive material and gunshot residue analysis. (Lecture 3 hours, laboratory 3 hours)

• **CRIM 416 - Physical Methods and Pattern Analysis**

(4)

Prerequisite: CRIM 409. Introduction to forensic pattern analysis including: bloodstain patterns, fingerprints, footwear and tire impressions firearms, tool marks, and questioned documents; documentation, collection, and interpretation of evidence: courtroom issues and expert testimony. (Lecture 3 hours, laboratory 3 hours)

• **CRIM 417 - Forensic Microscopy and Trace Evidence Analysis**

(4)

Prerequisites: CRIM 409, PHYS 101-103 (or equivalent) or PHYS 201-203 (or equivalent). Fundamentals of microscopy and the application of microanalysis to forensic science; examination of trace evidence samples: hair, glass, soil, paint, and fibers. Emphasis is on identification, individualization and associative value of trace evidence. (Lecture 3 hours, laboratory 3 hours)

• **CRIM 428 - Contemporary Criminal Procedures**

(4)

Prerequisite: CRIM 301. Bill of Rights and federal criminal procedure; application of due process clause of Fourteenth Amendment; exclusionary rule; case law reconciling civil rights and security of community.

• **CRIM 432 - Mental Disorder, Substance Abuse and Violence**

(4)

Prerequisite: CRIM 303. Relationship of mental illness to violent crime; alcohol and drug use on violent behavior; program and policies concerning the treatment of mentally disordered persons; substantive methodological issues measuring mental illness.

• **CRIM 445 - Legal Issues for Police Officers**

(4)

Prerequisite: CRIM 301. Focuses on the legal basis for most police actions, its fluidity, and how it has changed recently. Case law will also be reviewed.

• **CRIM 446 - Community Policing and Problem Solving**

(4)

Prerequisites: CRIM 202 and CRIM 301. Contemporary police problems and new strategies and practices for addressing crime and neighborhood disorder. Emphasis on the history, definition, evaluation, and models of community policing.

• **CRIM 448 - Police and the Media**

(4)

Prerequisite: CRIM 301. Nature of police-media relations; role of public information officers and police use of media; nature and impact of

historical and modern constructions of police in news and popular media.

- **CRIM 454 - Special Topics in Criminal Justice**

(4)

Prerequisite: CRIM 301. Current topics of special interest in Criminal Justice as announced in Schedule of Classes. May be repeated to maximum of 20 units of credit as topic changes.

- **CRIM 470 - Women and Crime**

(4)

Prerequisite: CRIM 301. Examines women as offenders, victims, and employees in the criminal justice system through the prism of race, class, and gender.

- **CRIM 483 - Statistics in Criminal Justice**

(4)

Prerequisites: CRIM 301, CRIM 330. Introduction to computer applications for criminal justice agencies and instruction on data types, data collection, and format development. Use of programs for abstracting and data analysis.

- **CRIM 492 - Advanced Criminal Justice Theory and Practice**

(4)

Prerequisites: Senior standing and successful completion of CRIM 303 and 330. Capstone for criminal justice majors; examination of the major issues, themes, theories and research findings with emphasis on relationships with each other, integrating ideas and effects on discipline. Senior thesis required. Some sections of this course may be technologically mediated.

- **CRIM 496 - Firearms and Toolmark Examination**

(4)

Role of firearms examiner in forensic science, including procedures for identifying firearms, toolmarks, and ammunition. Topics include muzzle-to-target distance determination, gunshot residue analysis, firearms nomenclature, comparative microscopy, serial number restoration. (Lecture 4 hours); (Graded ABC/NC).

- **CRIM 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: CRIM 301, 2.5 grade point average; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units.

Criminal Justice (Graduate)

- **CRIM 501 - Seminar: Administration of Justice**

(4)

Structures, function and operations of criminal justice agencies, including the police, the courts, and corrections, within the overall context of the criminal justice system.

- **CRIM 502 - Seminar: Introduction to Forensic Mental Health**

(4)

Role of mental health and substance abuse disorders in the criminal and juvenile justice systems: impact of justice philosophies on providing treatment; response options; and review of effective treatment methods.

- **CRIM 506 - Seminar: Comparative Criminal Justice Administration**

(4)

Comparison of criminal justice systems of world, past and present: American systems, national, state, county, and municipal levels; military police systems; organizations, practices, and trends.

- **CRIM 510 - Graduate Seminar: Ethical, Managerial and Contemporary Issues in Forensic Science**

(4)

Examines parameters that affect the quality of scientific results entering the criminal justice system. Discusses validity and reliability and includes presentations by experts on forensic science-related publications and original research.

- **CRIM 511 - Principles of Research**

(4)

Prerequisite: CRIM 430. Methodology, research strategy, question development, and research ethics. Detailed review of methods appropriate for criminal justice.

- **CRIM 512 - Quantitative Applications**

(4)

Prerequisites: CRIM 511, upper division undergraduate statistics course and familiarity with operations of personal computers. Statistical methods as applied to problems in crime and criminal justice: data description, data analysis, hypothesis testing, and inference using packaged statistical programs.

- **CRIM 515 - Statistical Analysis of Forensic Science Evidence**

(4)

Prerequisite: MATH 274. Introduction to Statistics (or equivalent course). The role of forensic scientists in determining evidential value. Statistical methods as applied to forensic science data: DNA genetic typing, population genetics, transfer evidence, likelihood ratio, relatedness testing, population databases.

- **CRIM 530 - Theories and Perspectives in Criminal Justice**

(4)

Prerequisite: CRIM 303. Functions of theory building and testing as fundamental parts of scientific method in criminal justice; examination and evaluation of selected theories from sociological, psychological and behavioral perspectives.

- **CRIM 538 - Seminar: Criminal Justice Problems**

(4)

Advanced investigation and reports on selected critical problems in criminal justice; emphasis on scientific method and acquaintance with reliable methods of research.

• **CRIM 550 - Crime Scene Reconstruction**

(4)

Prerequisite: Instructor consent. Fundamentals of crime scene processing, reconstruction, and report writing. Instruction in pattern analysis typically found at crime scenes, such as blood spatter interpretation, glass fracture and firearms-related reconstructions. Lecture 2 hours, Laboratory 6 hours.

• **CRIM 552 - Trace Evidence Analysis**

(4)

Prerequisite: Instructor consent. Microscopic and chemical methods of analysis of forensic trace evidence; focus includes forensic examination of hair, fibers paint, glass, soil, and crystalline materials. Lecture 2 hours, Laboratory 6 hours.

• **CRIM 553 - Forensic Serology and DNA Analysis**

(4)

Prerequisite: Instructor consent. Forensic serology and current methods of forensic analysis. Emphasis on molecular techniques with introduction to population statistics. Lecture 2 hours, Laboratory 6 hours.

• **CRIM 554 - Analysis of Controlled Substances**

(4)

Prerequisite: Instructor consent. Identification and classification of drugs of abuse by physical, chemical, and instrumental methods of analysis; survey of various extraction methods; qualitative and quantitative analysis. Lecture 2 hours, Laboratory 6 hours.

• **CRIM 557 - Forensic Pathology**

(4)

Prerequisite: Instructor consent. Correlation of findings of autopsy surgeon and criminalist; traumatic injuries, evaluation of wounds, time of death, rigor mortis, post mortem lividity; recognition of poison deaths.

• **CRIM 559 - Forensic Microscopy**

(4)

Corequisite: CRIM 552: Trace Evidence Analysis. Fundamentals of microscopy and its application to criminalistics; emphasis on light microscopy, including polarized light, dark field, bright field and other illumination techniques; qualitative and quantitative measurements. Lecture 2 hours, Laboratory. 6 hours.

• **CRIM 560 - Forensic Toxicology**

(4)

Prerequisite: Instructor consent. Isolation and identification of drugs and poisons by physical, chemical and instrumental methods of analysis. Metabolism, organ distribution. Methods of extraction, and analysis of toxicity in human tissues. Lecture 2 hours, Laboratory 6 hours.

- **CRIM 562 - Courtroom and Legal Issues in Criminalistics**

(4)

Prerequisite: Instructor consent. Legal issues of concern to the forensic scientist: search and seizure, chain of custody, expert testimony and courtroom scientific admissibility of analytical results. Discussion of ethical dilemmas of concern to forensic scientists.

- **CRIM 590 - Planning and Program Development**

(5)

Prerequisite: CRIM 530 and CRIM 538. Focus on planning, development and evaluation of programs in criminal justice.

- **CRIM 594 - Thesis Prospectus**

(1)

Prerequisite: Instructor consent. Identification of potential research topics in criminalistics leading to the formulation of a thesis proposal; format of the thesis/proposal; development of an appropriate experimental design; data evaluation techniques.

- **CRIM 595 - Directed Field Work**

(1-8)

Prerequisites: School approval, agency acceptance. Supervised individual field experience in an applied area of criminal justice. May be repeated to maximum of 8 units. Graded CR/NC.

- **CRIM 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

- **CRIM 598 - Graduate Directed Study**

(1-5)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics covering the criminal justice system; regular conferences with sponsor. May be repeated to maximum of 9 units; maximum of 12 units in combination of CRIM 499 and 598 may be applied toward degree.

- **CRIM 599 - Thesis**

(1-4)

Prerequisites: Consent of an approved thesis committee to act as sponsor, completion of appropriate forms, approval of school. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/NC.

Curriculum and Instruction (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

- **EDCI 093 - Development of Study Skills: Reading**

(4)

Prerequisite: Recommendation of a counselor or an instructor. Developing reading study skills necessary for academic success at university level. Current general education textbook material used to reinforce college-level reading. Graded CR/NC. May be repeated to maximum of 12 units. No credit toward baccalaureate.

• **EDCI 300 - The Teaching Profession: Preparing the Urban Educator**

(2)

Prerequisite: Admission to University and Charter College of Education. Analysis, application and evaluation of strategies to prepare Multiple and Single Subject candidates to teach in urban schools. Requires verification of completion of 45 hours of early field experiences in a K-12 public school classroom. Graded CR/NC.

• **EDCI 402 - Introduction to Instructional Design, Assessment and Classroom Management Methods**

(4)

Prerequisite: Completion of all requirements for formal admission to the multiple subject credential program. Exploration of the fundamental principles of instructional design, strategies for addressing learner needs, assessment methodology, and classroom management strategies. Restricted to pre-service candidates enrolled in Block One of program.

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Curriculum and Instruction (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

• **EDCI 402I - Integrated Instructional Design, Assessment and Classroom Management for Field-Based Degree Candidates**

(4)

Prerequisite: Completion of all requirements for formal admission to the multiple subject credential program. Integration of the fundamental principles of instructional design, strategies for addressing learner needs, assessment methodology, and classroom management strategies. Restricted to field-based candidates currently employed as fulltime teachers and enrolled in Block One of the program.

• **EDCI 415 - Teaching For Thinking**

(4)

Perspectives and practices to integrate problem-solving, critical thinking, and the development of reflection and self-regulation into all content area course instruction.

• **EDCI 453 - Teaching in Bilingual/Crosscultural Schools**

(4)

Prerequisite: Teaching credential. Specialized teaching techniques and materials for bilingual/crosscultural schools. School and community field assignments.

• **EDEL 420 - RICA Test Preparation Review**

(1)

Prerequisite: EDEL 415. A review of content and strategies needed to pass California's Reading Instruction Competence Assessment (RICA) for Multiple Subject and Special Education credential students who are required to take the RICA.

• **EDSE 445E - Directed Teaching in a Residency Program**

(3)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block of the program. Supervised Practicum: co-teaching in a partner school district with a mentor teacher. Must be repeated for a maximum of 9 units.

Curriculum and Instruction (Graduate)

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

. EDCI 501 - Introduction to Curriculum and Pedagogy in Urban Classrooms

(4)

Prerequisites: Completion of all requirements for admission to the Los Angeles Urban Teacher Residency Program. Examination of the implications of curriculum and pedagogy choices on urban classrooms. Understanding strategies for differentiation of instruction and assessment for English learners.

. EDCI 502 - Introduction to Science and Mathematics Content Methods

(4)

Prerequisites: Completion of all requirements for admission to the Los Angeles Urban Teacher Residency Program. Introduction to pedagogical and curricular strategies for teaching science and mathematics. Emphasis on differentiating instruction for students with special needs. Verification of early field requirement.

. EDCI 503 - Introduction to Schooling in Urban Communities

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program. Introduction to the history of schooling in urban communities with an emphasis on understanding schooling in local contexts.

. EDCI 504 - Theory, Trends, and Practice in School Reform

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency Credential program and completion of the Pre-Residency Block and Residency I Block and Residency II Block of the program. Examination of school reform with emphasis on theory, practice and the changing role of teachers.

. EDCI 511 - Advanced Classroom Assessment in the Urban School

(4)

Prerequisite: Completion of Residency Block III of the Los Angeles Urban Teacher Residency Credential program. An advanced treatment of the field of classroom assessment emphasizing authentic methodologies focusing on urban classroom settings in context of differentiated instruction, pedagogy and foundations of education.

. EDCI 513 - Reading as a Cognitive Process

(4)

Prerequisites: EDEL 415, or EDSE 423, or equivalent, or EDUR status. Advanced study of current issues and programs in reading instruction; application of recent research findings to reading curriculum.

- **EDCI 520M - Methods for Teaching Mathematics**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block of the program. Instructional strategies, objectives, current methods and curriculum in the teaching of mathematics in the urban setting. Includes current research, instructional materials, community resources, and instructional technologies for teaching mathematics.

- **EDCI 520S - Methods for Teaching Science**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block of the program. Instructional strategies, objectives, current methods and curriculum in the teaching of science in the urban setting. Includes current research, instructional materials, community resources, and media methods for teaching science.

- **EDCI 521 - Seminar: Research in Teaching Reading/Language Arts**

(4)

Prerequisites: EDEL 415, or EDSE 423, or EDUR status, and EDFN 500 or equivalents. Analysis of the research knowledge base for K-12 reading/language arts instruction and learning, and application of research to the solution of reading/language arts problems.

- **EDCI 522 - Reading/Language Arts Assessment and Instruction for Classroom Teachers**

(4)

Prerequisite: EDEL 415 and 416, or EDSE 423, or equivalent, or EDUR status. Course covers formal, informal and curriculum-embedded assessments across the continuum of literacy skill components for K-12 classroom instruction; and skills for screening, diagnosis, and intervention of struggling readers and writers through supervised experience. Seminar 3 hours, laboratory 1 hour.

- **EDCI 523 - Principles and Practices of Teaching Writing in the Schools**

(4)

Prerequisite: EDEL 415 and 416 or EDSE 423, or EDUR status, or equivalent. Analysis of writing development and the teaching of written composition skills in K-12 through various writing forms, and use of authentic evaluation procedures. Requires advanced research project.

- **EDCI 524 - Reading/Language Arts Assessment and Instruction for Reading/Language Arts Specialists**

(5)

Prerequisite: EDCI 522. Advanced diagnosis of struggling readers and writers; advanced study of instruction; supervised experience in diagnosis and individual and small- group instruction of all students, including English learners and at-risk students. Seminar 3 hours, laboratory 2 hours.

- **EDCI 525 - Integrated Mathematics and Science Methodological Content Literacy**

(4)

Prerequisites: Completion of all requirements for the Los Angeles Urban Teacher Residency Program Block I. Examination of implications of the use of integrated models of mathematics and science for student learning in urban schools.

• **EDCI 527 - Issues and Trends in Use of Children's Literature**

(4)

Issues and trends in using children's literature to teach reading, language arts, and other school subjects; analysis of research on literature-based instruction.

• **EDCI 529 - Scientific and Mathematical Processes and Authentic Assessment Strategies**

(4)

Prerequisites: Completion of all requirements for the Los Angeles Urban Teacher Residency Program, Block II. Emphasis on students' differentiated outcomes resulting from scientific and mathematical inquiry. Develops and adapts assessment strategies based on the needs of diverse students in urban contexts.

• **EDCI 533 - Children's and Adolescents' Reading Materials in Spanish and Other Languages**

(4)

Prerequisite: Proficiency in Spanish or another language at 300B proficiency level or equivalent. Spanish and multilingual reading materials suitable for development or enrichment of reading/language arts skills at Pre K-12 level in urban classrooms. Fieldwork required.

• **EDCI 535 - Teaching for Cross-Cultural and Global Awareness**

(4)

Instructional strategies, materials, resources for examining cross-cultural and global education issues in the classroom.

• **EDCI 537 - Teacher Leadership in the Urban School: Issues, Trends, and New Directions**
(Also listed as EDAD 537)

(4)

Prerequisite: Level I credential, enrollment in an induction or Master of Arts degree in Education program. This course presents a new paradigm in teacher leadership to enable teachers to explore the rewards and responsibilities of effective leadership in urban school settings. It also serves as a foundational course for teachers seeking National Board Certification.

• **EDCI 540A - Reading/Language Arts Clinical Practicum I**

(2)

Prerequisites: EDCI 524, instructor consent. Supervised experience in small-group instruction with beginning readers, ELL students and students with reading difficulties.

• **EDCI 540B - Reading/Language Arts Clinical Practicum II**

(2)

Prerequisites: EDCI 524, EDCI 540A, instructor consent. Supervised experience in small-group instruction with beginning readers, ELL students and students with reading difficulties at early and intermediate levels of reading acquisition. May be repeated to a maximum of 4 units.

• **EDCI 541 - Field Work in Reading and Language Arts**

(4)

Prerequisites: EDCI 540A, and instructor consent. Supervised field experience in organization, administration, and supervision of district/school level reading/language arts programs. This course requires service learning.

- **EDCI 549 - Developing English Reading/Language Arts Skills in Bilingual/Cross-Cultural Individuals**

(4)

Prerequisites: EDEL 415 and 416, or EDSE 423, or equivalent, or EDUR status. Analysis of research, curriculum design and selection of materials and strategies for the development of English reading/language arts skills for the culturally/linguistically diverse student.

- **EDCI 550B - Advanced Fieldwork in Curriculum and Instruction in the Classroom**

(2)

Prerequisite: Level I credential, enrollment in an induction or a Master of Arts degree in Education program. This is an advanced fieldwork course in curriculum and instruction. It is designed to support and assess beginning teachers' skills and knowledge necessary to be effective practitioners and to become knowledgeable about California teaching standards and frameworks. Course includes field experiences in the classroom. Graded CR/NC.

- **EDCI 551 - Reflection, Synthesis, Assessment: Induction Portfolio**

(2)

Prerequisites: Level I teaching credential and teaching experience; Corequisite: EDCI 596. This is a capstone course designed for teachers pursuing a Level II Multiple Subject or Single Subject credential. Teachers demonstrate evidence of knowledge and skills of advanced coursework and teaching experience reflective of present competence and assessment of professional and academic growth achieved during the program. Graded CR/NC.

- **EDCI 553 - Environmental Science Education in the Urban Setting**

(4)

Prerequisite: EDEL 418 or EDSE 421C or equivalent. An intradisciplinary course, illustrating the interaction of science application and the environment. Exploration of urban environmental sources for research and experimentation, provides field laboratory experiences. Includes 20 hours of laboratory.

- **EDCI 554 - Research and Methods for Teaching in Bilingual/Cross-Cultural Classrooms**

(4)

Prerequisites: Graduate Status, Teaching Credential, TESL 560 or consent of instructor. Exploration and application of research-based pedagogy in programs for English learners in bilingual/cross-cultural and dual language classrooms. Includes focus on SDAIE and assessment. Fieldwork required.

- **EDCI 556 - Inquiry into Methods of Teaching Academic Literacy in the Target Language**

(4)

Prerequisite: Target language fluency at the 300B level and graduate status or consent of instructor. Curriculum, research and pedagogy in literacy in the target language grades K-12, for speakers of that language or for speakers English in bilingual programs. Instruction partly in the target language. Fieldwork is required.

- **EDCI 557 - Research and Pedagogy for the Bilingual Learner: Exploring Cultural Impact**
(also listed as CHS 557/AAAS 450)

(4)

Prerequisite: Teaching credential, graduate status or consent of instructor. Traditions, roles, status, communication patterns of culture as experienced in specified country(ies) and the U.S. Cross-/inter-/intra-cultural relationships/interactions and cultural contributions in California and the U.S. [i.e. Chicano/Latino; Chinese/Chinese American]. Fieldwork is required. Course conducted bilingually in target language and English.

- **EDCI 558 - Reflection, Synthesis, and Assessment: Bilingual Authorization Portfolio**

(2)

Prerequisites: Admission restricted to Bilingual Authorization Certificate Candidates. Teaching credential and teaching experience. This is a capstone course designed for candidates pursuing Bilingual Authorization Certificate. Candidates demonstrate evidence of knowledge and skills of advanced coursework and bilingual teaching experience reflective of professional and academic growth achieved during the program. Graded CR/NC. Fieldwork required.

- **EDCI 560 - Principles and Practices of Curriculum in Urban Schools**

(4)

Curricular trends in historical perspective; sociological change, research in child growth and development, basic philosophies. Objectives, practices, materials, evaluation in curriculum development process.

- **EDCI 584 - Learning Theories and Cognitive Science in Math Education**

(4)

Survey and analysis of theories and research in cognitive science and learning theories in mathematics education: cognitive technologies, students' systematic errors, gender and cultural issues.

- **EDCI 585 - Characteristics of Social Change in Urban Schools**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block of the program. Exploration of the connections between the role of research, the theories of social and cultural foundations of education, and practical realities of social change in local communities.

- **EDCI 588A - Communities of Understanding Residency Laboratories**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block and residency I block of the program. Student must be advanced to candidacy. Practicum with faculty and community partners includes elements of proposing and conducting research, faculty and student examination of research process. Must be taken concurrently with EDSE 597.

- **EDCI 588B - Communities of Sharing Residency Laboratory**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block and residency I block of the program. Student must be advanced to candidacy. Practicum with faculty and community partners includes elements of proposing and conducting research, faculty and student examination of research process. Students will begin dissemination of preliminary research findings. Must be taken concurrently with EDSE 598.

- **EDCI 588C - Communities of Action Residency Laboratory**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block and residency I block of the program. Student must be advanced to candidacy. Continuing practicum with Faculty supervision and student peers to finalize and present action research and portfolio projects. Must be taken concurrently with EDSE 596.

- **EDCI 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

- **EDCI 599A - Thesis or Project Planning**

(3)

Prerequisites: EDFN 452 and 500, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded CR/NC.

- **EDCI 599B - Thesis or Project**

(2)

Prerequisites: EDCI 599A, written approval of thesis committee chair. Prior to completion student will have submitted a final draft of thesis or project proposal to thesis committee. Graded CR/NC.

- **EDCI 599C - Thesis or Project**

(2)

Prerequisites: EDCI 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC. Courses in Elementary Education (EDEL)

- **EDSE 510A - Characteristics and Needs of Urban Secondary Students**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of the pre-residency block of the program. Implications of planning and management choices on specific student populations, understanding of strategies for differentiation of instruction, and exploration of cultural understandings of students within targeted urban communities.

- **EDSE 510B - Instructional Strategies for Urban Schools**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency credential program and completion of residency I block of the program. Implications of the use of pedagogical and instructional models for student learning, understanding of strategies for differentiation of instruction, and exploration of cultural understandings of students within targeted urban communities.

Curriculum and Instruction (Doctoral)

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

• **EDCI 602 - College Teaching Practicum**

(4)

Prerequisites: Advanced Ed.D. standing, and consent of instructor. A minimum of one quarter supervised teaching in college level classes under the supervision of the course instructor. Required of all doctoral candidates in the UCR/CSU Joint Doctoral Program. Fulfills teaching portion of Ed.D. requirements. Graded CR/NC.

• **EDCI 630A - Curriculum Theory and Praxis in Education**

(4)

Prerequisite: Admission into UCR/CSU Joint Doctoral Program. Covers analysis of curriculum theories, trends innovations, and instructional strategies.

• **EDCI 635 - Teachers, Leadership, and Power in Urban Schools**

(3*)

Prerequisite: Admission to Doctoral Program. Analysis of research, policy, and practice on teacher leadership in instruction and school culture; barriers created by school structures and teaching culture; teacher leadership impact on school reform, student outcomes. Graded ABCDF or Credit /No Credit.

*Semester units

• **EDCI 659 - Research Seminar**

(2)

Prerequisites: Completion of advanced methodology courses and consent of the instructor. Research reports on topics in educational domains, such as curriculum and instruction. Seminar, 2 hours. Graded credit or no credit. May be repeated for credit.

• **EDCI 660 - Teaching and Learning in Diverse Urban Settings: Equity, Access, and Achievement**

(3*)

Prerequisite: Admission into doctoral program. Historical, political, and sociohistorical, perspectives of curriculum theory and its relationship to schooling; curricular foundations of instructional leadership for equity in urban schools; curriculum as context for teaching and learning.

*Semester Units

• **EDCI 669 - Topics in Education**

(4)

Prerequisite: Admission into doctoral program. Covers a single topic not contained in a regular course. Course will function as a proseminar in School Curriculum and Instructional Leadership, introducing Ed-D. students to CSU and UCR faculty in this area and their research.

• **EDCI 675 - Advanced Pedagogical Strategies for Achieving Equity**

(3*)

Prerequisite: Admission to Doctoral Program. Cultural competence necessary to promote instructional, policies and practices that value difference and ensure equity in effective organizations; advanced instructional strategies that stimulate cognitive and academic development of diverse students.

*Semester Units

• **EDCI 677 - Leadership in Curriculum and Assessment for Linguistically and Culturally Diverse Urban Students**

(3*)

Prerequisite: Admission into Doctoral Program. Theories/practices of curriculum and assessment; curriculum contexts, change, continuity, articulation, and censorship; cutting edge content trends; resource optimization for transforming curriculum; constructing evidence-based decision-making cultures that improve student outcomes. Graded ABCDF or Credit /No Credit.

*Semester units

• **EDCI 699 - Doctoral Dissertation**

(6)

Prerequisite: Advancement to candidacy for the doctoral degree and consent of instructor to act as sponsor. Continuous enrollment required while student is working on dissertation. May be repeated to maximum of 12 units.

Dance (Undergraduate)

• **DANC 100A - Beginning Ballet**

(3)

Activities to develop technical skills at the beginning ballet level. Supporting information including ballet vocabulary and historical developments. Nonmajors may repeat to a maximum of 9 units.

• **DANC 100B - Beginning Ballet**

(3)

Prerequisite: DANC 100A or instructor consent. Beginning ballet technique emphasizing additional materials for ballet barre, center practice and vocabulary. Introduction of contemporary concepts in the classical idiom. Nonmajors may repeat to maximum of 9 units.

• **DANC 100C - Beginning Ballet**

(3)

Prerequisite: DANC 100B or instructor consent. Beginning technique emphasizing center practice, classical and contemporary enchainments. Introducing styles of ballet, historical information relevant to the style and form. Nonmajors may repeat to maximum of 9 units.

• **DANC 120A - Beginning Jazz Dance**

(3)

Activities designed to develop beginning skills in jazz dance accompanied by background information relevant to the dance form. May be repeated to maximum of 9 units.

- **DANC 140A - Beginning Modern Dance**

(3)

Activities to develop technical skills in modern dance at the beginning level. Relevant modern dance vocabulary; historical developments presented. Nonmajors may repeat to maximum of 9 units.

- **DANC 140B - Beginning Modern Dance**

(3)

Prerequisite: DANC 140A or instructor consent. Beginning modern technique emphasizing center practice, traditional and contemporary combinations. Introducing modern dance history, exploring technical styles, creative studies. Nonmajors may repeat to maximum of 9 units.

- **DANC 140C - Beginning Modern Dance**

(3)

Prerequisite: DANC 140B or instructor consent. Beginning modern dance technique, emphasizing center practice, floor work, relevant modern dance vocabulary. Introducing contemporary concepts in the classical idiom. Nonmajors may repeat to maximum of 9 units.

- **DANC 154 - Special Topics in Dance**

(1)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated as subject matter changes.

- **DANC 157 - Crosscultural Themes in Dance**

(4)

Analyzing developments in dance and cultivating imagination and sensitivity to cross-cultural themes in human behavior. Understanding ongoing cultural dance traditions. Lecture 3 hours; activity 1 hour.

GE C2

- **DANC 160 - Beginning Tap Dance**

(2)

Activities designed to develop beginning skills in tap accompanied by background information relevant to the dance form. May be repeated to maximum of 6 units.

- **DANC 200A - Intermediate Ballet**

(3)

Prerequisite: TAD major, DANC 100C, or instructor consent. Activities developing skills at intermediate level of ballet. Material on vocabulary and relevant theoretical considerations. Beginning a foundation of knowledge of ballet aesthetics. May repeat to a maximum of 6 units.

- **DANC 200B - Intermediate Ballet**

(3)

Prerequisite: DANC 200A or instructor consent. Activities developing skills at the intermediate level. Supporting materials on vocabulary and relevant theoretical considerations. Continued building of the foundation of knowledge of ballet aesthetics. May repeat to a maximum of 6 units.

units.

- **DANC 200C - Intermediate Ballet**

(3)

Prerequisite: DANC 200B or instructor consent. Activities to continue mastering intermediate ballet technique. Supporting materials on vocabulary, relevant theoretical information and broadening knowledge of ballet aesthetics. May repeat to maximum of 6 units.

- **DANC 210 - Body and Identity in Dance, Theatre, Film**
(also listed as TVF and TA 210)

(4)

The aesthetic bases of dance, theatre and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class.

GE C2

- **DANC 220A - Intermediate Jazz Dance**

(3)

Prerequisite: DANC 120C or instructor consent. Activities designed to develop intermediate skills in jazz dance accompanied by background information relevant to the dance form. May be repeated to maximum of 9 units.

- **DANC 240A - Intermediate Modern Dance**

(3)

Prerequisite: TAD major, DANC 140C, or instructor consent. Activities to develop technical skills at the intermediate modern dance level. Relevant modern dance vocabulary and varied theories presented. May repeat to maximum of 6 units.

- **DANC 240B - Intermediate Modern Dance**

(3)

Prerequisite: DANC 240A or instructor consent. Intermediate modern dance technique emphasizing center and across floor materials; relevant dance vocabulary and aesthetic considerations. Set and original combinations from varied theorists. May repeat to maximum of 6 units.

- **DANC 240C - Intermediate Modern Dance**

(3)

Prerequisite: DANC 240B or instructor consent. Intermediate modern dance technique emphasizing center and across floor materials; choreographic sequences introduced; varied theories presented; relevant dance vocabulary and aesthetic considerations. May repeat to maximum of 6 units.

- **DANC 254L - Special Topics in Dance**

(1–3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to maximum of 12 units as subject matter changes.

- **DANC 254P - Special Topics in Dance**

(1–3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to maximum of 12 units as subject matter changes.

- **DANC 255 - Afrocaribbean Dance**

(2)

This course is designed to teach fundamental Afro-Caribbean dance techniques by providing a thorough examination of West African dances as they evolved in the Caribbean: Cuba, Puerto Rico, Jamaica, Haiti, and Trinidad and Tobago.

- **DANC 256 - Salsa and Contemporary Latin American Dance Practices**

(2)

Introduction to dance practices of Contemporary Latin America including Salsa, Rueda Casino, Chachacha, Cumbia, and Merengue. Includes basic movement skills and understanding of improvisational and choreographic processes used.

- **DANC 272 - Choreography I: Improvisation**

(3)

Prerequisites: TAD Major or instructor consent; DANC 140A; DANC 100A. Improvisational techniques utilizing dance movements to develop individual/group sensitivities, concentration and discoveries to begin the forming process used in creating dances. May be repeated to maximum of 12 units.

- **DANC 340 - Advanced Modern Dance**

(2)

Prerequisite: TAD major, DANC 240C, or instructor consent. Continued development of technical skills, creative dance study, knowledge of history and aesthetics appropriate for the advanced level of modern dance. May be repeated to maximum of 12 units.

- **DANC 372 - Choreography II: Dance Composition**

(3)

Prerequisite: TAD major; DANC 272; or instructor consent. Principles of dance composition through individual experiences with varied stimuli, differing construction processes, simple musical forms. May be repeated to maximum of 12 units.

- **DANC 400 - Creative Dance in the Elementary Classroom**

(3)

Exploration/integration of artistic perception, creative expression, historical/cultural contexts, aesthetic valuing as components of teaching/learning through dance. Meets 4 hours weekly.

- **DANC 435A - Dance Movement and Identity**

(4)

Prerequisite: DANC 157, DANC 400 or instructor consent. Theoretical framework, conceptual development and practice of using dance to promote awareness, insight and growth, allowing for integration of cognitive, emotional and physical functions. Lecture 2 hours, activity 2

hours.

- **DANC 454L - Special Topics in Dance**

(1–3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to a maximum of 12 units as subject matter changes.

- **DANC 454P - Special Topics in Dance**

(1–3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to a maximum of 12 units as subject matter changes.

- **DANC 470 - Theory and Analysis of Dance**

(3)

Prerequisite: KPE Single Subject Credential Major with an option in Dance, TAD major, or instructor consent; advanced level in dance technique. Theory, analysis, and advanced performance of dance; structural elements, rhythm, creativity, and selection of accompaniment. Lecture 2 hours, demonstration laboratory 2 hours each.

- **DANC 471 - Rhythmic Form and Analysis for Dance**

(3)

Prerequisites: DANC 140C, DANC 272. Historical analysis of rhythmic elements inherent in music and movement; application and appreciation of their organization as a basis of form in dance. Seminar 1 hr, Laboratory 3 hours.

- **DANC 472 - Choreography III: Advanced Dance Composition**

(3)

Prerequisite: TAD major, DANC 372, or instructor consent. Application of principles/materials of dance, developing solo and group dances for concert productions. Applied theories of contemporary choreographers/their composers. May be repeated to maximum of 12 units.

- **DANC 475 - Choreographic Accompaniment**

(3)

Corequisite: DANC 476A or Instructor consent. Analysis of music for dance from historical periods. Students' choreographies reflective of primitive through 21st Century musical forms, compositions. Seminar 1 hr, Laboratory 3 hours.

- **DANC 476A - Dance History - Antiquity Through Nineteenth Century**

(4)

Prerequisite: DANC 272. Surveys dance practices antiquity through nineteenth-century, examining major developments in western theatrical dance, Asian dance theater, and North American folk/ritual practices. Approaches dance as enactment/component of larger cultural, socio-political history.

• **DANC 476B - Dance History - Twentieth and Twenty-First Century**

(4)

Prerequisite: DANC 272. Surveys contemporary dance practices, examining major developments and emerging trends in classical ballet, western modern dance, and world dance forms. Approaches dance as enactment/component of larger cultural, socio-political history.

• **DANC 477 - Multicultural Approaches to Dance**

(4)

Prerequisite: DANC 400. Experiencing world dance forms. Multicultural approaches to analyzing dance movement as it preserves and reflects cultural beliefs, traditions and ceremonies of diverse cultures. Includes Field trips.

• **DANC 480 - University Dance Ensemble**

(2)

Prerequisite: Instructor consent. Preparation of lecture-demonstrations and dance performances. May be repeated to maximum of 12 units.

• **DANC 483 - University Dance Ensemble Tour**

(3)

Prerequisite: DANC 480 or instructor consent. Rehearsals and tour into community / schools of dance concert and/ or lecture-demonstration. Satisfies core requirement of performance practicum in the community. May be repeated to maximum of 6 units.

• **DANC 484 - Educational Dance Tour**

(3)

Prerequisite: DANC 400 or 477 or instructor consent. Rehearsals and tour into schools of material generated in Dance Arts Literacy or experiential survey courses. Practicum in integrating arts into elementary education. May be repeated to maximum of 6 units.

Economics and Statistics (Undergraduate)

Upper division status is prerequisite to enrollment in 300- and 400- level ECON courses.

• **ECON 109 - Quantitative Reasoning with Statistics**
(also listed as MATH 109)

(4)

Prerequisite: Completion of required remediation, if required, or a score of 50 or above on the ELM requirement. Principles of quantitative reasoning, data presentation, descriptive statistics, correlation, probability, distributions of random variables, sampling distributions, interval estimation, and statistical inference, with multi-disciplinary applications. Graded ABC/NC

GE A4

• **ECON 150 - Economics for the Citizen**

(4)

Analysis of contemporary American economic problems. Topics may include inflation, unemployment, discrimination, costs and benefits of control of crime, and pollution.

GE D

• **ECON 201 - Principles of Economics I: Microeconomics**

(4)

Basic concepts and tools of economic analysis; prices and outputs, marketing structures, wages and profits; international trade and effects of tariffs.

• **ECON 202 - Principles of Economics II: Macroeconomics**

(4)

Prerequisite: ECON 201. Concepts and tools of aggregate economic analysis; inflation, unemployment, balance of payments, national income; determinants of the level of economic activity; money and banking; the role of government.

• **ECON 209 - Applied Business and Economic Statistics I**

(4)

Prerequisite: MATH 091 or satisfactory score on mathematics placement examination. Elementary business and economics statistics with computer applications; descriptive statistics, frequency distribution, probability, sampling distribution, estimation, and significance tests. Some sections may be technologically mediated.

• **ECON 303 - Money, Banking, and the Economy**

(4)

Prerequisite: ECON 202. Nature and flow of money and credit; influence on prices, production, and employment; the Federal Reserve and banking systems; national income, and international monetary relations. Some sections may be technologically mediated.

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HELP

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Economics and Statistics (Undergraduate)

Upper division status is prerequisite to enrollment in 300- and 400- level ECON courses.

• **ECON 309 - Applied Business and Economic Statistics II**

(4)

Prerequisites: ECON 209 and MATH 102 or MATH 104A. Data analysis using spreadsheet software: sampling, testing and statistical inference; study of relationships between variables within business contexts; regression, correlation and time-series analyses with business applications including forecasting. Some sections may be technologically mediated.

• **ECON 310 - Managerial Economics**

(4)

Prerequisites: ECON 201 (ECON 309 recommended). Managerial application of microeconomic principles; emphasis on real world issues for business decision-making. Applied subjects include empirical analysis of sales and costs, pricing practices, nonprice competition, and government intervention. Some sections may be technologically mediated.

• **ECON 350 - Economics of Poverty and Inequality in the U.S.**

(4)

Prerequisite: ECON 150, 201, or 202. Concept and measurement of poverty; analysis of both economic causes and effects of poverty; policy implications and remedies.

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• **ECON 360 - Developing Countries and the New Global Economy**

(4)

Prerequisites: Completion of GE Basic Subjects (Block A) and one course from Block D. Overview of economic factors that influence the development and participation of today's developing countries in the global economy; problems with economic transition, environment, technology, and impact of global financial, trade, and investment systems. Some sections may be technologically mediated. GE Theme A

• **ECON 401 - Mathematical Economics**

(4)

Prerequisites: ECON 303, MATH 206 or 242 (ECON 310 recommended). Mathematical treatment of economic problems with emphasis on optimization models, using calculus and matrix algebra.

• **ECON 403 - Macroeconomics**

(4)

Prerequisites: MATH 242 or 206–207; ECON 303. Macroeconomic theory; determination of national income, theories of aggregate consumption, investment, unemployment, the price level; national income and product accounts; theory of growth.

• **ECON 410 - Microeconomics**

(4)

Prerequisite: ECON 401. Advanced microeconomic theory; economic analysis and evaluation of market system of resource allocation and income distribution.

• **ECON 412 - Development of Economic Thought**

(4)

Prerequisite: ECON 202. Intellectual origins and evolution of modern economic thought.

• **ECON 414 - Econometrics I**

(4)

Prerequisites: ECON 209 and 401. Use of statistics to measure economic relationships, test economic theories, and prepare forecasts; emphasis on advanced regression techniques and data analysis; use of computer software.

• **ECON 415 - Applied Economic and Business Forecasting**

(4)

Prerequisite: ECON 309 or 414. Hands-on training for forecasting economic/business trends with major proprietary computer software used by professionals; main concepts and modeling techniques in forecasting; diagnostic checking; model selection; forecast evaluation and reporting.

• **ECON 416 - Econometrics II**

(4)

Prerequisite: ECON 414. Advanced topics in econometrics with a focus on multiple equation models and their application to business and economic analysis.

• **ECON 426 - International Political Economy**

(also listed as POLS 426)

(4)

Prerequisites: Four units each of ECON and POLS courses. Interaction of politics and economics in the international arena.

• **ECON 430 - Labor Economics**

(4)

Prerequisite: ECON 202. Use of labor resources in economic system; employment, wage rates, development of unions and collective bargaining; labor legislation.

• **ECON 433 - Economics of the Public Sector**

(4)

Prerequisites: ECON 201 and 202. Role of government in the economy; discussions of issues in social security, social welfare, public education, budget deficit and debt, government taxation, and fiscal policy.

• **ECON 434 - Environmental Economics (4)**

Prerequisite: ECON 150 or 201. Economic principles that apply to environmental issues; measuring economic cost of environmental damage; evaluation of public policies designed to address environmental problems resulting from market activities.

• **ECON 435 - Market Indicators and Federal Reserve Policy**

(4)

Prerequisite: ECON 303. Analysis of Federal Reserve policy on interest rates; evaluation of market reports of economic indicators; effects on financial markets; leading/coincident/lagging indicators; business cycles and financial cycles.

• **ECON 440 - Urban and Regional Economics**

(4)

Prerequisite: ECON 201. Role of economic analysis in dealing with urban and regional problems; growth, land use, housing, transportation, and income distribution; emphasis on role of economic models in policy making.

• **ECON 454 - Special Topics in Economics and Statistics**

(1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisites. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects. May be repeated for 16 units as subject matter changes.

• **ECON 458 - Economics of E-Commerce and the Internet**

(4)

Prerequisite: ECON 202. Economic analysis of electronic commerce and the Internet, including product quality uncertainty, product choices and online pricing strategies, online auctions, intellectual property rights, taxation, and regulatory issues.

• **ECON 459 - Economics of Innovation and Entrepreneurship**

(4)

Prerequisites: ECON 201 (ECON 458 recommended). Issues for start-up companies in fostering innovations, evaluating entrepreneurial ventures, formulating entry strategies, building revenue models, raising venture capital, obtaining external assistance, protecting intellectual property, and harvesting new ventures.

- **ECON 460 - Economics of Developing Countries**

(4)

Prerequisite: ECON 150, 201, or 202. Contemporary economic issues in developing countries; theories of development; problems with population growth, investment, technology, and entrepreneurship; role of trade and international finance; foreign aid and external debt; government policy.

- **ECON 461 - Economics of International Trade**

(4)

Prerequisite: ECON 202. Economic analysis of how and why commodities are traded among nations; tariffs and quotas; common market and other international institutions.

- **ECON 462 - International Monetary Economics**

(4)

Prerequisite: ECON 202. Analysis of International bond and currency markets and their dynamic relationships with economic fundamentals; implications of fiscal and monetary policies for financial markets; speculative attack and currency crisis management.

- **ECON 465 - Current Issues in Latin American Economies**

(4)

Prerequisite: ECON 150 or ECON 202. Analysis of the factors that determine the economic performance of Latin American countries, covering topics such as financial liberalization, currency crises, balance of payments crises, and trading blocks.

- **ECON 472 - Labor Relations and Collective Bargaining**

(4)

Prerequisite: ECON 202. Recommended corequisite: ECON 430. Relations between employers and employees as the latter are represented by organized labor; collective bargaining as it relates to recognition, wages, hours, working conditions, grievance procedure, seniority, and health and safety.

- **ECON 490 - Issues in the Economics of Globalization**

(4)

Prerequisites: ECON 201 and 202. Contemporary issues in globalization and international monetary cooperation, including international capital flows, central banking in emerging market economies, international debt, global and regional economic integration and international economic policy coordination.

- **ECON 491 - Data Analysis, Reporting and Presentation**

(4)

Prerequisite: Upper division required courses for Applied Economics option. Use of a major statistical software package for data analysis; introduction to widely used economic databases; data presentation; research report writing and oral presentation.

• **ECON 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Economics major, senior standing, and consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare oral and written reports. Project to be selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for 20 units of credit.

Economics and Statistics (Graduate)

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser. Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses.

• **ECON 500 - MBA Economics**

(4)

Economics for MBA students: markets, demand, consumer behavior, nature of firms, measuring economic activity, inflation unemployment, money and banking, and the role of the government. Some sections may be technologically mediated.

• **ECON 501 - Quantitative Methods for Business Decision-Making**

(4)

Statistics and quantitative methods including descriptive statistics, statistical inference, hypothesis testing, correlation and regression, time series forecasting, inventory models, simulation, queuing, and decision under uncertainty. Some sections may be technologically mediated.

• **ECON 510 - Seminar: Applied Microeconomic Analysis**

(4)

Prerequisite: ECON 410. Modern microeconomic theory and applications: empirical modeling of demand, cost, and production; practical illustrations of such applied topics as pricing practices of firms and public policy issues.

• **ECON 514 - Seminar: Econometric Analysis and Applications**

(4)

Prerequisite: ECON 414. Applying econometric techniques to analyze real-world problems in such areas as finance, economics, accounting and marketing; emphasis on empirical data analysis using popular statistical packages, case studies and reports.

• **ECON 520 - Seminar: Macroeconomics and Monetary Policy**

(4)

Prerequisite: ECON 403. Major macroeconomic issues and policy debates; consumption and investment behavior; government debt; wage/price rigidities; inflation, unemployment and stabilization policies; implementation of monetary policy.

• **ECON 521 - Seminar: International Macroeconomics and Currency Crises**

(4)

Prerequisite: ECON 403 or 462 or 490. Major issues in international capital flows and currency fluctuations; exchange rates and central-bank intervention; financial crisis analysis and management; financial vulnerability indicators; contagion of financial crises.

ECON 526 - Seminar: International Political Economy
(also listed as POLS 526)

(4)

Prerequisites: ECON/POLS 426 or ECON 461 plus POLS 427. Research and analysis of the interactions of politics and economics in the international arena.

• **ECON 530 - Seminar: Applied Labor Economics**

(4)

Prerequisites: ECON 309 or equivalent business statistics course. Study of various labor market issues using national data. Use of SPSS or SAS for data analysis; includes issues on wages, employment, education, discrimination and public and social policies.

• **ECON 533 - Seminar: Public Finance**

(4)

Prerequisite: ECON 433. Microeconomics treatment of theories and policy implications of government expenditures and taxation, collective decision-making, and fiscal federalism.

• **ECON 560 - Seminar: Current Issues in Economic Development**

(4)

Prerequisite: Intermediate microeconomics and macroeconomics. In-depth analysis of contemporary economic issues in developing countries, for example, population growth, domestic and foreign investment, technology, trade, foreign aid, external debt, and government policy.

• **ECON 561 - Seminar: International Economics**

(4)

Prerequisites: ECON 303 and 310. Analysis of current international issues concerning cross-border trade and capital flows; methods of trade policy analysis; implications of regional and global economic integration.

• **ECON 598 - Graduate Directed Study**

(1-4)

Investigation of an approved project leading to an oral and/or written report; project selected in conference with seminar professor before registration, and arrangements made for regular meetings during quarter. May be repeated for credit.

• **ECON 599A - Thesis**

(2)

Prerequisites: Completion of required core courses, written approval of graduate adviser. Prior to completion, students will have completed a tentative outline of thesis, petitioned the graduate adviser to appoint a thesis committee, and submitted a tentative outline to their thesis committee. Graded CR/NC.

• **ECON 599B - Thesis**

(3)

Prerequisites: ECON 599A, written approval of thesis committee chair. Completion of thesis under direct supervision of thesis committee. Graded CR/NC.

Education (Undergraduate)

- **EDUC 101 - Introduction to Higher Education in the Charter College of Education**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Graded ABC/NC

Freshman IHE and BLOCK E

- **EDUC 301 - Transition to Cal State LA and the Charter College of Education**

(2)

Orientation to Cal State Los Angeles and the Charter College of Education; the development of skills for successful transition to this campus; ABC/NC; NIS Acct. Required

Educational Administration (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program

- **EDAD 501A - Introduction to Educational Administration**

(4)

Co-requisite: Must be taken concurrently with EDAD 501B. This course examines professional changes in the transition to leadership roles and investigates and integrates the Educational Administration performance standards required by the CCTC candidate assessment portfolios.

- **EDAD 501B - Laboratory for Educational Administration Digital Portfolios**

(2)

Co-requisite: Must be taken concurrently with EDAD 501A. Students develop and implement technology skills and knowledge needed to create Educational Leadership digital portfolios for culminating assessment in student performance and competence as required by the CCTC. A minimum of twenty hours of laboratory is required.

- **EDAD 561A - Educational Leadership**

(4)

Corequisite: Must be taken concurrently with EDAD 561B. This course prepares the candidate to understand the role of instructional leaders in a shared vision of learning, personal ethics, and leadership capacity.

- **EDAD 561B - Fieldwork in Educational Leadership**

(2)

Corequisite: Must be taken concurrently with EDAD 561A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 561A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 562A - Research and Data Assessment**

(4)

Corequisite: Must be taken concurrently with EDAD 562B. This course prepares the candidate to understand the role of instructional leaders as critical consumers of research and data assessment to improve student achievement utilizing appropriate data and technological applications.

- **EDAD 562B - Fieldwork in Research and Data Assessment**

(2)

Corequisite: Must be taken concurrently with EDAD 562A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 562A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 563A - Pluralism, Collaboration, and Social Justice**

(4)

Corequisite: Must be taken concurrently with EDAD 563B. This course prepares the candidate to understand the role of instructional leaders in the political, social, and cultural context of the school, collaboratively working with diverse families in a pluralistic community-setting.

- **EDAD 563B - Fieldwork in Pluralism, Collaboration, and Social Justice**

(2)

Corequisite: Must be taken concurrently with EDAD 563A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 563A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 564A - School Law**

(4)

Corequisite: Must be taken concurrently with EDAD 564B. This course prepares the candidate to understand the roles of instructional leaders and school law in meeting the needs of diverse population, including individuals with disabilities.

- **EDAD 564B - Fieldwork in School Law**

(2)

Corequisite: Must be taken concurrently with EDAD 564A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 564A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 565A - Instructional Leadership**

(4)

Corequisite: Must be taken concurrently with EDAD 565B. This course prepares the candidate to understand the role of instructional leaders in curriculum and instructional programs that promote success for all students from diverse backgrounds.

- **EDAD 565B - Fieldwork in Instructional Leadership**

(2)

Corequisite: Must be taken concurrently with EDAD 565A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 565A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 566A - School Management**

(4)

Corequisite: Must be taken concurrently with EDAD 566B. This course prepares the candidate to understand the role of instructional leaders in the management of the school, including human resources administration.

- **EDAD 566B - Fieldwork in School Management**

(2)

Corequisite: Must be taken concurrently with EDAD 566A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 566A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 567A - School Finance**

(4)

Corequisite: Must be taken concurrently with EDAD 567B. This course prepares the candidate to understand the role of instructional leaders in the fiscal and economic context of the school, ensuring equitable distribution of resources and support for all students.

- **EDAD 567B - Fieldwork in School Finance**

(2)

Corequisite: Must be taken concurrently with EDAD 567A. Students develop and implement enriched fieldwork experiences that are designed to facilitate the application of theoretical concepts of EDAD 567A, in practical settings. A minimum of 20 hours of fieldwork experience under a qualified supervisor is required.

- **EDAD 580A - Fieldwork I**

(2 Units)

Corequisite: Must be taken with EDAD 508 concurrently. This course is designed for prospective administrators and offers the opportunities for a variety of administrative fieldwork experiences. A minimum of 30 hours of fieldwork under a qualified superior is required. (Graded CR/NC).

- **EDAD 580B - Fieldwork II**

(2)

Prerequisite: Completion of EDAD 508 with a B or better and EDAD 580A with credit. Successful completion of all EDAD core courses taken previously. Students develop and implement enriched field activities that are focused on specific content of EDAD core courses. A minimum of 30 hours of fieldwork und a qualified supervisor is required. (Graded CR/NC).

- **EDAD 581 - Clinical Internship**

(3)

Prerequisites: EDAD 505, 508, 516, 520, 521, 530. Administrative, supervisory and curricular experience at school or district levels. May not be repeated for credit.

- **EDAD 582 - Practicum: Field Work**

(3)

Prerequisites: Admission to EDAD Professional Credential Program; EDAD 594. Practical experience in applying principles, practices and procedures of school sites and district offices. May be repeated to maximum of 12 units for credit.

- **EDAD 584 - Field Work in Central Office Administration and Supervision**

(3)

Prerequisites: Admission to central office administration option, division approval. Intensive and extensive participation in general school administration; areas of emphasis determined in consultation with adviser. Graded CR/NC. May be repeated to maximum of 12 units for credit.

- **EDAD 587 - Internship in Educational Administration**

(3)

Prerequisites: Admission to internship program, approval of both division and school district. Participation in school administration and supervision in school district where student is employed; supervision by on-site administrator and university instructor; regular seminar sessions. Graded CR/NC. May be repeated to maximum of 12 units for credit.

- **EDAD 590 - Reflection and Portfolio Assessment**

(3)

Prerequisite: Successful completion of all EDAD courses and advancement to candidacy. This is a capstone course designed for prospective administrators to demonstrate evidence of knowledge and skills reflective of the candidate's present competence and assessment of professional and academic growth achieved during the program.

- **EDAD 594 - Seminar: Development of Induction Plan**

(3)

Prerequisite: Admission to EDAD Professional Credential Program. The candidate, University adviser and district mentor develop an individualized induction plan for the support and professional development of the beginning administrator.

- **EDAD 595 - Seminar: Candidate Assessment**

(3)

Prerequisite: Completion of induction plan. The candidate, the University adviser and the district mentor assess the induction plan for the candidate to be recommended for the Professional Administrative Services Credential.

- **EDAD 596A - Reflection and Self-Assessment of Professional Educational Leadership**

(6)

Prerequisite: Verification of employment as an administrator with a California Preliminary Administrative Services Credential. Designed for beginning administrators to develop induction plans and engage in professional activities to meet the CLEAR Administrative Services Credential standards of candidate competence and performance. Fieldwork is required.

• **EDAD 596B - Professional Portfolio Assessment**

(6)

Prerequisite: Verification of employment as an administrator with a California Preliminary Administrative Services Credential. Designed for beginning administrators to demonstrate meeting the CLEAR Administrative Services Credential standard of candidate competence and performance. Fieldwork is required.

• **EDAD 598 - Graduate Directed Study**

(1–4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

• **EDAD 599A - Thesis or Project Planning**

(3)

Prerequisites: EDFN 452 and 500, or EDFN 553, or COUN 529, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded CR/NC.

• **EDAD 599B - Thesis or Project**

(2)

Prerequisites: EDAD 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft to thesis or project proposal to thesis committee. Graded CR/NC.

• **EDAD 599C - Thesis or Project**

(2)

Prerequisites: EDAD 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC.

Educational Administration (Doctoral)

• **EDAD 601 - Organizational Theory and Leadership for Change**

(3*)

Prerequisite: Admission to doctoral program. Historical and structural analysis of educational, organizations; urban learning systems as they relate to organizational theory, change leadership, and school reform.

*Semester Units

• **EDAD 605 - Advocacy, Community Engagement and Governance: The Social and Political Contexts of Education**

(3*)

Prerequisite: Admission to doctoral program. Examines research on the role of social movements, civic activism and community-based organizing in building advocacy and leadership for school reform analysis of interagency and intergovernmental politics and practices.

*Semester Units

- **EDAD 626 - Designing and Writing the Doctoral Dissertation Proposal**

(3*)

Prerequisite: Admission into Doctoral Program. Incorporates a writing workshop approach to help students develop effective academic writing strategies, describe the design of the dissertation, prepare a timeline, and write required chapters of a dissertation proposal. May be repeated once for credit. Graded ABCDF or Credit /No Credit.

*Semester units

- **EDAD 692 - Doctoral Seminar: Special Topics in Educational Leadership for Pre K-16 Education**

(3*)

Prerequisite: Admission to Doctoral Program. Contemporary issues in Pre K-16 education: Interdisciplinary perspectives on California's education system; current and future challenges for Pre K-16 alignment; equitable distribution of resources; new strategies for organizational change and transformation. May be repeated to a maximum of 6 units.

* Semester units

- **EDFN 602 - Research Methodologies for Urban Educational Leadership**

(3*)

Prerequisite: Admission to Doctoral Program. Research methods applicable to equity and inclusion issues impacting urban education. Topics include qualitative, quantitative, mixed methods research designs, measurement, evaluating quality in educational research, elements of a research proposal.

- **EDFN 614 - Evaluation Methods for Urban Educational Leadership**

(3*)

Prerequisite: Admission into Doctoral Program. A comprehensive survey of program evaluation principles, methodologies, designs, effective use of evaluation data for decision making, and state and federal evaluation requirements for educational leaders.

**Semester Units*

- **EDFN 641A - Using Quantitative Methods to Analyze Inequitable Schooling Outcomes and to Target Improvement**

(4*)

Prerequisite: Admission to Doctoral Program. Statistical analysis for education using national datasets of schooling outcomes; contingency tables/Chi Square analysis, T-test, analysis of variance, correlation and regression, and design applications including higher order factorials, repeated measures.

*Semester Units

- **EDFN 641B - Using Qualitative Research to Explore Teaching and Learning for Diverse Urban Settings**

(4*)

Prerequisite: Admission to Doctoral Program. Traditions and methods of qualitative research; knowledge and skills to understand, design and conduct qualitative research; using qualitative data and analyses to identify and understand educational issues and problems.

*Semester units

• **EDFN 698 - Graduate Directed Study**

(1–9*)

Prerequisite: Consent of an instructor to act as sponsor. Independent directed study of advanced topics in field; regular meetings with faculty sponsor. Can be taken for 1-3 semester units. May be repeated for up to 6 semester units of credit.

* Semester units

Educational Foundations (Undergraduate)

• **EDFN 413 - Psychological Foundations of Education**

(4)

Psychological research and theory in human learning and development related to educational processes.

• **EDFN 420 - Introduction to Foundations of Urban Learning**

(2)

This course provides foundational knowledge in education by examining cultural, historical, political, philosophical, and sociological perspectives of schooling.

• **EDFN 440 - Schooling for a Diverse, Urban Society**

(4)

Foundational knowledge of education by examination of cultural, historical, political, philosophical, and sociological perspectives of schooling; introducing critical, reflective frameworks for analyzing contemporary American schools; and focusing on issues impacting diverse, urban families and school communities.

• **EDFN 452 - Statistics in Education**

(4)

Prerequisite: One year of algebra. Introduction to descriptive and inferential statistics basic to understanding and conducting educational research, including measures of central tendency, variability, covariability, sampling theory, interval estimation, testing statistical hypotheses.

• **EDFN 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit. There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes

Educational Foundations (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program

• **EDFN 500 - Evaluation of Educational Research**

(4)

Criteria for evaluation of educational research; critical analysis of representative research reports. Survey of educational research methods, planning a research study, organization of a research report. Credit allowed for only one of EDFN 500, and 553

• **EDFN 505 - Qualitative Research in Education**

(4)

Introduction to qualitative research theory and methodology in education; interpretation, data collection, and analysis; practitioner research.

• **EDFN 506 - Comparative Education**

(4)

Prerequisite: EDFN 414. Selected foreign educational systems within context of their respective cultures. Particular attention to multilingual/multicultural and urban educational issues.

• **EDFN 507 - History of Education**

(4)

Prerequisite: Four units chosen from HIST 110ABC or 202AB. Historical analysis of current educational issues with particular attention to multilingual/multicultural and urban education problems.

• **EDFN 508 - Philosophy of Education**

(4)

Prerequisite: PHIL 151 or 152 recommended. Selected current philosophies of education and their applications to educative process. Particular attention to philosophical analysis of issues related to multilingual/multicultural and urban education.

• **EDFN 510 - Advanced Study: Learning Theory and Education**

(4)

Prerequisite: EDFN 413. Recent significant developments in learning theory with emphasis on classroom application.

• **EDFN 521 - Program Evaluation Theory and Design**

(4)

Prerequisites: EDFN 500 or equivalent and EDFN 452. A comprehensive introduction to program evaluation theory; methodological designs and approaches used for evaluation purposes.

• **EDFN 525 - Educational Sociology**

(4)

Prerequisite: EDFN 414. Application of insights of social sciences to education in areas of cultural anthropology, sociology, political theory, economics.

• EDFN 530 - Advanced Study in Human Development

(4)

Prerequisite: EDFN 413 or consent of the instructor. Recent significant contributions in human development research and theory; emphasis on the implications of human development for education.

• EDFN 541 - Evaluation of State and Federal Programs

(4)

Prerequisites: EDFN 500 or equivalent and EDFN 452. A survey of issues dealing with conducting evaluations of federal and state programs, including grant proposals, surveys and human subjects principles.

• EDFN 550 - Contemporary Social Theory and Issues in Urban Education

(4)

Introduction to and examination of conceptual frameworks and methods of contemporary social theories (e.g., social reproduction theory, postmodernist/poststructuralist theory, feminist theory, postcolonial theory, critical race theory, and critical pedagogy as related to issues of class, race/ethnicity, gender, power, and equity in urban schooling.

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HELP

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Educational Foundations (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program

• EDFN 552 - Policy Studies in Urban Education

(4)

This course explores traditional and alternative approaches to the study of policy for urban educational contexts covering key concepts such as power relationships in policy environments, policy-making processes, policy texts, and implementation practices.

• EDFN 594 - Selected Studies in Education

(1-5)

Prerequisite: Consent of division chair. Intensive study of designated problems in education. May be repeated for credit as subject matter changes.

• EDFN 595 - Field Experience in Evaluation (Practicum)

(4)

Prerequisites: EDFN 452, EDFN 500 or equivalent, EDFN 521, EDFN 541. Provides students with practical experience through completion of a direct interaction with professional staff responsible for evaluation of program(s) and/or assessment of students in the local area. Graded CR/NC.

• EDFN 596 - Comprehensive Exam

(0)

Graded CR/NC

• EDFN 597 - Graduate Research

(1–4)

Prerequisites: EDFN 500, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

• **EDFN 598 - Graduate Directed Study**

(1–4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

• **EDFN 599A - Thesis or Project Planning**

(3)

Prerequisites: EDFN 452 or another advisor approved research course, and 500 or 553, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded CR/NC.

• **EDFN 599B - Thesis or Project**

(2)

Prerequisites: EDFN 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft of thesis or project proposal to thesis committee. Graded CR/NC.

• **EDFN 599C - Thesis or Project**

(2)

Prerequisites: EDFN 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC

Educational Foundations (Doctoral)

• **EDFN 641C - Practitioner Research Embedded in School Communities**

(4*)

Prerequisites: Admission to doctoral program; EDFN 641A and 641B. Students engage in field-based studies relevant to school communities that may be qualitative, quantitative, or mixed method and that foster organizational learning and problem solving through systematic inquiry and reflection.

*Semester Units

Elementary Education (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDEL 400, 415–419, 431, 465

• **EDCI 488A - Support Supervision in Field Experiences**

(4)

This course is restricted to students in the CSULA University Multiple and Single Subject Teaching Credential Internship Programs. It provides supervision and support in instruction to interns in their classrooms. Graded CR/NC.

- **EDCI 488B - Support Supervision in Field Experiences**

(4)

This course is restricted to students in the CSULA University Multiple and Single Subject Teaching Credential Internship Programs. It provides supervision and support in instruction to interns in their classrooms. Graded CR/NC.

- **EDCI 488C - Support Supervision in Field Experiences**

(4)

This course is restricted to students in the CSULA University Multiple and Single Subject Teaching Credential Internship Programs. It provides supervision and support in instruction to interns in their classrooms. Graded CR/NC.

- **EDEL 403 - Directed Teaching: Multiple Subject**

(10)

Prerequisites. Completion of all professional education courses in Blocks One-Three, EDFN 440, EDSP 440. Corequisite: EDEL 403C. On-site laboratory experience consisting of teaching multiple subjects under direction of University supervisor with cooperation of supervising classroom teacher(s). May be repeated for credit with division approval. Graded CR/NC only.

- **EDEL 403C - Reflection, Synthesis and Assessment of Directed Teaching**

(2)

Prerequisites: Completion of all courses in Blocks One-Three, EDFN 440, EDSP 400. Corequisite: EDEL 403 or EDEL 489. Seminar to accompany directed teaching to provide candidates opportunities for self- and peer- reflection, professional growth, and summative program portfolio assessment.

- **EDEL 404 - Directed Teaching II: Multiple Subject**

(12)

Prerequisites or corequisites: EDEL 403, EDFN 414. On-site laboratory experience teaching multiple subjects under direction of University supervisor with cooperation of supervising classroom teacher(s). Concurrent weekly seminar. Graded CR/NC.

- **EDEL 405 - Proseminar: Language Development in the Elementary Classroom**

(4)

Prerequisite: Completion of all requirements for formal admission to multiple subject credential program. Analysis application, evaluation of strategies for teaching language acquisition/language arts and related cultural aspects in elementary classrooms, including primary language development, ESL, and sheltered English strategies. Includes laboratory experiences in a field setting. Course restricted to candidates enrolled in Block One of program.

- **EDEL 412 - Emergent Literacy**

(4)

Basic concepts of emergent literacy, strategies for teaching beginning reading/writing, phonemic awareness, phonics and other word-attack skills, assessment, linguistic diversity, children's literature, and related legislative actions and initiatives.

• **EDEL 415 - Proseminar: Curriculum and Teaching of Reading/Language Arts**

(4)

Prerequisites: EDCI 402 and EDEL 405, or EDSP 300. Analysis, application, and evaluation of strategies for teaching reading in various milieu, emphasizing comprehension, phonics and other decoding skills and strategies. Includes laboratory experiences in a field setting.

• **EDEL 415C - Proseminar: Curriculum and Teaching of Reading/Language Arts — Chinese**

(4)

Prerequisite: Completion of all courses in Block One of multiple subject credential program. Analysis, application, and evaluation of strategies for teaching reading in various milieu, emphasizing comprehension, phonics and other decoding skills and strategies. Includes observation and participation in a field setting. This course is offered in English/Chinese combination. Bilingual authorization standards are also emphasized.

• **EDEL 415K - Proseminar: Curriculum and Teaching of Reading/Language Arts — Korean**

(4)

Prerequisite: Completion of all courses in Block One of multiple subject credential program. Analysis, application, and evaluation of strategies for teaching reading in various milieu, emphasizing comprehension, phonics and other decoding skills and strategies. Includes observation and participation in a field setting. This course is offered in English/Korean combination. Bilingual authorization standards are also emphasized.

• **EDEL 415S - Proseminar: Curriculum and Teaching of Reading/Language Arts — Spanish**

(4)

Prerequisite: Completion of all courses in Block One of multiple subject credential program. Analysis, application, and evaluation of strategies for teaching reading in various milieu, emphasizing comprehension, phonics and other decoding skills and strategies. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• **EDEL 416 - Proseminar: Curriculum and Teaching of Writing/Language Arts**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of multiple subject credential program. Analysis, application, and evaluation of teaching writing and related language arts in various milieu, emphasizing skills and strategies addressing spelling, grammar, handwriting, children's literature, oral language, and listening. Includes laboratory experiences in a field setting. Offered in English or a second language as listed below:

• **EDEL 416C - Proseminar: Curriculum and Teaching of Writing/Language Arts — Chinese**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of multiple subject credential program. Analysis, application, and evaluation of teaching writing and related language arts in various milieu, emphasizing skills and strategies addressing spelling, grammar, handwriting, children's literature, oral language, and listening. Includes observation and participation in a field setting. This course is offered in English/Chinese combination. Bilingual authorization standards are also emphasized.

• **EDEL 416K - Proseminar: Curriculum and Teaching of Writing/Language Arts — Korean**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of multiple subject credential program. Analysis, application, and evaluation of teaching writing and related language arts in various milieu, emphasizing skills and strategies addressing spelling, grammar, handwriting, children's literature, oral language, and listening. Includes observation and participation in a field setting. This course is offered in English/Korean combination. Bilingual authorization standards are also emphasized.

• **EDEL 416S - Proseminar: Curriculum and Teaching of Writing/Language Arts — Spanish**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of multiple subject credential program. Analysis, application, and evaluation of teaching writing and related language arts in various milieu, emphasizing skills and strategies addressing spelling, grammar, handwriting, children's literature, oral language, and listening. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• **EDEL 417 - Proseminar: Curriculum and Teaching of Mathematics**

(4)

Prerequisites: MATH 110 or equivalent and completion of all courses in Block One of Multiple Subject Credential program. Analysis, application and evaluation of strategies for teaching mathematics in various socioeconomic and cultural milieu. Laboratory experience provided. Offered in English or a second language listed below:

• **EDEL 417C - Proseminar: Curriculum and Teaching of Mathematics — Chinese**

(4)

Prerequisites: MATH 110 or equivalent and completion of all courses in Block One of Multiple Subject Credential program. Analysis, application and evaluation of strategies for teaching mathematics in various socioeconomic and cultural milieu. Includes observation and participation in a field setting. This course is offered in English/Chinese combination. Bilingual authorization standards are also emphasized.

• **EDEL 417K - Proseminar: Curriculum and Teaching of Mathematics — Korean**

(4)

Prerequisites: MATH 110 or equivalent and completion of all courses in Block One of Multiple Subject Credential program. Analysis, application and evaluation of strategies for teaching mathematics in various socioeconomic and cultural milieu. Includes observation and participation in a field setting. This course is offered in English/Korean combination. Bilingual authorization standards are also emphasized.

• **EDEL 417S - Proseminar: Curriculum and Teaching of Mathematics — Spanish**

(4)

Prerequisites: MATH 110 or equivalent and completion of all courses in Block One of Multiple Subject Credential program. Analysis, application and evaluation of strategies for teaching mathematics in various socioeconomic and cultural milieu. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• **EDEL 418 - Proseminar: Curriculum and Teaching of Science**

(4)

Prerequisite: Completion of all courses in Block One of multiple subject credential program. Analysis, application, evaluation of strategies for teaching science in various socioeconomic and cultural milieu. Course consists of lecture and laboratory activities.

• **EDEL 418S - Proseminar: Curriculum and Teaching of Science — Spanish**

(4)

Prerequisite: Completion of all courses in Block One of multiple subject credential program. Analysis, application, evaluation of strategies for teaching science in various socioeconomic and cultural milieu. Course consists of seminar. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• **EDEL 419 - Proseminar: Curriculum and Teaching of Social Science**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of the multiple subject credential program. Analysis, application, evaluation of strategies for teaching social science in various socioeconomic and cultural milieu. Assessment point for progress on professional portfolio.

• **EDEL 419S - Proseminar: Curriculum and Teaching of Social Science — Spanish**

(4)

Prerequisite: Completion of all courses in Blocks One and Two of the multiple subject credential program. Analysis, application, evaluation of strategies for teaching social science in various socioeconomic and cultural milieu. Assessment point for progress on professional portfolio. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• **EDEL 421 - Teaching Language Arts in Elementary School**

(4)

Prerequisite: Teaching experience. Intensive study in teaching language arts in elementary school. Exploration, analysis, interpretation, and implementation of modern teaching trends and issues, with urban emphasis.

• **EDEL 424 - Methods of Using Creative Dramatics with Children**

(4)

Prerequisite: COMM 490. Methods of using creative dramatics and educational drama as essential to language arts and literacy across the curriculum for K-8 students. A preservice or inservice course for librarians and teachers. Lecture 3 hours, laboratory 1 hour.

• **EDEL 427 - Using Multicultural Children's Literature in the Classroom**

(4)

Survey, analysis, and use of multicultural children's literature as core curriculum in reading, language arts, and literacy. An introduction to the use of multicultural children's literature in the classroom.

• **EDEL 431 - Proseminar: Curriculum and Teaching of Mathematics in Middle Schools**

(4)

Prerequisite: EDEL 417 or equivalent. Analysis, application and evaluation of strategies for teaching middle school mathematics in various socioeconomic and cultural milieu.

• **EDEL 432 - Teaching Mathematics for Early Childhood**

(4)

Prerequisite: Teaching experience. Professional course presenting methods and materials for teaching mathematics to children, prekindergarten through grade three.

- **EDEL 433A - Special Topics in Mathematics for Elementary Teachers: Metric Measurement**

(1)

Prerequisite: EDEL 417. Instructional laboratory for elementary teachers; current strategies, materials, and terminology for teaching specific strands from Mathematics Framework for California public schools.

- **EDEL 433B - Special Topics in Mathematics for Elementary Teachers: Problem Solving**

(1)

Prerequisite: EDEL 417. Instructional laboratory for elementary teachers; current strategies, materials, and terminology for teaching specific strands from Mathematics Framework for California public schools.

- **EDEL 435 - Use of Calculator in Teaching Mathematics**

(2)

Prerequisite: EDEL 417. Laboratory that examines how the calculator can be used in teaching mathematics, with a special emphasis on problem solving.

- **EDEL 451 - Teaching Science in Elementary School**

(4)

Prerequisite: Teaching experience. Intensive study in teaching science in elementary school; exploration, analysis, interpretation, and implementation of modern teaching trends, issues, and materials, with urban emphasis.

- **EDEL 454 - The Science, Technology and Society Curriculum K-7**

(4)

Prerequisites: EDEL 402,452. Exploration of how society uses the accumulated knowledge from science and other disciplines to control and alter the way things work, and it helps in understanding science and technology –related societal issues. Includes 20 hours of laboratory.

- **EDEL 461 - Curriculum Procedures and Materials for Early Childhood Education**

(4)

Curriculum, instructional procedures/materials in early childhood education. Focus on designing learning experiences to address developmental characteristics of preschool/kindergarten children in diverse urban settings. Observation/participation in early education classrooms required.

- **EDEL 463 - Preschool-Kindergarten Education: Language and Literacy**

(4)

Instructional strategies bridging preschool and kindergarten in diverse urban settings; including theoretical frameworks, first - and second-language and literacy acquisition, and authentic assessment practices.

- **EDEL 465 - Directed Teaching: Preschool**

(12)

Prerequisites: EDEL 461, 462; see Multiple Subject Credential with Prekindergarten Option requirements. Directed teaching for credential at preschool level. Graded CR/NC.

• **EDEL 466 - Cultural Diversity in Early Childhood Classroom: Needs and Opportunities**

(4)

Multicultural education and anti bias curriculum development for early childhood education; focus on cross-cultural perspectives and their effects on behavior, learning, and teaching.

• **EDEL 467 - School/Family/Community Partnerships in Urban Learning**

(4 units)

Examination of family, community, societal, cultural, and ideological influences on children's learning and schooling. Emphasis on strategies to integrate urban family members, as well as community resources, into the teaching-learning process. Field-based experiences required.

• **EDEL 470A - Introduction to Elementary Curriculum**

(3)

Prerequisites: COMD 456, 461. Overview of curriculum, methods, and materials used by elementary teachers in presenting reading, mathematics, and language arts. Meets needs of Communicative Disorders majors pursuing Special Class Authorization of Severe Language Handicapped and/or Aphasic Pupils. May not be used for Multiple Subject credential.

• **EDEL 470B - Introduction to Elementary Curriculum**

(3)

Prerequisites: COMD 456, 461. Overview of curriculum, methods, and materials used by elementary teachers in presenting reading, mathematics, and language arts. Meets needs of Communicative Disorders majors pursuing Special Class Authorization of Severe Language Handicapped and/or Aphasic Pupils. May not be used for Multiple Subject credential.

• **EDEL 473 - Storytelling for Teachers**

(4)

Developing skills of storytelling, selecting appropriate literature, and including storytelling in the elementary school curriculum. Lecture 3 hours, laboratory 1 hour.

• **EDEL 489 - Demonstration of Instructional Competencies**

(10)

Prerequisites: Completion of all professional education courses in Blocks One-Three, EDFN 440, EDSP 400. Corequisite: EDEL 403C. Demonstration of competencies related to instructional skills specified for components leading to completion of approved preliminary multiple subject credential program requirements. Restricted to field-based candidates currently employed as full-time teachers. May be repeated for credit with division approval. Graded CR/NC.

• **EDEL 490 - Problems in Elementary Education**

(2-5)

Prerequisite: Instructor consent. Investigation of unique problems in elementary education. Specific topic announced in Schedule of Classes. May be repeated for credit as subject matter changes.

- **EDEL 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and final report submitted. May be repeated for credit.

Elementary Education (Graduate)

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

- **EDEL 525 - Reading/Language Arts Across the Curriculum**

(4)

Prerequisites: EDEL 415 or equivalent, teaching experience. Investigation of comprehensive reading/language arts instruction research base and applications. Literature-based action research project across the curriculum.

- **EDEL 531 - Seminar: Research in Teaching Elementary School Subjects: Mathematics**

(4)

Prerequisites: EDFN 500, teaching experience. Analysis of research on instruction and learning; application of implications of research to the solution of classroom problems. An action research project, including an extensive review of the literature, is required.

- **EDEL 535 - Seminar: Assessment Strategies in Mathematics**

(4)

Prerequisites: EDEL 431, teaching credential, teaching experience. Analysis of and practice in the use of assessment models that focus on mathematical thinking.

- **EDEL 551 - Seminar: Research in Teaching Elementary School Subjects: Science**

(4)

Prerequisites: EDFN 500, teaching experience. Analysis of research on instruction and learning; application of implications of research to the solution of classroom problems. An action research project, including an extensive review of the literature, is required.

- **EDEL 554 - Research in Thematic Science: Integrating Language Arts, K-7**

(4)

Prerequisites: EDEL 402, EDEL 452, EDEL 552. Research into the positive use of the thematic approach to teaching a rigorous motivational science program that contains interdisciplinary sciences with language arts components. Includes 20 hours of laboratory.

- **EDEL 560 - Design and Management of Early Childhood Public Educational Programs**

(4)

Prerequisite: Enrollment in Early Childhood/Primary Education M.A. option or consent of instructor. Design and management of early childhood public educational programs; leadership, goals, budget, accountability, differentiated staffing, management, proposal writing, articulation.

- **EDEL 563 - Seminar: Issues and Trends in Early Childhood Education**

(4)

Prerequisite: Enrollment in Early Childhood/Primary Education M.A. option or consent of instructor. Persistent problems in early childhood education; review of literature concerning challenges and controversies in the field.

- **EDEL 564 - Seminar: Advanced Methodologies in Early Childhood Education**

(4)

Prerequisites: EDEL 461 or consent of instructor. Intensive research-based study of early childhood education methodologies offered through course sections in assessment, interdisciplinary curriculum approaches, play, school-family partnerships. May be repeated for up to 8 credits.

- **EDEL 589 - Seminar: Elementary Education**

(4)

Prerequisite: Completion of or concurrent enrollment in last 10 units for M.A. degree in Education: Elementary Teaching option. Identification and analysis of problems and trends in urban elementary education.

- **EDEL 590 - Creating a Healthy and Effective Classroom Climate**

(4)

Prerequisites: EDEL 414, EDSE 415, or EDCI 402 or equivalent. Creating advanced examination of the area of classroom management; strategies for creating a healthy classroom environment.

- **EDEL 594 - Selected Studies in Elementary Education**

(1–4)

Prerequisite: Consent of division chair. Intensive study of designated problems in elementary education. May be repeated for credit as subject matter changes.

- **EDEL 595 - Advanced Field Work: Early Childhood Specialist Instructional Credential**

(5)

Prerequisites: EDEL 560, teaching credential, formal admission to Early Childhood Specialist instructional credential program. Specialized fieldwork assigned on individual basis. Scheduled fieldwork; tutorial session required. Graded CR/NC.

- **EDEL 596 - Comprehensive Exam**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter. Graded CR/NR

- **EDEL 597 - Graduate Research**

(1–4)

Prerequisites: EDFN 500, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

- **EDEL 598 - Graduate Directed Study**

(1-4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

Electrical and Computer Engineering (Undergraduate)

In addition to prerequisites listed for individual courses, ENGL 102, COMM 150, and EE 290 are prerequisite to all upper division EE courses. *Students subject to catalogs prior to 1997-1999 satisfy this prerequisite with ENGL 101 or 190.*

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

- **EE 154 - Special Topics in Electrical Engineering**

(1-4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in electrical engineering, as announced in Schedule of classes. May be repeated to maximum of 8 units. Permission needed by ECE department.

- **EE 204 - Circuit Analysis**

(4)

Corequisites: MATH 208, PHYS 213. Electric circuit analysis, transient and steady state; and introduction to frequency response. Graded ABC/NC.

- **EE 210 - Electrical Measurements Laboratory**

(1)

Prerequisite: PHYS 213. Characteristics and limitations of analog and digital electrical and electronic instrumentation, signal sources, and d-c power supplies. Analysis, tabulations, and graphical presentation of measurement data and technical report writing. Laboratory 3 hours.

- **EE 211 - Electric Circuits Laboratory**

(1)

Prerequisite: EE 204. Experimental verification of the laws of electric circuits. Laboratory 3 hours.

- **EE 244 - Digital Engineering**

(4)

Binary systems; Boolean functions and their simplification; introduction to analysis and design of digital systems.

- **EE 246 - Digital Logic Laboratory**

(1)

Prerequisites: EE 244. Laboratory experiments in logic design of digital systems. Laboratory 3 hours. Graded ABC/NC.

- **EE 290 - Electrical Engineering Computing**

(3)

Prerequisites: MATH 209, PHYS 213. Use of computers in electrical engineering; hardware, software; languages; algorithms; structured design; spreadsheets; graphics; word processing; curve fitting; SPICE and other electrical engineering applications. Lecture 2 hours, laboratory 3 hours.

- **EE 304 - Electric Machines**

(4)

Prerequisite: EE 204 with C or higher grade. Electromechanical principles and applications to electric machines.

- **EE 314 - Electromagnetic Energy Conversion Laboratory**

(1)

Prerequisites: EE 304, 211. Laboratory investigations of electromechanical machines. Laboratory 3 hours.

- **EE 317 - Electronics Laboratory I**

(1)

Prerequisites: EE 211, 210, 336. Laboratory study of semiconductor devices and applications in basic circuits. Laboratory 3 hours.

- **EE 320 - Analog Communication Systems**

(4)

Prerequisite: EE 332. Bandwidth requirements of audio, video, and pulse signals; carrier communications systems; types of modulation; communication circuits; transmitters and receivers.

- **EE 321 - Communications Laboratory**

(1)

Prerequisites: EE 317; 320 (may be taken concurrently). Laboratory investigations of characteristics of communication systems and components. Laboratory 3 hours.

- **EE 330 - Writing for Electrical Engineers**

(1)

Corequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), completion of any two 300-level EE lecture courses. Writing for electrical engineers. Intensive practice in writing abstracts, reports, reviews, and other forms of technical writing. Some oral presentations required. Laboratory 3 hours.

- **EE 332 - Systems Analysis**

(4)

Prerequisites: EE 204; Corequisite: MATH 215. Linear systems analysis by Fourier and Laplace transform and state space methods; complete system response and system applications.

- **EE 334 - Probability and Random Processes**

(4)

Corequisite: MATH 209. Concept of probability, random variables, probability distribution and density functions, multiple random variables, introduction to random processes and noise.

- **EE 336 - Electronics**

(4)

Prerequisite: EE 204. Analysis and design of small-signal and large-signal electronic amplifiers; frequency response; feedback.

- **EE 340 - Electronics Laboratory II**

(1)

Prerequisite: EE 317. Laboratory study of electronic amplifier circuits. Laboratory 3 hours.

- **EE 345 - Microcomputer Programming**

(4)

Prerequisite: EE 244. Organization and structure of microcomputer systems; machine and assembly language programming; system software for microcomputers.

- **EE 347 - Computer Logic Design**

(4)

Prerequisite: EE 244. Integrated circuit digital functions; design of computer system by means of register transfer method; processor unit design; control logic design; design of general purpose computers.

- **EE 360 - Control Systems Theory I**

(4)

Prerequisite: EE 332. Analysis and design of feedback control systems by classical methods; introduction to state-variable methods.

- **EE 371 - Analog Electronics**

(4)

Prerequisite: EE 336. Multistage amplifiers; frequency and time-domain response; feedback; tuned amplifiers; distortion; power amplifiers; operational amplifiers.

- **EE 372 - Digital Electronics**

(4)

Prerequisites: EE 244, 336. Switching mode circuits; diode circuit applications; opto-electronic devices; TTL, CMOS, ECL families; logic gates; SSI, MSI, LSI circuit functions.

- **EE 412 - Antennas**

(4)

Corequisite: EE 437. Dipole, loop, aperture, and other antennas; array theory, antenna patterns, and pattern multiplication; radiation resistance, directivity, and gain; antenna synthesis and design.

- **EE 413 - Systems Engineering**

(4)

Prerequisite: EE 360. System definitions and concepts; systems age; systems engineering process; conceptual, preliminary, and detail system design; system test and evaluation; systems engineering planning, organization, and management.

- **EE 420 - Digital Communication Systems**

(4)

Prerequisite: EE 320. Analysis and design of digital communication systems; source encoders; PCM; matched filter detectors; timing considerations; baseband systems; ASK, FSK, PSK; error analysis; design considerations.

- **EE 421 - Coding for Communications**

(4)

Prerequisite: EE 320. Information theory; entropy coding; data compression; forward error detection and correction.

- **EE 422 - Digital Signal Processing**

(4)

Prerequisite: EE 320. Sampling, A/D conversion; discrete linear system theory; Z-transform; digital filters, recursive and nonrecursive designs; quantization effects; fast Fourier transform; windowing.

- **EE 424 - Fiber Optics**

(4)

Prerequisites: EE 320. Generation, transmission, and modulation of beams, propagation of optical beams in homogeneous and inhomogeneous media; electro-optic modulation of laser beams.

- **EE 426 - Digital Image Processing**

(4)

Prerequisite: EE 320. Digital image fundamentals, image transforms, image enhancements, image restoration and image encoding.

- **EE 427 - Speech Signal Processing**

(4)

Prerequisites: CS 242, EE 334, EE 422. Speech signal processing applied to real-world problems using digital and statistical signal processing techniques. Speech coding; temporal and statistical approaches; speech recognition.



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Electrical and Computer Engineering (Undergraduate)

In addition to prerequisites listed for individual courses, ENGL 102, COMM 150, and EE 290 are prerequisite to all upper division EE courses. *Students subject to catalogs prior to 1997-1999 satisfy this prerequisite with ENGL 101 or 190.*

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

• EE 428 - Digital Signal Processing Laboratory

(1)

Prerequisites: EE 290, EE 332. Graphical computing and data acquisition technique via LabVIEW to solve Electrical Engineering problems. LabVIEW, graphical computing, data acquisition.

• EE 431 - Electric Power Distribution

(4)

Prerequisite: EE304. Planning, designing and analyzing electric power distribution systems. Distribution circuits, and equipment. Underground and overhead power distribution, protection of distribution circuits, equipment and loads. Power quality. Distribution economics.

• EE 432 - Power Transmission Lines

(4)

Prerequisite: EE 304. Function and structure of power systems, transmission lines, generalized circuit constants, circle diagrams, system representation.

• EE 433 - Electric Power System Analysis

(4)

Prerequisite: EE 432. Load-flow studies, load-flow control, symmetrical components, short circuits on machines and systems, system protection, elements of system stability, economic operation.

• EE 434 - Electromagnetic Energy Conversion

(4)

Prerequisite: EE 304. Analysis of realistic machine performance; steady state and dynamic response of d-c, synchronous and induction machines; fractional horsepower a-c motors.

• **EE 436 - Analog Integrated Circuits**

(4)

Prerequisite: EE 336. Analysis, design, and characteristics of operational amplifiers, voltage comparators and regulators, analog-to-digital, and digital-to-analog converters.

• **EE 437 - Electric and Magnetic Fields**

(4)

Prerequisite: EE 332. Static field theory and applications; Maxwell's equations and applications; electromagnetic waves; introduction to transmission lines.

• **EE 439 - Digital Integrated Circuits**

(4)

Prerequisites: EE 336. In-depth study of logic families aided by computer analysis; VLSI circuit design; regenerative circuits; memories; A-D converters.

• **EE 440 - Data Communications and Networking**

(4)

Prerequisite: EE 320 and CS 242. Data communications, layered communication architectures, low-layer network protocols, local area networks, and wide area networks.

• **EE 442 - Multimedia Networking**

(4)

Prerequisites: EE290, 440. Principles, protocols and systems of multimedia networking. Video/audio compression standards (MPEG-x, MP3). Real-time transport protocol. QoS in video streaming. Multimedia over Internet.

• **EE 443 - Programmable Logic Laboratory**

(1)

Prerequisites: EE 448. Laboratory experiments in design of combinational and sequential digital circuits using a hardware description language (e. g. Verilog) and programmable devices. Laboratory 3 hours.

• **EE 444 - Computer Architecture**

(4)

Prerequisite: CS 245. Computing Systems. Integrated study of computer hardware and firmware. Introduction to parallel architectures.

- **EE 445 - Microprocessor Interface Design**

(4)

Prerequisite: EE 345. Microprocessor architecture and timing; bus structures; memory system design; parallel and serial input/output; interrupts and timers; analog-digital and digital-analog conversion.

- **EE 446 - Embedded Architectures**

(4)

Prerequisites: CS 242, EE 244. Modeling of embedded systems, ARM assembly, embedded computing, memory technology, real-time systems, and embedded applications.

- **EE 447 - Backend Compiler Technology**

(4)

Prerequisites: CS 342 and EE 347. Introduction to backend compiler fundamentals: intermediate representations, control flow analysis, profiling, data flow analysis, function inlining, classical optimizations, register allocation, dependence graphs, machine description files and instruction scheduling.

- **EE 448 - HDL Design and Simulation Laboratory**

(1)

Prerequisite: EE 246. Design of digital systems using a hardware description language (HDL). Hierarchical design methodologies are introduced, where designs can be modeled behaviorally and/or structurally. Designs are verified through simulation. Laboratory 3 hours.

- **EE 449 - Computer Organization**

(4)

Prerequisite or corequisite: EE 347. Central processor unit organization; microprocessor architecture; control unit organization; microprogramming; input-output, interface; microcomputer hardware organization.

- **EE 454 - Special Topics in Electrical Engineering**

(1-4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced engineering subjects upon approval of instructor. Permission needed by department.

- **EE 460 - Control Systems Theory II**

(4)

Prerequisite: EE 360. Design of multiple-loop, multiple-signal control systems; nonlinear control systems; computers and optimization.

- **EE 461 - Discrete-Time Control Systems**

(4)

Prerequisite: EE 360. Discrete-time signals; difference equations; Z-transform; modified Z-transform; stability analysis techniques; design of digital controllers; state space representations of linear discrete systems; controllability and observability.

- **EE 462 - State Space Control Systems**

(4)

Prerequisite: EE 360. State space representation; linear transformation; solution of state equations, model decomposition, equivalent systems; controllability, observability, duality theorem; stability analysis; design by state and output feedback.

- **EE 468 - Control Systems Laboratory**

(1)

Prerequisite or corequisite: EE 360. Analysis and design of fundamental control systems by model and full-scale construction in laboratory, and by employing root-locus, frequency response, analog simulation, and other standard techniques. Laboratory 3 hours.

- **EE 472 - Optoelectronics**

(4)

Prerequisite: EE 336. Characteristics and applications of optoelectronic devices and systems including photodiodes and phototransistors, image sensors, light-emitting diodes and laser diodes, and fiber optic systems.

- **EE 481 - Introduction to Robotics**

(also listed as ME 481)

(4)

Prerequisite: EE 360 or ME 410. General considerations of robotic manipulator; spatial description, homogeneous transformations; manipulator kinematics; inverse manipulator kinematics; motion trajectories; static forces.

- **EE 483 - Power Electronics**

(4)

Prerequisite: EE 336. Electrical and thermal characteristics of power thyristors, BJTs and FETs, diodes, triacs, diacs, and UJTs; applications in energy conversion and control switching power supplies, converters, and inverters.

- **EE 485 - Introduction to Biomedical Devices**

(4)

Prerequisite: EE204. In this introduction to biomedical engineering, students will explore the use of electronic circuit design in medical instrumentation. Topics include electronic device design of neural prostheses and signal conditioning circuitry.

- **EE 486 - Biomedical Signal Processing**

(4)

Prerequisites: EE 332. This course is designed to teach students signal processing techniques used in biomedical areas, particularly those involving neural signal acquisition, such as medical imaging, auditory and visual processing, and neural decoding.

- **EE 491 - Robotics Laboratory**

(1)

Prerequisite or corequisite: EE/ME 481. Robot system installation; programming and languages; link kinematics and motion planning; control of the arm; automated manufacturing and computer-integrated manufacturing (CIM).

- **EE 496A - Senior Design I**

(3)

Prerequisites: Selection of upper division specialization within EE option; completion of at least two 300-level required courses; Corequisites: EE330; completion of at least one upper division lab. Study of engineering design processes; selection of a design project focusing on typical problems encountered in engineering practice; completion of the conceptual design under faculty-supervision.

- **EE 496B - Senior Design II**

(3)

Prerequisite: EE 496A with grade of C or higher. Build upon on the conceptual design developed in EE496A to achieve a detailed design and initialize the implementation. Permission needed by department.

- **EE 496C - Senior Design III**

(3)

Prerequisite: EE 496B with grade of C or higher. Completion of design project initiated in EE 496AB. Final written and oral report are required.

- **EE 498 - Cooperative Education**

(1)

Prerequisites: Permission is granted by department under the following conditions: acceptance by the corresponding worksite; junior, senior, or graduate standing; minimum of 2.5 GPA for undergraduates and 3.00 for graduates; graduate students must have completed minimum of 12 quarter units of graduate EE coursework at CSULA. Integration of Electrical Engineering work experience with academic program individually planned through industry mentors under unpaid internship. Minimum of 10 hours per week required. Letter of completion by industry mentor, written abstract, and written final report are required. May only be taken once for credit. Graded CR/NC.

- **EE 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Permission needed by department. Project selected in conference with the sponsor before registration; progress meeting held regularly, and a final report submitted. May be repeated for credit.

Electrical and Computer Engineering (Graduate)

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

- **EE 513 - System Analysis and Design**

(4)

Prerequisite: EE 413. Alternative system designs for decision making; models for economic evaluations; system optimization in design and operation; queuing systems; control concepts in system design; system design for reliability and affordability.

- **EE 514 - Systems Risk Analysis**

(4)

Prerequisite: EE 413. Elements and types of engineering risk; Probabilistic risk assessment; Risk scenarios; Uncertainty analysis; Risk identification and ranking; Decision making using risk information.

• **EE 515 - Systems Performance Analysis**

(4)

Prerequisite: EE 413. Engineering reliability evaluation and analysis; mechanical and human reliability; engineering maintainability and maintenance; design considerations for system reliability and maintainability; maintenance life cycle costing.

• **EE 516 - Systems Architecture**

(4)

Prerequisite: EE 413. Complexity and systems architecting; Heuristics; Builder-architected, manufacturing, social, software/information technology, and collaborative systems; Integrated modeling.

• **EE 520 - Advanced Digital Communications I**

(4)

Prerequisites: EE 334, EE 420, MATH 402A. Basic signal space concepts; elements of detection theory; spectral analysis of signals; analytic signals and narrowband processes; performance analysis of various digital communication schemes.

• **EE 521 - Advanced Digital Communications II**

(4)

Prerequisites: EE 520. Digital transmission over bandwidth-limited channels; intersymbol interference; linear, fractionally spaced, and decision feedback equalizers; adaptive equalization; characterization of the time-varying fading channel; modulation techniques for fading channels.

• **EE 522 - Principles of Signal Compression**

(4)

Prerequisite: EE 334; MATH 402A. Entropy and mutual information; the rate-distortion functions and the source coding theorem; sampling and quantization; linear prediction; transform coding; entropy coding.

• **EE 523 - Wireless Communications**

(4)

Prerequisite: EE 520. Corequisite: EE 521. Analysis and design of wireless communication systems at the link level, multiple access techniques, wireless networking, and introduction to wireless protocols and standards. Lecture 4 hours. Traditional grading (A, B, C, D, F).

• **EE 524 - Simulation of Communication Systems**

(4)

Prerequisite: EE 520. Corequisite: EE 521. Theory and practice of digital Montecarlo time-domain simulation of digital and analog transmission systems including linear and nonlinear system modeling, performance evaluation, and computer efficient simulation techniques. Applications to radio relay links, satellite and wireless communications. Lecture 1 hour, laboratory 3 hours. Traditional grading (A, B, C, D, F).

- **EE 525 - Optical Communications**

(4)

Prerequisite: EE 520. Corequisite: EE 521. Analysis and design of optical communication systems, terrestrial fiber optic systems and free space laser communication systems. Optical sources, detectors, and optical system components. Homodyne and heterodyne detection and optical modulation techniques. Fiber optic networks (WDM, TDM, CDM and OCS). Lecture 4 hours. Traditional grading (A, B, C, D, F).

- **EE 533 - Computer Method in Power Systems**

(4)

Prerequisites: EE 332, 433. Algorithms for formulation of network matrices; short-circuit studies on computers; iterative solutions of algebraic and differential equations; digital computer techniques for load flow.

- **EE 534 - Power System Stability**

(4)

Prerequisites: EE360, 533. Steady state and transient stability of electric power systems; stability criterion; emphasis on digital computer techniques as applied to stability problems of electric power systems.

- **EE 535 - Power System Protective Relaying**

(4)

Prerequisite: EE433. Philosophy, purpose and goals of power system protective relaying. Electromechanical and digital relays. Instrument transformers. Directional, overcurrent, distance and differential protection. Protective relay schemes.

- **EE 537 - Faulted Power Systems**

(4)

Prerequisite: EE 433. Analysis of symmetrical and unsymmetrical faults in electric power systems. Computation of fault currents; applications.

- **EE 544 - Computer Networks and Internets**

(4)

Prerequisite: EE 440. Advanced study of computer networks, network performance analysis, routing algorithms and protocols, TCP/IP, next generation Internet, and Internet applications.

- **EE 545 - Mobile Ad Hoc Networks**

(4)

Prerequisites: EE440. Principles, practices, and research topics on Ad Hoc Networks and Security. MAC layer design (IEEE802.11, MACAW), routing (DSR, AODV, LAR), cryptography, authentication, access control and security protocols (WEP, WPA).

- **EE 547A - Computer System Architecture I**

(4)

Prerequisite: EE 449. Computational algorithms and the arithmetic processor, central control and microprogramming, input-output processors, data communication processors and time-sharing systems.

- **EE 547B - Computer System Architecture II**

(4)

Prerequisite: EE 547A. Computational algorithms and the arithmetic processor, central control and microprogramming, input-output processors, data communication processors and time-sharing systems.

- **EE 548 - High Performance Computing**

(4)

Prerequisites: EE 447, 547A. Study of compiler and hardware support for superscalar and EPIC architectures including predicated execution, control speculation, data speculation, modulo scheduling, acyclic global scheduling, memory latency hiding techniques, and dynamic compilation.

- **EE 554 - Special Topics in Electrical Engineering**

(4)

Prerequisite: Graduate standing in Electrical Engineering. Study of selected graduate level topics not currently offered in the graduate program. The topics of the course and its content shall be established by the instructor offering the course. Permission needed by department. May be repeated for credit.

- **EE 560 - Linear Systems Analysis**

(4)

Prerequisite: EE 462. Vector spaces; Lyapunov stability analysis for linear systems; controllability; observability; stabilizability; detectability; Kkalman canonical forms; relation between state space and transfer function; system irreducibility; state and output feedback system design; separation principle; design of decoupled systems.

- **EE 561 - Stochastic Systems and Estimation**

(4)

Prerequisite: EE334, 360. Stochastic processes, power spectrum analysis, response of linear systems to stochastic inputs, Markov chains, estimation theory and Kalman filtering, applications to control and communications.

- **EE 562 - Advanced Digital Control Systems**

(4)

Prerequisite: EE 461, 462. Signal flow graphics, state equations with sample and hold; state transition equation, eigenvalues and eigenvectors; state diagram, controllability and observability ; pole placement design, microprocessor and DSP control

- **EE 563 - Optimal Control Theory**

(4)

Prerequisite: EE 462. Optimal control; performance measures; principle of optimality; dynamic programming; Hamilton Jacobi-Ballman equation; variational approach; constrained extrema; Pontryagin principle, necessary conditions; solution techniques; singularity cases; applications.

- **EE 585 - Neural Computation**

(4)

Prerequisites: EE 334, EE 485, EE 486. Learn how computation is performed by the human nervous system and how to apply these models to biomedical problems.

- **EE 595A - Graduate Design and Research Methodology I**

(2)

Prerequisite: Graduate standing. General system design principles, methodology, and process. Development of system design specs; system requirement development; preliminary design and simulation. Graded CR/NC.

- **EE 595B - Graduate Design and Research Methodology II**

(2)

Prerequisite EE 595A. System design iteration and optimization, requirement flow down, and subsystem design and simulation. Requirement vs. design trade off; final design documentation and presentation.

- **EE 596 - Comprehensive Examination**

(0)

Prerequisites: Permission needed by department. Students who select the comprehensive examination should expect to take it the quarter they complete all course work on their program, and must comply with college and department requirements. Grade CR/NC

- **EE 597 - Graduate Research**

(1–5)

Prerequisites: Permission needed by department. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Grade CR/ NC. Instructor consent to act as sponsor, departmental approval of project prior to registration.

- **EE 598 - Graduate Directed Study**

(1–4)

Prerequisites: Permission needed by department. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit. Instructor consent to act as sponsor.

- **EE 599 - Thesis**

(1–4)

Prerequisites: Permission needed by department. Independent research in a thesis. Must be repeated to maximum of 4 units. Graded CR/ NC. Advancement to candidacy, instructor consent to act as sponsor, college approval of the topic prior to registration.

- **EE 900 - Graduate Studies**

(0)

Prerequisite: Permission needed by department. Graduate Studies

Electronics and Internetworking (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 120 - DC Electronics**

(3)

DC circuits; hands-on experiences in using VOM and DVM for basic electrical measurement and troubleshooting. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 325 - Industrial Controls**

(3)

Prerequisite: TECH 321. Sensors and their control applications; process control and data acquisition; motor controls; practical control applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 327 - Microprocessors**

(3)

Prerequisite: TECH 326. Architecture, programming, interface, and applications of microprocessors; hands-on programming and interfacing applications. Lecture 1 ½ hours, laboratory 4 1/2 hours.

- **TECH 421 - Internetworking Technology**

(4)

Computer networking in LAN and WAN, OSI model, TCP/IP, data encapsulation, LAN devices, network media, cable testing, structured cabling, Ethernet technology, layer 2 switching, IP addressing, subnetting, and routing.

- **TECH 422 - Router Configurations**

(4)

Prerequisite: TECH 421. The course covers the WANS, Cisco Router and its configuration, Cisco Internetworking Operating System (IOS), distance vector routing protocols like RIP and IGRP, intermediate TCP/IP, ACLS, and basic router troubleshooting.

- **TECH 423 - Intermediate Routing and LAN Switching**

(4)

Prerequisite: TECH 422. The topics of classless IP addressing techniques: VLSM and CIDR, single area OSPF and EIGRP routing, LAN switching and design, switch configuration, Spanning Tree Protocol, VLANs, and VLAN trunking protocol.

- **TECH 424 - Wide Area Networks**

(4)

Prerequisite: TECH 423. Addresses Scaling with NAT and DHCP, WAN physical and data link protocols, WAN connections, LAN/WAN case study, PPP, ISDN, DDR, Frame Relay, network management, and CCNA certification preparation.

- **TECH 425 - Programmable Controls**

(3)

Prerequisite: TECH 325. Applications, programming, and trouble-shooting of programmable logic controllers (PLC) and motion controls with servo and stepper motors; hands-on applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

English (Undergraduate)

Eligibility for ENGL 095, 096, and 101 will be determined by the results of the English Placement Test (EPT), which students must take before they may register for any of these courses.

Upper division standing is prerequisite to enrollment in 400-level courses. ENGL 102 or its equivalent is prerequisite to all upper division English courses. Prerequisite for all literature courses: ENGL 250, or 200A, 200B or 200C unless otherwise stated.

• ENGL 095 - Basic Writing I

(4)

Prerequisite: English Placement Test (placement determined by student's score). Instruction in basic writing and reading. Focus on writing processes such as invention, revision, and editing. Use of personal experience and/or observation in narrative and expository essays. Graded CR/NC. Not open to students with credit for this course, an equivalent, or a higher level English composition course. Students with two NC grades may not enroll again. No credit toward baccalaureate.

• ENGL 096 - Basic Writing II

(4)

Prerequisite: English Placement Test (placement determined by student's score) or passing grade in ENGL 095. Frequent essays based on reading and responding to expository prose; instruction in expository writing conventions and critical reading strategies. Graded CR/NC. Not open to students with credit for this course, an equivalent, or a higher level English composition course. Students with two NC grades may not enroll again. No credit toward baccalaureate.

• ENGL 100 - Supplemental Writing Practice

(1)

Prerequisite: Permission of the instructor, concurrent enrollment in English 101 or 102 or other designated course. Supplemental practice in revising and editing essays. Regular meetings with Writing Center tutor. May be repeated to maximum of 4 units. Graded CR/NC.

• ENGL 101 - Composition I

(4)

Prerequisites: Placement by English Placement Test (EPT) or completion of ENGL 096. Reading and writing to develop and communicate ideas. Instruction in strategies for planning, composing, and revising college writing that incorporates authorities, examples, arguments, and facts to write developed, supported texts. Graded A,B,C/NC.

GE A1

• ENGL 101S - Composition I: Reflective and Expository Writing with Structured Support

(4)

Prerequisites: Placement by English Placement Test (EPT). Corequisite: ENGL 100. Reading and writing to develop and communicate ideas. Instruction in strategies for planning, composing, and revising college writing that incorporates authorities, examples, arguments, and facts to write developed, supported texts. Graded A,B,C/NC

GE A1

• ENGL 102 - Composition II: Analytic and Persuasive Writing (4)

(4)

Prerequisites: ENGL 101, ENGL 101S, or equivalent. Building upon the rhetorical skills developed in ENGL 101 or ENGL 101S, students will

develop analytical, interpretive, and information literacy skills necessary for writing a well-supported, researched, academic argument. Continued instruction in strategies for generating, revising, editing, and proofreading writing.

• **ENGL 200A - The Classical and Medieval Tradition**

(4)

Prerequisite: ENGL 102*. Survey of classical and medieval literature in the European tradition. Frequent compositions on various literary topics.

• **ENGL 200B - British Literature Survey I**

(4)

Prerequisite: ENGL 102*. A survey of representative literary texts from the Medieval Period through the Restoration. Frequent compositions on literary topics.

• **ENGL 200C - British Literature Survey II**

(4)

Prerequisite: ENGL 102*. A survey of representative literary texts from the eighteenth century through the present. Frequent compositions on literary topics.

• **ENGL 207 - Beginning Creative Writing**

(4)

A beginning creative writing workshop that introduces students to techniques of imaginative writing in fiction, poetry, and drama in a constructive workshop setting that includes analysis of published literary works.

GE C1

• **ENGL 210 - Conceptions of the Self in Philosophy and Literature**
(also listed as PHIL 210)

(4)

Examination of various conceptions of the self as they arise in philosophical and literary texts; examination of methods and goals of the philosophical and literary arts.

GE C5

• **ENGL 225 - Interpreting World Cinema**
(also listed as TVF 225)

(4)

Critical survey of world cinema as art and cultural artifact. Provides critical methodology and practical tools for analyzing and interpreting international film movements, genres and themes.

GE C2

• **ENGL 230 - Language and Society**
ANTH 230

(4)

An introduction to linguistics as a social science. Exploration of the relationship of language to a variety of social issues including race, class, and gender.

GE D

- **ENGL 240 - Film, Novel, Theater**
(also listed as TVF and TA 240)

(4)

Prerequisite: Completion of ENGL 102*. An exploration of film, theater, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact.

GE C5 *Students subject to catalogs prior to 1993-95 satisfy the prerequisite with ENGL 101 or 190.

- **ENGL 250 - Understanding Literature**

(4)

Forms and techniques of fiction and/or drama, and poetry; analysis of representative works of various periods and cultures; critical compositions and reports. Not open to English majors.

GE C1

- **ENGL 258 - Mythology in Literature**

(4)

Analysis and interpretation of dominant myths in representative works of world fiction, drama, and poetry; critical compositions.

GE C1

- **ENGL 260 - Women and Literature**

(4)

Multicultural approach to studying the ways women's diverse experiences are represented in literature.

GE C1

- **ENGL 276 - Introduction to Play Writing**
(also listed as TA 276)

(4)

Prerequisite: ENGL 200A or 200B or 200C or TA 101. Collaborative approach to writing for the stage; emphasis on writing theory and techniques; introduction to dramaturgy, directing, literary management, and staged reading.

- **ENGL 280 - Contemporary World Literature**

(4)

Recent fiction, poetry, and drama written by authors outside the U.S.; close analysis of representative works; critical compositions.

GE C1

- **ENGL 300 - Composition for ESL Students**

(2)

Prerequisite: ENGL 102 or equivalent. Strategies to facilitate increased acquisition of English and mastery of college-level writing for students for whom English is a second language. May be repeated to a maximum of 4 units. Graded CR/NC

- **ENGL 301 - Introduction to Language**

(4)

Introduction to the structures and history of the English language; traditional and alternative grammars; theories of language as they relate to language acquisition and sociolinguistics. Some sections may include a service learning option.

- **ENGL 305 - English Grammar and Usage**

(4)

Analysis of English grammar; understanding the function of parts of speech as sentence and phrase components; identifying standard and non-standard usage in written expression.

- **ENGL 308 - Expository Writing**

(4)

Prerequisite: Passing WPE score. Methods of and practice in writing analytical essays that present persuasive arguments; emphasis on coherent organization, clear style, rigorous argumentation.

- **ENGL 310 - Genres of Writing**

(4)

Prerequisite: Field experience and concurrent enrollment in 1 unit of ENGL 398 required for students seeking certification of subject area competency through the Single Subject Teaching option. Methods of and practice in genres of writing taught in middle and secondary schools including creative writing, journalism, and expository writing.

- **ENGL 327 - Ethnicity and Emotions in U.S. Film**

(also listed as CHS 327 and PAS 327)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The critical analysis of the representations of ethnicity and emotions in U.S. film.

GE Theme E ; Approved diversity course

- **ENGL 340 - Writing in the Major**

(4)

Prerequisites: ENGL 102. Introduction to methods of reading, writing, and research in the discipline of English studies: emphasis on close reading, critical response, and intensive writing practice.

- **ENGL 354 - Selected Topics in Literature**

(4)

Representative works in literature of various thematic or stylistic types. Specific topics announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit.



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HELP

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English (Undergraduate)

Eligibility for ENGL 095, 096, and 101 will be determined by the results of the English Placement Test (EPT), which students must take before they may register for any of these courses.

Upper division standing is prerequisite to enrollment in 400-level courses. ENGL 102 or its equivalent is prerequisite to all upper division English courses. Prerequisite for all literature courses: ENGL 250, or 200A, 200B or 200C unless otherwise stated.

• ENGL 377 - Literary Explorations of Justice and Racism (also listed as PAS 377)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of the literary depiction of racism and justice, with emphasis on the treatment of civil rights issues in fiction, drama, and poetry.

GE Theme H ; Approved diversity course

• ENGL 379 - Gender and Sexuality in Popular Culture (also listed as TVF 379)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and critical analysis of narrative and visual representations of gender and sexuality in the modes of popular culture, such as television, film, advertising, popular fiction, and the tabloid press.

GE Theme C ; Approved diversity course

• ENGL 381 - Legacy of Greek and Roman Literature

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Legacy of ancient literature through focus on three themes: the self consciousness, society, and nature. May include a service learning option.

GE Theme I

• ENGL 382 - Violence and Literature

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Thematic and critical examination of representations of violence in literature. Will consider violence across cultural, racial, sexual and generational boundaries.

GE Theme B

• **ENGL 383 - Narratives of Maturity and Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical examination of the representations of human maturity and aging in literary works from a range of periods, forms and genres. Examines the part that aging plays in human experience.

GE Theme F

• **ENGL 385 - Sex and Gender in Language and Literature**
(also listed as COMM 385)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of concepts of sex, gender as experienced in language and literature. Comparative language behavior of women and men as revealed in research on communication and in representative literary works, both classical and modern.

GE Theme C ; Approved diversity course

• **ENGL 389 - Human Emotions in Literary Expression**
(also listed as ML 389)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Emotions such as love, anger, laughter, fear, joy, sorrow, guilt, pain or oppression, as represented in prose and poetic forms of various cultures.

GE Theme E

• **ENGL 392 - Statement and Literary Magazine Editing**

(1-4)

Prerequisite: Consent of faculty member advising the course. Techniques of editing and producing literary magazines. May be repeated to maximum of 6 units. Graded CR/NC.

• **ENGL 398 - Cooperative Education**
UNIV 398

(1-8)

Courses appropriate to the work experience: approval by major department Cooperative Education coordinator. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded CR/NC.

• **ENGL 400 - Introduction to Linguistics**
(also listed as ANTH 471)

(4)

Descriptive and historical study of language; problems of data collection and techniques of analysis, linguistic structure, language classification, language families of the world, language in its socio-cultural setting.

• **ENGL 401 - English Language in America**

(4)

Introduction to linguistic theory; elementary structural analysis of phonology, morphology, and syntax; discussion of levels and functional varieties of usage.

- **ENGL 402 - History of the English Language**

(4)

External history; structural history; history of vocabulary; principles of historical linguistics.

- **ENGL 403 - Language and Culture**
(also listed as ANTH 470)

(4)

Prerequisite: ANTH 250. Nature, origin, and evolution of language. Survey of approaches and studies illustrating variations in the relation of habitual thought and behavior to language.

- **ENGL 405 - Modern English Grammar**

(4)

Prerequisite: ENGL 401. Transformational generative analysis of contemporary morphology and syntax; its relationship to alternate grammars of English.

- **ENGL 406 - Writing Nonfiction**

(4)

Prerequisite: Passing WPE score. Methods of and practice in writing documentary, biographical, and other nonfiction prose; emphasis on style, detail, effective development.

- **ENGL 407 - Writing Fiction**

(4)

Prerequisite: Instructor consent. Instruction in the technique and art of writing fiction. May be repeated to maximum of 16 units.

- **ENGL 408 - Writing Poetry**

(4)

Prerequisite: Instructor consent. Instruction in the technique and art of writing poetry. May be repeated to maximum of 16 units.

- **ENGL 411 - Practicum in Tutoring English**

(2)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Discussion of composition theory, linguistic theory, and connections between reading and writing. Practice in effective tutoring methods in various educational situations. Lecture 2 hours, lab 4 hours. Graded CR/NC.

- **ENGL 416 - Chaucer**

(4)
Troilus and Criseyde, the Canterbury Tales, and selected minor poems as works of art and as reflections of culture and literary conventions of the time.

• **ENGL 417 - Shakespeare I**

(4)
Shakespearean drama. Intensive study of five or six plays chosen from the following: Julius Caesar, Romeo and Juliet, Macbeth, Twelfth Night, The Merchant of Venice, Henry IV– Part One, Richard III, and Hamlet; elements of Shakespearean drama.

• **ENGL 418 - Shakespeare II**

(4)
Intensive study of four or five plays (and poems) not included in 417; range and diversity of Shakespeare's art in his time and ours.

• **ENGL 419 - Milton**

(4)
Selected works of John Milton.

• **ENGL 424 - Greek and Roman Drama in Translation**

(4)
Plays by Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence; characterization, style, focus, and problems of translation.

• **ENGL 428 - Contemporary Drama: Continental, English, and American**

(4)
Prerequisite: ENGL 427 recommended. Representative plays by such dramatists as Brecht, Lorca, Beckett, Sartre, Genet, Pinter, Miller, Williams. Modern poetic drama; epic, existential, and absurdist theatre; theatre of cruelty.

• **ENGL 430 - Children's Literature**

(4)
Prerequisite: Passing WPE score. Analysis and evaluation of literature for children; role of literature in children's education. Some sections may include a service learning option.

• **ENGL 441 - Major Critics**

(4)
Major critical approaches to literature; systems of Aristotle, Dryden or Johnson, Wordsworth, Coleridge; a modern critic or a contemporary critical problem.

• **ENGL 446A - The British Novel: The Eighteenth Century**

(4)

The development of the novel in Britain from late 17th century prose romance through 18th century comic and gothic to early 19th century realistic fiction studied through representative writers.

• **ENGL 446B - The British Novel: The Nineteenth Century**

(4)

The novel in Britain from the late gothic and early realism up to the beginning of modernism studied through representative writers such as Shelley, Dickens, the Brontës, Thackeray, Gaskell, Eliot, Trollope, and Hardy.

• **ENGL 446C - The British Novel: The Twentieth Century**

(4)

The novel in Britain from modernism to the present studied through representative writers such as Conrad, Joyce, Woolf, Forster, and Lawrence.

• **ENGL 451 - Film and Literature**

(4)

Critical study of films adapted from literary sources along with analysis of original literature for purpose of contrasting the media. May be repeated to a maximum of 8 units as subject matter changes.

• **ENGL 452 - Reading Cultures: Cultural Studies and English Literature**

(4)

Survey of the history of cultural studies; introduction to the basic concepts of cultural studies, including mass, popular, and subcultures; cultural analysis of literary texts. Some sections may include a service learning option.

• **ENGL 453 - Modern Women Writers**

(4)

Representative works by such women writers of the modern world as Kate Chopin, Gertrude Stein, Willa Cather, Isak Dinesen, Colette, Virginia Woolf, Doris Lessing, and Gabriela Mistral.

• **ENGL 454 - Selected Topics in Literature**

(4)

Advanced study of representative works in literature of various thematic or stylistic types. Specific topics announced in Schedule of Classes. Open to English majors. May be repeated to a maximum of 8 units for credit.

• **ENGL 460 - Medieval English Literature**

(4)

Lyric poetry, epic and romantic narratives, and dramatic works, from Anglo-Saxon beginnings through fifteenth century, exclusive of Chaucer. Readings in Middle English and in translation.

• **ENGL 461 - Dramatic Literature of the English Renaissance**

(4)

Representative plays by Elizabethan and Jacobean dramatists exclusive of Shakespeare, e.g., Marlowe, Dekker, Webster, Jonson, Beaumont, and Fletcher.

• **ENGL 463 - The English Renaissance**

(4)

Nondramatic literature from Wyatt to Bacon; British and continental cultural, literary, and philosophical backgrounds.

• **ENGL 464 - Seventeenth-Century Literature**

(4)

Prose and poetry from Donne to Dryden, excluding Milton; literary, social and political backgrounds.

• **ENGL 465 - The Augustan Age**

(4)

Literature from Swift and Pope through Johnson; social and philosophical backgrounds.

• **ENGL 467 - The Romantic Age**

(4)

Prose and poetry from Blake to Keats; cultural and philosophical backgrounds.

• **ENGL 468 - The Victorian Age**

(4)

Prose and poetry of major Victorian writers; social and philosophical backgrounds.

• **ENGL 469A - Modern British Literature**

(4)

Representative works of British literature of the early 20th century (1900-1950) will be examined in their cultural and aesthetic contexts.

• **ENGL 469B - Contemporary British Literature**

(4)

A survey of contemporary British Literature and analysis of genres, themes, ideologies, aesthetic innovations and contributions made by post-World War II British writers.

• **ENGL 470 - American Women Writers**

(4)

Critical study of the literary achievements of American women, such as Stowe, Dickinson, Chopin, Wharton, Cather, Hurston, Porter, Morrison, and Kingston.

• **ENGL 471 - American Literature: Beginnings to 1860**

(4)

Puritanism to transcendentalism. Emphasis on such writers as Edwards, Emerson, Hawthorne, Melville, Poe, and Thoreau.

• **ENGL 472 - American Literature: 1860–1914**

(4)

The movement toward realism and naturalism. Emphasis on such writers as Whitman, Dickinson, Twain, Howells, James, and Crane.

• **ENGL 473 - American Literature: 1914 to Present**

(4)

Representative writers of American modernism and postmodernism.

• **ENGL 475A - The American Novel: 19th Century**

(4)

Development of American novel from 19th century to present. Representative works by major American novelists(e.g., Cooper, Hawthorne, Melville, Twain, James, Crane). (Courses need not be taken in sequence.) Supervised practice in writing.

• **ENGL 475B - The American Novel: 1900–1945**

(4)

Development of American novel from 19th century to present. Representative works by major American novelists (e.g., Dreiser, Wharton, Cather, Anderson, Hemingway, Fitzgerald, Faulkner, Steinbeck). (Courses need not be taken in sequence.) Supervised practice in writing.

• **ENGL 475C - The American Novel: 1945–Present**

(4)

Development of American novel from 19th century to present. Representative works by major American novelists(e.g., Wright, Bellow, Ellison, O'Connor, Updike, Pynchon). (Courses need not be taken in sequence.) Supervised practice in writing.

• **ENGL 476 - Ethnic Literature in the U.S.**

(4)

Literature by modern ethnic writers in the U.S. May include, among others, Asian-American, African American, Euro- American, Latino/a, and Native American literature. May involve an optional service learning component.

• **ENGL 477 - Black American Literature**

(4)

Representative works of 19th and 20th century black American writers such as Forten, Chesnut, Dunbar, Hughes, Hurston, Wright, Baldwin,

Walker, Brooks.

• **ENGL 478 - Modern Poetry**

(4)

Backgrounds of modern poetry; representative works by major British and American poets to 1930s, such as Yeats, Eliot, Pound, Frost, Williams, Stevens, and Lawrence.

• **ENGL 479 - Contemporary Poetry**

(4)

Representative works by British and American poets from 1930s to present, such as Auden, Roethke, Thomas, Lowell, Plath, Hughes, Berryman, Creeley, Baraka, Merwin.

• **ENGL 482 - The Bible as Literature: Old and New Testaments**

(4)

Types and styles of Biblical literature; geographical, historical, cultural, and archaeological backgrounds of both Testaments.

• **ENGL 484 - Major Continental Fiction: Cervantes to Balzac**

(4)

Representative works by European authors, e.g., Cervantes, Rousseau, Goethe, and Balzac.

• **ENGL 485 - Major Continental Fiction: Stendhal to Tolstoy**

(4)

Representative works by European authors, e.g., Stendhal, Flaubert, Chekhov, Dostoyevsky, and Tolstoy.

• **ENGL 486 - Twentieth Century Continental Fiction**

(4)

Representative works by European authors, e.g., Proust, Mann, Kafka, Sartre, and Camus.

• **ENGL 487 - Latin American Literature in Translation**

(also listed as ML 487)

(4)

Critical examination of Latin American literature, with emphasis on post-independence and modern periods.

• **ENGL 492 - Seminar in Literature and Language**

(4)

English 492 satisfies the upper division writing requirement for English majors Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); ENGL 340; English major with senior standing. Variable content course in which each seminar

studies in depth a selected topic in literature or language. May be repeated for credit as content changes. Students may enroll in multiple sections in the same term.

• **ENGL 493 - Approaches to Teaching Shakespeare's Plays**

(4)

Extensive analysis of Shakespeare's language and implementation of performance pedagogy; using Shakespeare's sources, textual variants, performance history, cinematic adaptations, and online materials in the secondary classroom.

• **ENGL 494 - Literary Study and the Teaching Profession: A Capstone Course for Prospective English Teachers**

(4)

Prerequisites: Satisfactory completion of the Writing Proficiency Examination (WPE); ENGL 340; English major with senior standing; field experience and concurrent enrollment in 1-unit ENGL 398 required for students seeking certification of subject area competency through the single subject teaching option. Instructional strategies for teaching forms of literature to middle and high school students. Development of teaching portfolio and assessment of interpretive and critical skills.

• **ENGL 499 - Undergraduate Directed Study**

(4)

Prerequisites: Consent of an instructor to act as sponsor. Project selected in conference with sponsor. Maximum of 4 units accepted toward English major or minor. May be repeated to a maximum of 20 units for credit as content changes. Graded CR/NC.

English (Graduate)

Classified graduate standing is required for admission to all 500 level courses

• **ENGL 501 - Theoretical Foundations of Literary Studies**

(4)

Prerequisite or corequisite: ENGL 441. Introduction to the basic concepts and methods of contemporary trends in literary and critical theories.

• **ENGL 502 - Research Methods in Literary Studies**

(4)

Prerequisite or corequisite: ENGL 441. Advanced research methods, literary analysis, and essay writing; emphasis on practical strategies for interpreting literary texts.

• **ENGL 504 - Seminar: Theories of Composition and Rhetoric**

(4)

Research in the theory and pedagogy of composition and rhetoric.

• **ENGL 505 - Seminar: Language and Literacy**

(4)

Prerequisite: ENGL 401. Theories of language structure as they apply to contemporary usage.

- **ENGL 506 - Seminar: The Writing Process**

(4)

Writing and editing instructional, administrative, and professional materials. Emphasis on developing English skills needed to teach writing at secondary school or community college level or to perform as staff writer or editor.

- **ENGL 507 - Seminar: Writing Fiction**

(4)

Prerequisites: ENGL 407 or instructor consent. Advanced workshop in writing fiction. In-class critiques by students and instructor. May be repeated for a maximum of 12 units.

- **ENGL 508 - Seminar: Writing Poetry**

(4)

Prerequisites: ENGL 408 or instructor consent. Advanced workshop in writing poetry. In-class critiques by students and instructor. May be repeated for a maximum of 12 units.

- **ENGL 510 - Proseminar in Literature**

(4)

Prerequisite or corequisite: ENGL 501 or 502. Variable topic, discussion-based, reading course focusing on selected works from a literary period or genre. May be repeated as subject matter changes.

- **ENGL 541 - Seminar: Contemporary Critical Approaches**

(4)

Prerequisite: ENGL 501 or 502. Variable topic seminar focusing on selected contemporary critical approaches to study of English language and literature. May be repeated as subject matter changes.

- **ENGL 550 - Seminar: Topics in Composition, Rhetoric, and Language**

(4)

Prerequisite: ENGL 504 or 505. Variable topic seminar focusing on selected issues in composition, rhetoric, and language, as announced in Schedule of Classes. May be repeated as subject matter changes.

- **ENGL 555 - Principles and Strategies in Teaching Writing**

(4)

Advanced study of theoretical models and pedagogical strategies for teaching writing to diverse groups of students, culminating in a reflective portfolio.

- **ENGL 560 - Seminar: British Literature**

(4)

Prerequisite: ENGL 501 or 502. Study of one or more major writers or of selected significant works in British literature, as announced in

Schedule of Classes. May be repeated as subject matter changes.

• **ENGL 570 - Seminar: American Literature**

(4)

Prerequisite: ENGL 501 or 502. Study of one or more major writers or of selected significant works in American literature, as announced in Schedule of Classes. May be repeated as subject matter changes.

• **ENGL 580 - Seminar: World Literature**

(4)

Prerequisite: ENGL 501 or 502. Study of one or more major writers or of selected significant works in world literature, as announced in Schedule of Classes. May be repeated as subject matter changes.

• **ENGL 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **ENGL 598 - Graduate Directed Study**

(1–4)

Prerequisites: ENGL 501 or 502, instructor consent to act as sponsor, approval of principal graduate adviser. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 5 units with maximum of 4 units allowed in any quarter. Graded CR/NC.

• **ENGL 599 - Thesis**

(1–5)

Prerequisites: Advancement to candidacy, formal approval by department. Independent study resulting in a critical essay. Oral examination about master's essay required. Must be repeated to total of 5 units. Graded CR/NC.

Engineering (Undergraduate)

• **ENGR 150 - Introduction to Higher Education for Engineers**

(1)

University structure, policies, and procedures, resources available, and skills necessary for success. Introduction to profession of engineering; engineering, design process; communication skills in engineering. Laboratory 3 hours. Graded CR/NC.

• **ENGR 154 - Special Topics in Engineering**

(1–4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in engineering, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **ENGR 207 - Materials Science and Engineering**

(4)

Prerequisites: CHEM 101, MATH 206. Understanding structure and fundamental atomic and molecular mechanisms of engineering materials, atom and electron movement, physical and mechanical properties; overview of engineering materials, semiconductors, metals, ceramics, polymers, and composites.

• **ENGR 230 - Design and Manufacturing in Engineering**

(4 units)

For non engineering majors. Integration of theory, experiments, social, and business aspects in conception, design and manufacturing of engineering marvels: from miniature chips to power plants and rockets. "Hands-on" projects, experiments and field trip.

• **ENGR 300 - Economics for Engineers**

(4)

Basic economic concepts, relationships between economic and engineering problems, role of interest and capital in cost minimization, analysis of financial statements, original and alternative investments, capital depreciation and replacement problems.

• **ENGR 301 - Ethics and Professionalism in Engineering**

(1)

Prerequisite: Senior standing in engineering. Ethical and professional standards in engineering profession; impact of engineering profession on society; professional registration and liability; government regulations and legal responsibilities.

• **ENGR 383 - Ancient and Modern Technology**
(also listed as TECH 383)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient technology and technological thought and its relationship to modern science and technological thought

• **ENGR 454 - Special Topics in Engineering**

(1–4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced engineering subjects upon approval of instructor.

• **ENGR 497A - Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of the graduation writing assessment requirement (GWAR) and consent of instructor. Study of engineering design processes. ENGR 497A includes case studies to discuss the impact of design constraints. ENGR 497A is the first of a three-course sequence used to meet the capstone design requirement for the BS in Engineering degree only.

• **ENGR 497B - Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of ENGR 497A and consent of instructor. Study of engineering design processes. ENGR 497B includes

the selection and completion of a faculty-supervised project focusing on typical problems encountered in engineering practice and resulting in a formal report and oral presentation.

- **ENGR 497C - Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of ENGR 497B and consent of instructor. Study of engineering design processes. ENGR 497C includes the completion of a faculty-supervised project focusing on typical problems encountered in engineering practice and resulting in a formal report and oral presentation.

- **ENGR 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Engineering (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

- **ENGR 597 - Graduate Research**

(1–5)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/NC.

- **ENGR 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

- **ENGR 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, school approval of the topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/NC.

Environmental Science (Graduate)

- **ENVS 595 - Directed Field Work**

(1–8)

Prerequisite: Instructor consent, agency agreement to host a part- or full-time internship for at least one but not more than three quarters, and approval of Program Director. Supervised individual field experience in an applied area of environmental science. Graded CR/NC May be repeated to a maximum of 8 units.

• ENVS 597 - Graduate Research

(1–6)

Prerequisite: Instructor consent to act as sponsor and approval of project by student's graduate advisory committee. Independent research towards a master's degree under guidance of faculty. May be repeated to a maximum of 6 units. Graded CR/NC.

• ENVS 598 - Graduate Directed Study

(2)

Prerequisites: Instructor consent to act as sponsor and program approval. Independent, directed study of advanced topics in the field; regular conferences with the sponsor; prospectus development. May be repeated twice for credit but only 2 units count towards a M.S. degree in Environmental Science. Graded CR/NC.

• ENVS 599 - Thesis or Project

(1–8)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, program approval of topic prior to registration. Independent research resulting in thesis or sponsored internship resulting in project. May be repeated to a maximum of 8 units. Graded CR/NC

Finance and Law (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400- level FIN courses.

• FIN 205 - Legal and Regulatory Environment of Business I

(4)

Prerequisite: Sophomore standing. Introduction to the legal and regulatory environment of business, emphasizing the American legal system, contracts, sales, and related legal issues of international business. Instruction in computer-assisted legal research. Credit allowed for only one of FIN 203 and 205. Some sections may be technologically mediated.

C-ID BUS 120 and BUS 125

The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

• FIN 303 - Business Finance

(4)

Prerequisite: ACCT 210. Principles of planning, procuring, and controlling short and long-term financial resources of businesses; cash and capital budgeting; securities markets, costs of capital, and equity valuation.

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HELP

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Finance and Law (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400- level FIN courses.

• **FIN 305 - Legal and Regulatory Environment of Business II**

(4)

Prerequisite: FIN 205. Legal and regulatory issues facing managers and accountants. Legal and regulatory issues in employment, business organizations, securities regulation, secured transactions, bankruptcy, and commercial paper.

• **FIN 325 - Essential Skills for Finance Professionals**

(4)

Prerequisites: ECON 209, FIN 303. Financial databases; statistical analyses of financial data; software applications in finance; written and oral presentation of group projects in finance.

• **FIN 331 - Financial Institutions and Markets**

(4)

Prerequisites: ECON 202, FIN 303. Bank risk management using an asset/liability approach; hedging tools including interest rate swaps and other derivatives; deregulation and its impact on finance industry.

• **FIN 332 - Investments**

(4)

Prerequisite: FIN 303. Risk and return, valuation of stocks and bonds, capital asset pricing model, stock and bond portfolio management, efficient capital markets, evaluation of investment performance, and introduction to options.

• **FIN 335 - Personal Portfolio and Risk Management**

(4)

Understanding and planning personal finance; managing basic personal assets including financial assets, real assets, insurance, and

retirement; extensive analysis of risk management of assets, liabilities and equity in a personal portfolio context.

- **FIN 338 - Real Estate Principles**

(4)

Economics of land ownership and use; fundamentals of ownership, financing, appraisal, management, and transfer of residential and other real property.

- **FIN 339 - Real Estate Practice**

(4)

Real estate contracts, agency and brokerage relationships, physical components of real estate, private ownership interests, documents of transfer, escrows, title insurance, recording, and professional licensing. Some sections may be technologically mediated.

- **FIN 381 - Real Estate Law**

(4)

Prerequisites: FIN 205, four units of business law. Legal aspects of real property ownership and management; emphasis on California law affecting escrows, contracts, licensing, brokerage, co-ownership, deeds, conveyances, trust deeds, mortgages, titles, encumbrances, estates in land, and leases. Some sections may be technologically mediated.

- **FIN 403 - Intermediate Business Finance**

(4)

Prerequisite: FIN 303. Intermediate business financial management emphasizing intensive treatment of valuation, capital asset management, financial structure, sources of funds, and working capital management; combines theory and applications.

- **FIN 431 - Multinational Financial Management**

(4)

Prerequisite: FIN 303. Application of principles of managerial finance to international and multinational business; analysis of risks and problems unique to businesses involved in transnational operations; international sources and uses of funds.

- **FIN 432 - Real Estate Management**

(4)

Management of real property as part of the real estate industry; nature, functions, scope of management principles, services, property care, tenant relations, and records. Some sections may be technologically mediated.

- **FIN 434 - Cases in Financial Management**

(4)

Prerequisites: ACCT 310, FIN 303, BUS 305. Identifying and solving financial problems through the use of cases. Application of financial theory and financial techniques to business problems, using written reports and classroom discussion.

- **FIN 437 - Securities Analysis**

(4)

Prerequisite: FIN 332. Investment practice in analysis of financial statements; selection and valuation of stocks and fixed-income securities, stockholder-management relations, applied securities analysis.

• **FIN 438 - Real Estate Valuation**

(4)

Prerequisite: FIN 338. Valuation of real property; economic analysis of trends and factors influencing real estate ownership, development, and use; current appraisal theory.

• **FIN 439 - Real Estate Finance**

(4)

Prerequisite: FIN 303. Position of real estate finance in the economy; techniques and procedures used to finance real property, including sources of funds, lending policies, and instruments used in California today. Some sections may be technologically mediated.

• **FIN 440 - Futures and Options**

(4)

Prerequisite: FIN 332. Market structures, trading techniques, pricing models, hedging strategies, and investment implications for various futures, option contracts, and derivative assets.

• **FIN 450 - Fixed Income Securities, Analysis and Strategies**

(4)

Prerequisite: FIN 332. Risk, yield and pricing of fixed income securities, Treasury, corporate, agency, tax-exempt and mortgage-backed markets; term structure, bond indexing, interest rate risk immunization; interest rate options and futures.

• **FIN 454 - Special Topics in Finance**

(1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisites. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

• **FIN 493 - Real Estate Investment**

(4)

Prerequisite: FIN 338. Principles of investing in real estate; analytic techniques and economic strategies for maximizing after-tax returns from land, residential properties, shopping centers, and other real estate.

Finance and Law (Graduate)

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses

• **FIN 500 - Business Finance and Law**

(4)

Law and finance for business organizations: forms of business, business law, capital markets, analysis of financial statements, securities law,

security valuation, bankruptcy, and reorganization. Some sections may be technologically mediated.

- **FIN 530 - Seminar: Business Finance**

(4)

Prerequisite: FIN 500. Financial statements and cash flows, financial markets and net present value, risk and return, capital budgeting, capital structure, and dividend policy.

- **FIN 531 - Seminar: Financial Institutions**

(4)

Prerequisite: FIN 500. Role of financial institutions in U.S.; financial management of various types of financial institutions against a background of national income, national policies, and flow of funds.

- **FIN 533 - Seminar: International Finance**

(4)

Prerequisite: FIN 500. Institutions, instruments, and procedures used in financing exports and imports, international investments, and multinational business operations.

- **FIN 534 - Seminar: Portfolio Management**

(4)

Prerequisite: FIN 500 or 303. Portfolio theory, capital market equilibrium (capital asset pricing model and arbitrage pricing theory), asset allocation, capital allocation, fixed-income securities, options and futures, passive and active portfolio management.

- **FIN 535 - Seminar: Speculative Securities and Markets**

(4)

Prerequisite: FIN 500 or 303. Economics and pricing of options and futures contracts and their applications to portfolio management; how proliferation of speculative markets affects efficiency and stability of financial system.

- **FIN 598 - Graduate Directed Study**

(1)

Investigation of an approved project leading to written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Fire Protection Administration (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 350 - Fire Protection and the Community**

(4)

Relationship of fire service and fire protection needs to critical urban issues, affirmative action, public education, communication with minority groups, interdepartmental and intradepartmental relations.

- **TECH 351A - Fire Defense Planning**

(4)

Community fire defense needs, facilities, master plan development, federal assistance. Application of ISO Grading Schedule and Guide for Determining Fire Flow Requirements; impact of insurance. Field trips required.

- **TECH 351B - Fire Defense Planning**

(4)

Community fire defense needs, facilities, master plan development, federal assistance. Application of ISO Grading Schedule and Guide for Determining Fire Flow Requirements; impact of insurance. Field trips required.

- **TECH 352A - Fire Protection Aspects of Building Design**

(4)

Building construction including fire resistive materials, protective systems, testing of fire assemblies, heat and smoke detection devices, high-rise structures; plan checking. Field trips required.

- **TECH 352B - Fire Protection Aspects of Building Design**

(4)

Building construction including fire resistive materials, protective systems, testing of fire assemblies, heat and smoke detection devices, high-rise structures; plan checking. Field trips required.

- **TECH 353 - Fire Disaster Administration**

(4)

Fire disaster protection organization; disaster laws; establishment of central communications and field control centers; support groups, manpower, and equipment; overhaul and security; disaster and civil defense relationships.

- **TECH 355 - Fire Protection Laws**

(4)

Authority for fire department operations; pertinent federal, state, and local laws; fire department liability, member and citizen liability; fire department trial boards.

- **TECH 451 - Fire Prevention and Building Codes: Interpretation and Enforcement**

(4)

Prerequisite: TECH 352AB. Interpretation of building, fire prevention, and State Fire Marshal codes; review of building plans; enforcement procedures and techniques; case studies and problems in code enforcement.

- **TECH 452 - Fire Prevention Administration**

(4)

Prerequisite: TECH 451. Organization of Fire Prevention Bureau; laws and regulations, building and fire code administration; coordination

with governmental and other organizations; functions of Fire Prevention Bureau; planning and training.

- **TECH 453A - Fire Protection Systems Design**

(4)

Theories, principles, and types of fire protection systems; design and hydraulic calculations for sprinkler systems; review of fire protection systems plans.

- **TECH 453B - Fire Protection Systems Design**

(4)

Theories, principles, and types of fire protection systems; design and hydraulic calculations for sprinkler systems; review of fire protection systems plans.

- **TECH 455A - Fire Protection of Structural Members and Building Components**

(4)

Fire protection of structural members, building components, and materials; their reaction under tension, compression, and shear during fire exposure.

- **TECH 455B - Fire Protection of Structural Members and Building Components**

(4)

Fire protection of structural members, building components, and materials; their reaction under tension, compression, and shear during fire exposure.

Food Science and Technology (Undergraduate)

- **FST 320 - Food Chemistry**

(4)

Prerequisites: NTRS 210 and CHEM 353. Explores the structure and functional properties of food components and their chemical changes during food processing and utilization.

- **FST 323 - Food Analysis**

(4)

Prerequisite: FST 320. Explores composition and analysis of food components. Principles that help understand basic laboratory techniques on the function and interactions of chemical components in food and an introduction to instrumental analysis. Lecture 2 hours, laboratory 4 hours.

- **FST 325 - Food Microbiology**

(5)

Prerequisites: MICR 151. Microbial ecology of foods, important food borne pathogens and principles of use of microorganisms in fermentation.

- **FST 327 - Principles of Food Engineering I**

(3)

Prerequisites: PHYS 150, MATH 242. Principles of food engineering encompassing math concepts for food engineering, and units and dimensions, thermodynamics, material and energy balance, and fluid flow.

- **FST 328 - Principles of Food Engineering II**

(3)

Prerequisite: FST 327. Principles of food engineering encompassing heat transfer, refrigeration, psychrometrics, and mass transfer.

- **FST 332 - Food Law**

(3)

Prerequisites: NTRS 210 and MICR 151. An introduction to federal and state regulations that assure safety of food products in the market.

- **FST 421 - Sensory Evaluation of Food Products**

(4)

Prerequisites: PSY 150. The senses and their implications in sensory evaluation of food products. Techniques used to conduct sensory evaluation of food products.

- **FST 425 - Food Preservation Technologies**

(4)

Prerequisites FST 320, 325, 327. Industrial perspective of food preservation technologies, good manufacturing practices and standard operating procedures applied to canning, pasteurization, aseptic processing, smoking, irradiation, refrigeration, freezing, dehydration and concentration.

- **FST 429 - Food Packaging**

(4)

Prerequisite: FST 327. The basic principles of packing applied to foods. It covers the basic properties and applications of metal, glass, paper, and plastic food packaging.

- **FST 431 - Quality Assurance of Food Products**

(4)

Prerequisites: NTRS 210, CHEM 353 and MATH/ECON 109. Quality assurance of food production dealing with management issues and statistical quality control.

- **FST 444 - Food Safety Programs**

(4)

Prerequisites: NTRS 210 and MICR 151. Introduction to food safety issues in the food industry. Overviews of food safety programs focused on HACCP and ServSafe. It includes good manufacturing practices and pre-requisite programs in the food industry and food service facilities.

- **FST 446 - Food Product Development**

(4)

Prerequisites: NTRS 210, MICR 151 and CHEM 353. This course introduced the principles of new product development and review special market segments such as nutraceuticals, functional foods, biotechnological products and ethnic foods.

- **FST 454 - Special Topics in Food Science**

(1–4)

Prerequisites: Varies with Topic. Define a problem; identify potential causes and possible solutions based on independent research in food science and technology. May be repeated to a maximum of 16 units as subject matter changes.

- **FST 475 - Food Safety: Current Challenges and Trends**

(4)

Prerequisites: NTRS 210, MICR 151 and FST 444. Specific challenges of food safety in the changing food industry. Includes biosafety issues faced by globalization of food supplies, the laws and regulations governing food safety and public perception of food safety.

- **FST 479 - Professional Interactions and Writing Skills**
(also listed as NTRS 479)

(4)

Prerequisites: NTRS 315 or NTRS 250; PSY 150, COMM 150. Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Role of the food scientist as an educator on the health care team, with emphasis on the development of written and oral communication skills. Lecture 3 hours, activity 2 hours. Concurrent weekly professional colloquium required.

- **FST 495 - Field Work in Food Safety**

(4)

Prerequisites: 35 FST units of which at least 15 must be upper division and with School approval. Supervised field work experience utilizing professional preparation in field setting. Graded CR/NC.

French (Undergraduate)

All Upper Division courses except 461 and 471 are conducted in French.

- **FREN 100A - Elementary French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing French. Introduction to the customs, culture, and the institutions of the francophone people.

GE C4

- **FREN 100B - Elementary French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing French. Introduction to the customs, culture, and

the institutions of the francophone people.

GE C4

• **FREN 100C - Elementary French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing French. Introduction to the customs, culture, and the institutions of the francophone people.

GE C4

• **FREN 200A - Intermediate French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. May be taken out of sequence if necessary due to scheduling. Development of intermediate communicative skills in French: oral proficiency, listening comprehension, grammar review, vocabulary building, and reading and writing skills. Study of the cultures of francophone people and countries.

GE C4

• **FREN 200B - Intermediate French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. May be taken out of sequence if necessary due to scheduling. Development of intermediate communicative skills in French: oral proficiency, listening comprehension, grammar review, vocabulary building, and reading and writing skills. Study of the cultures of francophone people and countries.

GE C4

• **FREN 200C - Intermediate French**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. May be taken out of sequence if necessary due to scheduling. Development of intermediate communicative skills in French: oral proficiency, listening comprehension, grammar review, vocabulary building, and reading and writing skills. Study of the cultures of francophone people and countries.

GE C4

• **FREN 299 - Intermediate Proficiency**

(0)

Corequisite: ML 150. An assessment of students' oral and written proficiency based on the ACTFL scale. Students must demonstrate intermediate-mid proficiency in order to register for French classes above FREN 301. Graded CR/NC.

• **FREN 300A - Advanced Grammar**

(4)

Prerequisite: FREN 200B. Review of all difficult French grammatical structures; focused use of these structures in compositions. This course is taught online; NIS account required.

• **FREN 300B - Introduction to Literary Analysis**

(4)

Corequisites: FREN 299 and FREN 300A. Development of reading strategies for French literary works; introduction to literary genres; principles of literary analysis as applied to texts by French and Francophone writers; development of writing skills.

- **FREN 301 - Contemporary Spoken French**

(4)

Prerequisite: FREN 200C. Development of oral skills in all registers; analysis of spoken French and its differences with standard French; study of current French usage through contemporary texts and media.

- **FREN 305 - Phonetics**

(4)

Prerequisites: FREN 200ABC, 201. Production of French sounds such as assimilation, liaison, vowel length, rhythm, accent, intonation, etc. Laboratory practice in pronunciation.

- **FREN 310A - French Culture and Institutions**

(4)

Prerequisite: FREN 300B. Contributions of France to western world; origin and development of its political and social institutions, as well as evolution of its literature, thought, and art.

- **FREN 310B - French Culture and Institutions**

(4)

Prerequisite: FREN 300B. Contributions of France to western world; origin and development of its political and social institutions, as well as evolution of its literature, thought, and art.

- **FREN 401 - Cours de Style**

(4)

Prerequisite: FREN 300B. Writing and analysis of literary French.

- **FREN 403 - Topics in French Applied Linguistics**

(4)

Prerequisites: FREN 300B and ENGL 401. Topics in French linguistics: Historical linguistics; modern French morphology, syntax, and sociolinguistics; second language acquisition; contrastive analysis of French and English grammatical structures, in preparation for teaching. NIS account required.

- **FREN 410 - Introduction to French Prose and Dramatic Literature I**

(4)

Prerequisite: FREN 300B. Development of French prose and dramatic literature from beginnings to French Revolution: cultural influences, literary landmarks, and analysis of genre and style.

- **FREN 411 - Introduction to French Prose and Dramatic Literature II**

(4)

Prerequisite: FREN 300B. Development of French prose and dramatic literature from the French Revolution to the 20th century: cultural influences, literary landmarks, and analysis of genre and style.

• **FREN 412 - Masters of French Poetry: Beginnings to Symbolism**

(4)

Prerequisite: FREN 300B. French poetic evolution as seen in the principal poets from Villon to Mallarme.

• **FREN 413 - Panorama de la Francophonie**

(4)

Prerequisite: FREN 300B. Survey of Francophone literature and culture, including French-language literature of Canada, Belgium, the Antilles, the Maghreb, and Central Africa.

• **FREN 450 - Selected Topics in French Literary Prose**

(4)

Prerequisite: FREN 410 or 411. Selected masters of French literary prose and their influence on world letters and ideas. Focus on cultural significance and literary theory. May be repeated for credit as subject matter changes.

• **FREN 451 - Selected Topics in French Dramatic Literature**

(4)

Prerequisite: FREN 410 or 411. Selected masters of French dramatic literature and their influence on world letters and ideas. Focus on cultural significance and aesthetic theory. May be repeated to a maximum of 8 units for credit as subject matter changes.

• **FREN 454 - Special Topics in French**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest in French as announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit.

• **FREN 471 - The French Film**

(4)

Study of great traditions and personal styles of outstanding filmmakers. Critique and literary analysis of intellectual approach in French cinema. Conducted in English.

• **FREN 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: 3.0 grade point average in French, senior or graduate standing, adviser consent. Project selected in conference with instructor before registration; progress meetings held regularly and culminating in written reports. May be repeated to a maximum of 8 units for credit.

French (Graduate)

Classified graduate standing is required for admission to all 500 level courses.

• FREN 501 - Development of French Language

(4)

Prerequisites: FREN 305, 401; beginning Latin strongly recommended. Scientific analysis of written and spoken French from its inception through its current use in the French-speaking world.

• FREN 509 - Analytical and Interpretive Writing in French

(4)

Prerequisite: FREN 450 or 451. Original analysis and interpretation of literary or nonliterary texts as well as independent research resulting in a report; emphasis on scholarly writing skills.

• FREN 535 - Seminar: French Literary Prose since World War II

(4)

Prerequisite: FREN 411. Studies in outstanding French prose writing and literary movements since World War II.

• FREN 575 - Seminar: French Literature

(4)

Prerequisite: Undergraduate course(s) relevant to topic being studied. Intensive study of significant works of particular period, genre, or literary tendency from Middle Ages to present. May be repeated, as subject matter changes, to maximum of 12 units.

• FREN 596 - Comprehensive Examination

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• FREN 598 - Graduate Directed Study

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

Geography (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Unless otherwise stated, the prerequisite for all 400-level GEOG courses is GEOG 160 or 370.

• GEOG 155 - Cultural Geography

(4)

Studies of the sociocultural characteristics of contemporary societies within their manifested spatial structure. Focuses on similarities and differences of various cultures with respect to racial, ethnic, religious, linguistic, demographic, and organizational characteristics.

GE D ; Approved diversity course

- **GEOG 160 - Physical Geography**

(4)

Introduction to principles and processes affecting the nature and dynamical interactions of the physical world and its inhabitants. Emphasizes the atmosphere, hydrosphere, soils, and vegetation and their spatial relationships.

GE B3

- **GEOG 170 - Meteorology**

(4)

Course surveys the major atmospheric processes, with emphasis on weather phenomenon, severe storms, droughts, and flood producing events. Use of weather charts and satellite imagery in forecasting examined. Lecture 3 hours, Laboratory 3 hours. Some sections of the lecture may be taught online.

GE B2

- **GEOG 268 - Introduction to Geospatial Sciences**

(4)

Prerequisite: GEOG 282. An introduction to location reference systems, geographic data products, geospatial technologies, and their applications in locational analysis and spatial modeling.

- **GEOG 282 - Spatial Measurement and Elementary Statistics**

(4)

Prerequisites: GEOG 155, 160, MATH 091. Univariate descriptive statistics, geographic measurements and spatial descriptive statistics. Parametric inferential statistics: estimation and hypothesis testing. Introduction to bivariate statistics: simple correlation and simple regression. Emphasis on using spatial data.

- **GEOG 309 - Urban Environmental Pollution**
(also listed as HS 309)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Investigates the major sources and effects of land, water and air pollutants in cities of developed and developing countries. Best management practices and control methods will also be discussed.

GE Theme D

- **GEOG 310 - Urban Climatology**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. The course investigates urbanization effects on the immediate atmospheric environment. Students evaluate these effects through direct measurements and data analyses. Topics include architecture, urban planning and pollution.

GE Theme D

- **GEOG 312 - Global Climate Change and the Developing World**
(also listed as GEOL 312)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Investigates the causes and impacts of global climate change on developing countries, as well as mitigation schemes. Students explore current climate change and its impact on the poor, and they gather evidence from the past and formulate scenarios of the future.

GE Theme A

- **GEOG 333 - Environment and Development in the Third World**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. The physical environments of the Third World and associated problems of development.

GE Theme A

- **GEOG 340 - Environmental Geography I**

(4)

Prerequisite GEOG 155 and one of the following: GEOG 160, GEOL 150, and GEOL 155. This course will focus on the complex nature of environmental geography and how social, political, cultural, and economic forces have come to shape our interaction with and understanding of the environment.

- **GEOG 369 - Fundamentals of Geographic Information Systems**

(4)

This course introduces students to the elements and capabilities of a functioning GIS for solving spatial problems.

- **GEOG 370 - World Regions**

(4)

Major physical regions of world and their occupational development by humans.

- **GEOG 376 - Urban Spatial Process and Patterns**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block D. Critical examination of the spatial processes of urbanization and characteristics of cities.

GE Theme D

- **GEOG 395 - Geographic Methodology**

(4)

Prerequisite: GEOG 282. Survey of methodology in geographic research. The nature of scientific research; the scientific method; research design; geographic measurements and data acquisitions; techniques of analysis; legal and ethical issues of research.

- **GEOG 402 - Geomorphology**

(4)

Prerequisites: GEOG 268. Identification and interpretation of landforms. Local field trip.



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HELP

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Geography (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Unless otherwise stated, the prerequisite for all 400-level GEOG courses is GEOG 160 or 370.

• GEOG 403 - Environment and Food Customs

(4)

This course will examine the geographical distribution of various food cultures as well as the connections between those food cultures and the physical environment in which they have developed.

• GEOG 407 - Biogeography

(4)

Prerequisites: GEOG 160 and completion of GE Block B. Distributions and dynamics of individual plant and animal taxa and the communities and ecosystems in which they occur, in relation to natural and anthropogenic processes at different scales.

• GEOG 410 - Applied Climatology

(4)

Emphasizes effects of climate on physical, biological, and cultural environments; climatic change and variability and how society can cope most effectively with change.

• GEOG 415 - Perspectives on Environment

(4)

Environmental interactions in subsistence and urban-industrial societies; impact of human activities on environment: modification of vegetation, hydrology, and landforms, accelerated soil erosion, climatic change; environmental perception; awareness of and adjustment to natural hazards.

• GEOG 421 - United States

(4)

Identification, interpretation, and synthesis of regional phenomena within the U.S. characterizing its physical and cultural landscape.

• **GEOG 427 - Mexico and Central America**

(4)

Nature of the land and characteristics of human settlement features in Mexico and Central America.

• **GEOG 428 - South America**

(4)

Character of physical and cultural environment in countries of South America.

• **GEOG 430 - China**

(4)

Physical and economic regional geography of China and its inner-Asian frontiers, including study of its demography, industrial and agricultural development, transportation, and energy infrastructure.

• **GEOG 431 - California**

(4)

Physical environments of California and human settlement features, past and present.

• **GEOG 432 - Metropolitan Los Angeles**

(4)

Investigation of the physical and cultural geographic characteristics that have contributed to Los Angeles' dynamic urban growth and its dominance as the primate city within the region.

• **GEOG 440 - Environmental Geography II — Sustainable Urban Development**

(4)

Prerequisite GEOG 340. This course will focus on current theories and practices in sustainable urban development.

• **GEOG 442 - Population Geography**

(4)

Prerequisite: GEOG 155. Spatial analysis of demographic variables with emphasis on environment, social, and economic factors influencing population distribution and mobility; population growth in relation to resource utilization.

• **GEOG 446 - U.S. Ethnic Communities**

(4)

Spatial structure and organization of selected ethnic communities in the U.S. and their interrelationships with American composite cultural environment.

- **GEOG 448 - Medical Geography**

(4)

Prerequisites: GEOG 155, and completion of GE Block B. Landscape epidemiology; health related to developmental changes, biometeorology, and pollution; geographies of diseases in developed areas; disease diffusion; health care delivery systems worldwide; distribution, accessibility, and utilization of health care.

- **GEOG 451 - Historical Geography of North America**

(4)

Prerequisite: GEOG 155. Development of North America from earliest European contact through the present, emphasizing spatial process and patterns.

- **GEOG 453 - Locational Analysis**

(4)

Prerequisite: GEOG 155. Location and spatial distribution of economic activities: development and applicability of various locational models in geography; agricultural, industrial, central place, intracity, social gravity, and spatial interaction models.

- **GEOG 457 - Transportation Geography**

(4)

Prerequisite: GEOG 155. Modes of movement of people, products, and ideas; their impacts on spatial patterns and landscapes.

- **GEOG 458 - Urban Transportation**

(4)

Prerequisite GEOG 282 or a course in statistics. This course will focus on critical issues in urban transportation, including land use and transportation interaction, urban form and commuting patterns, transit planning, and sustainable urban transportation.

- **GEOG 463 - Geographic Information Systems (GIS) Applications in Urban Planning**

(4)

Prerequisite GEOG 369. Focuses on the application of Geographic Information Systems in urban planning and decision making.

- **GEOG 464 - Geographic Information Systems (GIS) Applications in Political Science
(also listed as POLS 464)**

(4)

Prerequisites: GEOG 282, POLS 281, or consent of instructor. Focuses on the application of Geographic Information Systems in politics and policy to see the effects of public decisions in areas such as political behavior, redistricting, and service delivery.

- **GEOG 465 - Geographic Information Systems (GIS) Applications in Environmental Studies**

(4)

Prerequisite: GEOG 369. This course focuses on the applications of Geographic Information Systems in environmental studies and resource management. Students will be introduced to spatial analysis and GIS modeling in these areas.

• **GEOG 466 - Remote Sensing**

(4)

Prerequisite: GEOG 268. Analysis of natural and cultural features of earth's environment using photographic, infrared, satellite and microwave imagery. Lecture 3 hours, laboratory 2 hours.

• **GEOG 468 - Digital Cartography**

(4)

Prerequisites: GEOG 268 and GEOG 369. This course provides hands-on training in GIS data creation, map design, and web map authoring.

• **GEOG 469 - Spatial Analysis and GIS Modeling**

(4)

Prerequisites: GEOG 468, 482. Analytical and modeling functions of geographic information systems, including buffer zone and overlay analysis, network analysis, terrain and hydrological modeling, and cost surface analysis. Lecture 3 hours, laboratory 2 hours.

• **GEOG 476 - Urban Geography**

(4)

Prerequisite: GEOG 155. In-depth spatial analysis of urban systems and internal structure of cities, and analytical investigation of functions and forms of representative urban areas.

• **GEOG 478 - Middle Eastern Cities**

(4)

Prerequisite: GEOG 155. This course analyzes the historical evolution of Middle Eastern cities, as manifested in their spatial structure, architecture, urban morphology and social geography.

• **GEOG 482 - Multivariate Statistics in Geography**

(4)

Prerequisites: GEOG 268, 282. Nonparametric statistics, parametric statistical inference: two-sample tests, analysis of variance (ANOVA), multiple regression, principal components and factor analysis, and discriminant analysis. Emphasis on using spatial data. Lecture 3 hours, laboratory 2 hours.

• **GEOG 485 - Field Geography**

(5)

Prerequisite: GEOG 268. Field identification and interpretation of natural and man-made features, and methods used therein. Lecture 2 hours, field work 6 hours. May be repeated once for credit if one enrollment is in program at off-campus field center.

• **GEOG 495 - Senior Thesis**

(4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR) and senior standing. Advanced principles of geographic writing and research culminating in a senior thesis.

• **GEOG 496 - Special Topics**

(1–4)

Prerequisites: As needed for specific topic. May be taken concurrently with GEOG 497. Specialized systematic and regional topics in geography as announced in Schedule of Classes. Lecture 1–4 hours. May be repeated as subject matter changes.

• **GEOG 497 - Special Topics**

(1–4)

Prerequisites: As needed for specific topic. May be taken concurrently with GEOG 496. Special topics of interest to students in geography as announced in Schedule of Classes. Activity 2–8 hours. May be repeated for credit as subject matter changes.

• **GEOG 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Instructor consent to act as sponsor; ability to do independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units as subject matter changes.

Geography (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

• **GEOG 510 - Seminar: Physical Geography**

(4)

Prerequisite: Instructor consent. Seminar on geography of the natural environment. Subjects offered include air pollution, biogeography, climatology/meteorology, environmental studies, geomorphology, and research advancements in physical geography. May be repeated as subject matter changes.

• **GEOG 520 - Seminar: Regional Geography**

(4)

Prerequisite: Instructor consent. Geography of selected regions of the world. Regions offered include California, Canada, Central America, China, Europe, Los Angeles, Middle East, South America, South Asia, and Southeast Asia. May be repeated as subject matter changes.

• **GEOG 530 - Seminar: Urban Social Systems**

(also listed as SOC 530)

(4)

Prerequisite: Instructor consent. Growth and nature of urban social systems in selected cities and metropolitan areas; theories of urban structure and problems; improving quality of urban life; comparisons of cities in various countries.

- **GEOG 540 - Seminar: Human Geography**

(4)

Prerequisite: Instructor consent. Seminar on geography of human activities. Subjects offered include cultural, economic, historical, medical, population, resource, settlement, transportation, and urban geography, as well as ethnic studies, regional analysis, and migration studies. May be repeated as subject matter changes.

- **GEOG 560 - Seminar: Methods and Techniques in Geography**

(4)

Prerequisite: Instructor consent. Seminar on geographic methods and techniques. Subjects offered include geographic information systems/science (GIS), remote sensing, mathematical modeling, qualitative research methods, locational analysis, and spatial statistics. May be repeated as subject matter changes.

- **GEOG 595 - Seminar: Geographic Thought**

(4)

Prerequisite: Instructor consent. History, objectives, and methodological and philosophical approaches of geography.

- **GEOG 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Master's Degree section of this chapter.

- **GEOG 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor. May be repeated to a maximum of 12 units for credit.

- **GEOG 599 - Thesis**

(1–6)

Prerequisites: Advancement to candidacy, approval of department, completion of course work in master's program, completion of foreign language or upper division statistical or computer skill requirement. May be repeated to maximum of 9 units. Graded CR/NC.

Geological Sciences (Undergraduate)

All 400-level courses may be applied towards master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: GEOL 400, 401, 402, 410, 430, 460AB, 497, 499

- **GEOL 150 - Earth Revealed +**

(4)

Introductory Geology: Origin and nature of earthquakes, volcanoes, plate tectonics, the seafloor, deserts, mountains, and beaches. Select either classroom or field trip laboratory. Lecture 3 hours, Laboratory 3 Hours. +There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

*C-ID GEOL 101

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved*

community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

GE B2

• **GEOL 155 - Oceanography +**

(4)

Introductory Oceanography: Origin of oceans; sea floor features; ocean sediments, life, and circulation; seawater properties; and coastal processes. Laboratory: One-day ocean cruise and one-day coastal trip. Lecture 3 hours, Laboratory 3 hours. +There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

GE B2

• **GEOL 158 - Natural Disasters**

(4)

Causes, characteristics, and case histories of natural disasters affecting civilization. Topics include earthquakes, volcanic eruptions, landslides, storms and floods, sea waves, meteor impacts, climate change, and mass extinctions. Lecture 4 hours

*C-ID GEOL 130

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE B3

• **GEOL 160 - Geology Field Experience**

(2)

Prerequisite: GEOL 150. Field trip-based course designed to introduce students to the many facets of California geology, including faults, volcanoes, earthquakes, mountain building and tectonics. Job and research opportunities will also be presented. Lecture 1 hour, laboratory 3 hours.

• **GEOL 203 - Introductory Petrology**

(2)

Prerequisite: GEOL 201. Elementary methods of rock and rock-forming mineral description, identification, and interpretation involving igneous, sedimentary and metamorphic rocks. Lecture 1 hour, laboratory 3 hours.

• **GEOL 220 - Environmental Geoscience**

(4)

Prerequisite: GEOL 150. Current environmental issues concerning natural resources, water and soil use, energy resources, alternative energy, air and water pollution. Environmental laws, reclamation, and the human impact on global climate change. Lecture 4 hours.

• **GEOL 252 - Historical Geology**

(4)

Prerequisites: GEOL 150, 155, or 158. Plate tectonic evolution of continents, oceans, and mountain systems and geologic history of Earth; introduction to stratigraphy and development of ancient life. Lecture 2 hours, laboratory 6 hours.

*C-ID GEOL 111

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-*

year institution to the community college or between the four-year institutions.

• **GEOL 301 - Mineralogy and Petrology**

(4)

Prerequisites: CHEM 101, MATH 104A, GEOL 150. Nature of crystalline material, crystal formation, mineral groups, physical properties and identification, crystallography, crystal symmetry, association of minerals with igneous, sedimentary and metamorphic environments, introduction to rock classification and identification. Lecture 2 hours, laboratory 6 hours.

• **GEOL 312 - Global Climate Change and the Developing World**
(also listed as GEOG 312)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Investigates the causes and impacts of global climate change on developing countries, as well as mitigation schemes. Students explore current climate change and its impact on the poor, and they gather evidence from the past and formulate scenarios of the future.

GE Theme A

• **GEOL 321 - Geology of Southern California**

(4)

Prerequisite: GEOL 150. Geologic provinces of southern California including geologic history, structure, rock types, and landforms. Field laboratory on weekends. Lecture 3 hours, laboratory 3 hours.

• **GEOL 351 - Environmental Geology of Developing Nations**

(4)

Prerequisites: Completion of Basic subjects (Block A) and one course from Block B. Geologic hazards and natural resources of developing nations. Topics include impact and mitigation of natural disasters and the role of natural resources in advancement of the human condition. Lecture 4 hours.

GE Theme A

• **GEOL 357 - Urban Geology**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Geologic conditions and processes (earthquakes, volcanoes, floods, landslides, coastal processes, etc.) as they affect urbanized areas around the world. Urban governmental planning and regulation for mitigation of geologic problems. Lecture 4 hours.

GE Theme D

• **GEOL 360 - Geological Mapping**

(4)

Prerequisite: GEOL 252. Prerequisite or corequisite: GEOL 301. Geological field methods; geological mapping on topographic base map; cross-sections from field data; geological interpretation and report writing. Lecture 2 hours; laboratory and field activities 6 hours.

• **GEOL 370 - Geochemistry**

(4)

Prerequisites: GEOL 201. Prerequisite or corequisite: MATH 206. Application of chemical and mathematical principles to studies of earth

systems including major and trace element distribution in rocks; isotopic tracers; radiometric dating; aqueous, organic, and environmental chemistry. Lecture 3 hours, laboratory 3 hours.

- **GEOL 372 - Computers in Geology**

(4)

Prerequisite: MATH 104B. Workstation operating system, electronic mail, applied word processing, spreadsheet tables and graphs, descriptive and inferential statistics including Chi Square analysis, tools and resources of the Internet, and computer-aided illustration. Lecture 2 hours, laboratory 6 hours.

- **GEOL 398 - Geology Cooperative Education**

(4)

Prerequisites: Courses appropriate to the work experience: approval by major department Cooperative Education coordinator. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded CR/NC. For more information see Cooperative Education

- **GEOL 400 - Optical Mineralogy**

(4)

Prerequisite: GEOL 201. Optical properties of crystals in polarized light and determination of minerals in thin sections with the petrographic microscope. Lecture 2 hours, laboratory 6 hours.

- **GEOL 401 - Igneous and Metamorphic Petrology**

(5)

Prerequisites: GEOL 360, 370, 400. Origin, occurrence, and characterization of igneous rocks and metamorphic rocks; their mineralogy, petrology, geochemistry, and plate tectonic setting. Lecture 3 hours, laboratory 6 hours.

- **GEOL 402 - Sedimentary Petrology**

(4)

Prerequisites: GEOL 370, 410. Analysis of sediments and sedimentary rocks involving their description, classification, and origin. Principles of sedimentation, recognition of environments of deposition. Lecture 2 hours, laboratory and field trips 6 hours.

- **GEOL 410 - Structural Geology**

(4)

Prerequisites: GEOL 360, MATH 206. Prerequisite or corequisite: PHYS 101. Theory of rock deformation, structural features of sedimentary, igneous, and metamorphic rocks; deformation of the Earth's crust, applied practice in laboratory methods dealing with geologic problems in three dimensions. Lecture 2 hours, laboratory 6 hours.

- **GEOL 411 - Geotectonic Development of California**

(4)

Prerequisites: GEOL 410, 430, Tectonic development of California in chronological order from Proterozoic to modern time. Topics include Proterozoic rifting, Antler, Sonoman, Nevadan, Sevier, and Laramide Orogenies, and tectonic origin of present day features.

- **GEOL 422 - Environmental & Forensic Geochemistry**

(4)

Prerequisite: GEOL 370. Use of geochemical tracers to investigate environmental problems; identifying sources of pollution; fate and transport of inorganic and organic contaminants via statistical and isotopic tracers; age-dating environmental release.

- **GEOL 424 - Low Temperature Geochemistry**

(4)

Prerequisite: GEOL 370, CHEM 103. Low Temperature minerals and their formation; diagenetic reactions; role of fluids in mineral paragenesis; fate and transport of inorganic and organic chemicals in the environment.

- **GEOL 426 - Astrogeology**

(4)

Prerequisite: GEOL 401. Terrestrial planets; meteorites, the moon, asteroids, comets; remote sensing of the Giant Planets; origin of the solar system.

- **GEOL 430 - Stratigraphy and Sedimentology**

(4)

Prerequisite: GEOL 402. Examination of modern depositional environments. Reconstruction of ancient depositional environments through application of structural, petrologic, stratigraphic, and paleontologic principles; report writing and field note taking; analysis of stratigraphic sections. Lecture 2 hours, laboratory and field activities 6 hours.

- **GEOL 433 - Quaternary Geology**

(4)

Prerequisite: GEOL 252. History of the Earth during and since Ice Ages; causes, mechanisms, and global, physical and biological effects of glaciation.

- **GEOL 434 - Volcanology**

(4)

Prerequisites: GEOL 360, 370. Tectonic setting; petrogenesis; interpretation of volcanic rocks.

- **GEOL 435 - Coastal Processes and Environments**

(4)

Prerequisite: GEOL 252 or consent of instructor. Interpretation and identification of the origin of coastal features and environments through analysis of fluvial, wave, tidal, sea level, tectonic, and urbanization processes. Lecture 3 hours and field activities 3 hours.

- **GEOL 459 - Geologic Maps and Reports**

(4)

Prerequisite: GEOL 252. Corequisite: GEOL 301. Format and construction of geologic maps and cross-sections; format and style of geologic

reports including text, figures, and references.

- **GEOL 460A - Summer Field Geology**

(3)

Prerequisites: GEOL 401, 410. Corequisite: GEOL 460B. First seven weeks of quarter: Three weeks in an off-campus field camp, investigating and mapping an area of sedimentary, metamorphic, and/or igneous rocks and geologic structure.

- **GEOL 460B - Report for Field Geology**

(1)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Corequisite: GEOL 460A. Preparation of geologic map, cross sections and report about entire area covered by class in GEOL 460A.

- **GEOL 481 - Engineering Geology**

(4)

Prerequisite: GEOL 460AB. Analysis of geologic factors affecting engineering projects; includes mechanical properties of rocks and soils, landslides, slope stability, subsidence, groundwater, erosion and silting, and earthquake effects.

- **GEOL 482 - Engineering Geology Laboratory**

(1)

Prerequisite or corequisite: GEOL 481. Methods of laboratory soil testing used in engineering geology, including compaction, grain size, shear strength, expansion, and Atterberg Limits tests. Laboratory 3 hours.

- **GEOL 483 - Photogeology**

(4)

Prerequisite: GEOL 360. Use of aerial photographs to interpret geological structures and lithologies shown on topographic maps; analysis of photos for engineering projects. Lecture 3 hours, laboratory 3 hours.

- **GEOL 484 - Hydrogeology**

(4)

Prerequisite: MATH 207. Occurrence, movement, quality of surface water and groundwater emphasizing geologic factors. Lecture 3 hours, laboratory 3 hours.

- **GEOL 485 - Groundwater Management and Models**

(4)

Prerequisite: GEOL 484. Mathematical models as tools of groundwater management; case histories of various levels of groundwater management; laboratory includes verification and prediction using finite difference models on computer systems. Lecture 3 hours, laboratory 3 hours including one field trip.

- **GEOL 487 - Watershed Analysis**

(4)

Prerequisite: GEOL 484 or instructor's consent. Includes basic surface hydrology, surface-groundwater interactions, hyporheic zone processes, wetlands for water treatment, agricultural and urban runoff, and urban corridor stream restoration. Lecture 3 hours, laboratory and field activities 3 hours.

• **GEOL 490 - Special Topics in Geology**

(1-4)

Prerequisites: As needed for a specific topic. Current topics of special interest in advanced geology and related fields as announced in Schedule of Classes. May be repeated to a maximum of 16 units as subject matter changes.

• **GEOL 491 - Special Laboratory Topics in Geology**

(1-3)

Prerequisite: As needed for specific topics. Laboratory activities for current topics of special interest in geology as announced in Schedule of Classes. May be repeated to a maximum of 12 units as subject matter changes.

• **GEOL 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Consent of an instructor to act as sponsor, ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to a maximum of 4 units.

Geological Sciences (Graduate)

All 400-level courses may be applied towards master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: GEOL 400, 401, 402, 403, 410, 430, 460AB, 497, 499.

Classified graduate standing is required for admission to all 500-level courses.

• **GEOL 525 - Sedimentary Processes, Environments, and Structures**

(4.5)

Prerequisites: GEOL 402, 430. Identification and analysis of sedimentary structures and hydrodynamically generated bedforms to determine sedimentary processes and environments of deposition.

• **GEOL 530 - Seminar: Structural Geology and Tectonics**

(4.5)

Prerequisite: GEOL 410 or upper division structural geology course. Critical review of selected topics concerning analysis, interpretation, and origin of geologic structures, mechanics of rock deformation and of large scale crustal deformation.

• **GEOL 531 - Tectonic Problems of Southern California**

(4.5)

Prerequisite: GEOL 410 or upper division structural geology course. Current topics in the geotectonic evolution of southern California.

• **GEOL 560 - Hydrogeology**

(4.5)

Prerequisite: GEOL 484. Advanced study of groundwater topics including aquifer testing, regional groundwater flow, water chemistry mass transport, and groundwater models. Lecture 3.5 hours, laboratory 3.0 hours.

• **GEOL 561 - Vadose Zone Hydrogeology**

(4.5)

Prerequisite: GEOL 484. Study of water movement and solute transport in the vadose (unsaturated) zone; including soil physics; infiltration theory; solute movement, noninteracting and interacting solutes; physical measurements; and field instrumentation. Lecture 3.5 hours, laboratory 3.0 hours.

• **GEOL 562 - Contaminant Hydrogeology**

(4.5)

Prerequisite: GEOL 484. Mass transport of contaminants in groundwater, principles of groundwater hydrology applied to organic and inorganic chemical migration, monitoring groundwater contamination, geochemical tracers of groundwater contamination, and groundwater remediation.

• **GEOL 563 - Water Quality Seminar**

(4.5)

Prerequisite: GEOL 484 or instructor's consent. Contemporary issues in water quality, including contaminant transport, pollutants in surface and ground water, natural attenuation, engineered bioremediation, monitoring wells, soil sampling procedures, and vadose zone monitoring. Seminar 4.5 hours.

• **GEOL 570 - Special Topics**

(1.0–4.5)

Prerequisite: Instructor consent. Discussion of selected topics in geology. May include up to 2 units of laboratory. May be repeated for credit as subject matter changes.

• **GEOL 581 - Seminar: Engineering Geology**

(4.5)

Prerequisite: GEOL 481 or senior engineering geology course. Advanced study relating geologic factors to engineering projects, with emphasis on slope stability, subsidence, engineering seismology, and construction problems related to engineering geology.

• **GEOL 584 - Paleoseismology**

(4.5)

Prerequisites: GEOL 481. Recognition of paleoseismic events in the geologic record, Quaternary slip-rates and coseismic deformation, modeling fault-scarp degradation, behavior of seismogenic faults, and seismic-hazard analysis.

• **GEOL 585 - Landslides, Avalanches, and Debris Flows**

(4.5)

Prerequisite: GEOL 481. Recognition, mechanics, and analysis of mass wasting features including landslides, rock avalanches, debris flows, rock falls, and lateral flows. Field mapping and computer stability analysis activities. Lecture 3.5 hours, laboratory 3.0 hours.

- **GEOL 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

- **GEOL 597 - Graduate Research**

(1.5–4.5)

Prerequisites: Instructor consent to act as sponsor, approval of project by student's graduate advisory committee. Independent research under guidance of faculty. Graded CR/NC.

- **GEOL 598 - Graduate Directed Study**

(1.5–4.5)

Prerequisite: Instructor consent to act as sponsor. Directed research on subjects selected in consultation with faculty. May be repeated to maximum of 6 units.

- **GEOL 599 - Thesis**

(1.5–4.5)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor. Presentation of independent research work in a written thesis, which is defended orally. Graded CR/NC.

German (Undergraduate)

- **GERM 100A - Elementary German**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing German. Introduction to the customs, culture, and institutions of the German people.

GE C4

Graphics Communication (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 130 - Introduction to Graphic Communications**

(3)

General technology course emphasizing the importance of graphic communications in our culture. History, theory, and laboratory application of varied graphic communications processes. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 231 - Imposition and Electronic Image Assembly**

(3)

Prerequisite: TECH 130 or consent of instructor based upon previous training experience. Applications of principles of imposition with emphasis on electronic image assembly techniques. This course requires service learning. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• TECH 232 - Electronic Prepress Systems

(3)

Prerequisite: TECH 130 or consent of instructor based upon previous experience. Theory and application of electronic prepress systems to solve problems of digital image generation of image carriers for production printing. This course requires service learning. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

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HELP

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Graphics Communication (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• TECH 233 - Presswork Procedures

(3)

Prerequisite: TECH 130 or consent of instructor based upon previous experience. Principles and procedures and practices of graphic reproduction utilizing ink and press technology with emphasis on the photo offset lithographic process. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• TECH 234 - Lithographic and Digital Reproduction Processes

(3)

Prerequisite: TECH 130 or consent of instructor based upon previous experience. Lithographic theory and its reproduction, image conversion, preparation of image carriers, image transfer, quality control, chemistry of lithography, printing inks and paper. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• TECH 330 - Graphic Communications Processes and Materials

(3)

Prerequisite: Junior standing in Graphic Communications, Industrial Technology, or consent of instructor based upon previous experience. Examination, application, and control of processes used in the graphic communications industry including prepress, press, postpress operations, major printing processes, digital imaging, and new media production. Nature and control of materials used in graphic communications reproduction processes with emphasis on image on substrate relationships. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• TECH 332 - Typography

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Intensive study and application of typographic principles with emphasis on their use in a production printing environment. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 333 - Presswork Procedures**

(3)

Prerequisite: TECH 130. Letterpress principles and procedures on platen and cylinder presses, make-ready, inks, automatic feeders. Lecture 1 ½ hours, laboratory 4 ½ hours.

- **TECH 430 - Computer Aided Graphic Communications Management**

(3)

Prerequisite: TECH 330 or consent of instructor. Concept, theory, and procedures of applications of computers to the solution of printing job planning, job tracking, data collection, purchase orders, inventory, production scheduling, system utilities, digital file preparation, and file maintenance with emphasis on problems found in the current graphic communications industry. This course requires service learning and cooperative learning. Lecture 1 1/2 hours, laboratory 4 ½ hours.

- **TECH 432 - Typographical Layout And Design**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Principles of design applied to graphic communication; selection of type, printing substrates and processes for reproduction; use of layouts and dummies to solve problems of graphic communications production. This course requires service learning. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 433A - Printing Estimating**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Elements of estimating all classes of printing and photo offset lithography including prepress operations, presswork, bindery, paper, and cost-finding problems.

- **TECH 433B - Computer Aided Printing Estimating and Job Costing**

(3)

Prerequisite: TECH 433A or consent of instructor based upon previous experience. Applications of computers to the solution of estimating problems discussed in TECH 433A with emphasis on problems found in the contemporary printing industry. Theory and application of principles for determining actual costs of specific operation to verify validity of estimates. Lecture 1 1/2 hours, Laboratory 4 1/2 hours.

- **TECH 434A - Graphic Communications Production Management I**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Organization and management of the graphic communications production, planning procedures and application of industrial management strategies.

- **TECH 434B - Graphic Communications Production Management II**

(3)

Prerequisite: TECH 434A or consent of instructor based upon previous experience. Application of graphic communications and management principles, strategies, and procedures in the operation of all levels of a simulated printing company. Lecture 1 1/2 hours, Laboratory 4 1/2 hours.

- **TECH 435 - Color Theory, Reproduction, and Management**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Color theory and its application to solving problems in the printing industry; emphasis on examination and evaluation of processes, proofing, reproduction, management, and quality control. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 436 - Electronic Publishing Technology and Management**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Theory and application of publishing systems; emphasis on information integration, system configuration, management, and producing digital output. This course requires Service Learning and Cooperative Learning. Lecture 11/2 hours, Laboratory 4 1/2 hours.

- **TECH 437 - Alternative Media Production**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Theory of media development processes; emphasis on multimedia production and management. Lecture 1 1/2 hours, Laboratory 4 1/2 hours.

- **TECH 438 - Image Capture, Processing, and Management**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Theory and procedures of digital image capture, processing and management; emphasis on total capture technology, image integration and producing open image files. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 439 - Digital Workflow Management**

(3)

Prerequisite: TECH 330 or consent of instructor based upon previous experience. Concept, theory, and procedures of digital workflow planning and management; emphasis on open digital file formats and pre-flighting. Lecture 1 1/2 hours, Laboratory 4 1/2 hours.

Health and Human Services (Undergraduate)

- **HHS 101 - Introduction to Higher Education: Living an Examined Life**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Graded ABC/NC

Freshman IHE and Block E

- **HHS 154L - PSelected Topics in Health and Human Services**

(1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in health and human services. May be repeated to a maximum of 12 units as subject matter changes.

- **HHS 154P - Selected Topics in Health and Human Services**

(1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in health and human services. May be repeated to a

maximum of 12 units as subject matter changes.

• **HHS 301 - Transition to Cal State L.A. for Health and Human Services Majors**

Exploration of skills and resources that will help the transfer student attain degree objectives. Meets university requirements for an introduction to higher education course for transfer students. Graded ABC/NC. NIS Account required.

• **HHS 310 - Historical and Social Context of Disability**

(4)

Prerequisites: PSY 150, PSY 160, SOC 201. Exploring the scope of disability from historical and social contexts to establish a framework from which to understand perspectives of disabling conditions and delivery systems of support services.

• **HHS 311 - Clinical and Community Services for Individuals with Neurodevelopmental Disabilities**

(4)

Prerequisites: Completion of the Required Core and Foundations of Program Delivery, Management and Advocacy courses for the Minor in Developmental Disabilities, or consent of instructor, submission of Certificate of Clearance to course instructor, submission of paid Student Liability verification to course instructor, current TB Test verification (if required). Exposure to professionals and careers in maternal child health and neurodevelopmental disabilities. Issues and trends in health care, education, disability and related services for those with neurodevelopmental and related disabilities.

• **HHS 312 - Internship in Developmental Disabilities**

(4)

Prerequisites: Completion of the Required Core and Foundations of Program Delivery, Management and Advocacy courses for the Minor in Developmental Disabilities, HHS 311 or consent of instructor, submission of Certificate of Clearance to course instructor, agency/organization acceptance, submission of paid Student Liability verification to course instructor, current TB Test verification (if required by placement site). Supervised experience utilizing professional preparation in a field setting. Graded CR/NC. If students receive a "NC" they may repeat the entire course only once.

• **HHS 357 - Victimology in Child Abuse and Family Violence
(also listed as COMD 357)**

(4)

Prerequisite: Upper division standing. This course examines victimization's relationship to crime, with emphasis on child abuse and family violence. It will explore issues in the victim's rights movement and types of victimization. Special attention will be given to interventions and preventing secondary trauma.

• **HHS 395 - Community Service in Health and Human Services**

(1-4)

Prerequisites: Approval of a faculty sponsor and acceptance by an appropriate agency. Participation in school, clinic, civic or other community service work in health and human services. May be repeated to maximum of eight units. Graded CR/NC.

• **HHS 400 - Statistics in Health and Human Services**

(4)

Prerequisites: Upper division standing and MATH 100, or MATH 102, or ECON/MATH 109 or MATH 110 or MATH 206. Basic statistical concepts, as applied to research in Health and Human Services; practical application of statistics using computer based data analysis.

• **HHS 495 - Field Work in Health and Human Services**

(1–4)

Prerequisite: Admission to a Health and Human Services credit certificate program. Work with community service organizations; placement arranged by appropriate certificate program coordinator. May be repeated to maximum of 8 units. Graded CR/NC.

Health and Human Services (Graduate)

• **HHS 595 - Field Practicum in Health and Human Services**

(4)

Prerequisites: Graduate status and approval of an appropriate HHS program adviser. Supervised field experience in health and human service agencies. May be repeated for a maximum of 8 units. Graded CR/NC.

Higher Education (Doctoral)

• **EDFN 603 - Introduction to Doctoral Research**

(2*)

Prerequisite: Admission to doctoral program. Orientation for the Ed.D. program in Educational Leadership; expectations, commitments and the practice of inquiry in doctoral cultures; accessing technology and library resources, working with research faculty and community partners. Graded ABCDF or Credit/No Credit.

*Semester units

• **EDFN 605 - Laboratories of Practice**

(2*)

Prerequisite: Admission to doctoral program and EDFN 603. Faculty-supervised field research practicum; faculty and student collaborative research projects, mentoring and peer support; reinforces and models various research preparation activities leading up to and through students' dissertation research projects. Graded ABCDF or C/NC. Students enroll in the appropriate field research lab as follows:

605C Community Research Lab

Practicum with community partners on the issues and research needs of local educational organizations. Must be repeated for credit two times.

605D Dissertation Research Lab

Practicum with faculty advisor and student peers to monitor status of field work/data collection, ongoing review of emerging findings and analysis of findings. Prerequisites: EDFN 605F, EDFN 605C. Student must be advanced to candidacy. Repeated three times for credit. Must be taken concurrently with EDAD 699.

605E Extended Research Lab

Continuing practicum with faculty advisor and student peers to finalize dissertation research project. Prerequisite: EDFN 605D. May be repeated for credit eight times.

605F Faculty Research Lab

Practicum with faculty advisor includes elements of proposing and conducting research, small group collaborative research projects, faculty and student examination of research process. May be repeated for credit until advancement to candidacy.

*Semester units

- **EDFN 605C - Community Research Lab**

(2*)

Practicum with community partners on the issues and research needs of local educational organizations. Must be repeated for credit two times.

**Semester Units*

- **EDFN 605D - Dissertation Research Lab**

(2*)

Practicum with faculty advisor and student peers to monitor status of field work/data collection, ongoing review of emerging findings and analysis of findings. Prerequisites: EDFN 605F, EDFN 605C. Student must be advanced to candidacy. Repeated three times for credit. Must be taken concurrently with EDAD 699.

**Semester Units*

- **EDFN 605E - Extended Research Lab**

(2*)

Continuing practicum with faculty advisor and student peers to finalize dissertation research project. Prerequisite: EDFN 605D. May be repeated for credit eight times.

**Semester Units*

- **EDFN 605F - Faculty Research Lab**

(2*)

Practicum with faculty advisor includes elements of proposing and conducting research, small group collaborative research projects. Faculty and student examination of research process. May be repeated for credit until advancement to candidacy.

**Semester Units*

- **EDHI 610 - Research, Issues, and Practices in College and University Teaching**

(4)

Prerequisite: Post-master's degree standing. Current research, issues, and practices in college and university teaching; instructional planning and preparation; student and program evaluation; non-instructional responsibilities of faculty.

- **EDHI 611 - Seminar: Supervision in College and University Teaching**

(4)

Prerequisite: Post-master's degree standing. Review of research and practices in higher education supervision of students; discussion of college/university student field and laboratory teaching assignments and evaluation.

History (Undergraduate)

Upper division standing is prerequisite to all 300 and 400-level history courses, unless otherwise noted.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• HIST 110A - World Civilization I

(4)

Comparative examination of world civilizations from 4500 BCE to 500 CE.

*C-ID HIST 170

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE D

• HIST 110B - World Civilization II

(4)

Comparative examination of world civilizations from 500 to 1700 CE.

*C-ID HIST 170 and HIST 180

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE D

• HIST 110C - World Civilization III

(4)

Comparative examination of world civilizations from 1700 CE to the present.

*C-ID HIST 180

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE D

• HIST 150 - Asian-American History

(4)

Survey of the Asian experience in America from 1850 to the present. Emphasis on the historical experience of Chinese, Japanese, Filipinos, Korean, other Asian, and Pacific Islander immigrant groups. Service learning option.

GE D ; Approved diversity course

• HIST 160 - History of Asia (also listed as AAAS160)

(4)

History of Asia with an emphasis on East Asia.

• HIST 202A - United States Civilization

(4)

Political, economic, social and cultural development of U.S. from earliest settlement through civil war.

*C-ID HIST 130

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE AM

• HIST 202B - United States Civilization

(4)

Political, economic, social, and cultural development of U.S. from civil war to the present.

*C-ID HIST 140

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE AM

• HIST 300 - Early Field Experience in History-Social Science Education

(4)

Early field experiences in History-Social Science education in 7th-12th grade schools. Activities conducted in the course correlate with content from the California Subject Matter Standards in History-Social Science.

• HIST 311 - Classical Civilization and the Modern World

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. The Classical Tradition and its legacy. Origin of the Classical Tradition, its social, political, and cultural manifestations, significance in the contemporary modern world.

GE Theme I ; Approved diversity course

• HIST 320 - Mesoamerican Civilization

(also listed as ANTH/ART/CHS/LAS 320)

(4)

This is an interdisciplinary course that critically examines Mesoamerica as a civilization, with an emphasis on art, archaeology, literature, and cultural history.

• HIST 351 - Beyond Conflict, Violence, and War

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Nature, functions, and interrelationship of conflict, violence, and war; strategies of conflict resolution and peace. Examined in a global setting through theory and case studies.

GE Theme B

• **HIST 352 - Civil Rights in the United States**

(4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block D. The origins, development, achievements, and legacy of the civil rights movement are treated in this course. Consideration is given to social, intellectual, economic, and political aspects affecting the entire nation.

GE Theme H ; Approved diversity course

• **HIST 356 - History of Emotions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Historical changes in emotional expression, meaning, and sensibilities, as constructed by gender, ethnicity, race, class, nationality, and religion.

GE Theme E ; Approved diversity course

• **HIST 357 - Gender in History**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Relationships between historical conceptions of gender (both womanhood and manhood) and race, ethnicity, class, religious, sexual identity, and nationality.

GE Theme C ; Approved diversity course

• **HIST 360 - Revolution and Society in Developing Countries**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Comparative and historical examinations of the origins and outcomes of revolution in developing countries.

GE Theme A

• **HIST 380 - Ancient and Modern Science**

(also listed as PHIL 380 and CHEM 380N)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block B. Systematic analysis of ancient scientific thought as science and its relationship to modern science.

GE Theme I

• **HIST 383 - Rise of Urban America**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Development of the American city in a global context from mid-nineteenth century to present. Examines urban growth, structure of urban institutions, and the impact of industrialism upon metropolitan society.

GE Theme D

• **HIST 388 - Historiography**

(4)

Prerequisites: 12 units of history course work and satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). History of historical thought from ancient to contemporary historians. Special emphasis on modern historiography. Practical experience writing historiographical essays.

• **HIST 390 - Historical Research and Writing**

(4)

Prerequisite: HIST 388. Introduction to historical research and writing; ideas, methods, and practical experience in investigating historical problems

• **HIST 401 - History of Globalization: Themes and Continuities**

(4)

Analysis of the economic, political, and cultural origins of globalization, and of the historical precedents and parallels for contemporary manifestations and consequences of the phenomenon.

• **HIST 402 - Religion and Society in Medieval Europe**
(also listed as RELS 402)

(4)

History of European religious beliefs and practices from the 3rd to the 15th centuries, emphasizing the diversity within medieval Christianity.

• **HIST 410 - Ancient Near East: 4000–323 B.C.**

(4)

Extensive study of earliest civilizations—Egyptian, Mesopotamian, Syrian, Persian, and Hebrew—and their historical legacy to Western world.

• **HIST 411 - History of Ancient Greece**

(4)

Political and cultural study of Ancient Greece from Minoan- Mycenaean period to end of 5th century.

• **HIST 412A - Early Rome, The Republic**

(4)

Internal and external development of the Roman republic from 8th Century B.C. to the death of Julius Caesar, 44 B.C.

• **HIST 412B - The Roman Empire**

(4)

Roman history from the death of Julius Caesar, 44 B.C., to the fall of the city, 410 A.D.

• **HIST 413 - Greek History: The Alexandrian Age**

(4)

Political, social, and religious developments from conquests of Alexander to rule of Islam; a history of Hellenistic, Roman, and early Byzantine rule in Near East.

- **HIST 414A - Pre-colonial Sub-Saharan Africa**

(4)

African continent south of the Sahara, earliest times to latter half of 18th century.

- **HIST 414B - Modern Sub-Saharan Africa**

(4)

Partition of Africa in 19th century, systems of European administration, reaction to colonial rule, birth of nationalism; social, economic, and political changes to 1945.

- **HIST 415 - Contemporary Sub-Saharan Africa**

(4)

Post-World War II independence revolutions in black Africa; resistance to change in southern Africa; contemporary political, social, and economic problems of Africa south of the Sahara.

- **HIST 418 - History of Islamic Central Asia**
(also listed as AAAS 418)

(4)

History in global context of the region encompassing Afghanistan, Kazakhstan, Kyrgyzstan, Tajikstan, Turkmenstan, and Uzbekistan, from the seventh century to the present, with emphasis on common religious and cultural trends.

- **HIST 419 - Classical Age of Islamic Civilization, 600–1258**

(4)

Rise of Islam, the Caliphate, the Crusades, the Turkish and Mongol invasions.

- **HIST 420 - The Islamic Middle East: 1258-1919**

(4)

Post-Mongol near east; Mamluk Egypt; Il-Khani, Timuri, Safavi and Qajar Iran; rise and fall of the Ottoman Empire; nationalism, revolution and European imperialism; emergence of modernity and modern nation-states.

- **HIST 421 - The Early Middle Ages**

(4)

Europe from the 3RD to the 10TH centuries: Political, social, economic, religious and cultural developments.

- **HIST 422 - The Later Middle Ages**

(4)

Europe from the 10TH to the 15TH centuries: Political, social, economic, religious and cultural developments.

HIST 423 - Renaissance and Reformation

(4)

Changes that shaped the course of early modern Europe to 1600, with emphasis on nature of period's leading phenomena, the Renaissance and the Reformation.

• HIST 426 - French Revolution and Napoleon

(4)

History of Europe during period of French Revolution and Napoleon.

• HIST 429 - Europe: 1914 to Present

(4)

Political, economic, cultural, and diplomatic history of Europe, World War I to present.

• HIST 430 - Europe: 1815–1914

(4)

European nationalism, industrial growth, imperialism, and the politics of power.

• HIST 431 - History of Modern Germany

(4)

History of modern Germany, with emphasis upon 20th century.

• HIST 439 - Intellectual History of Europe

(4)

Thought, belief, and opinion in Europe, with emphasis on principal thinkers and ideas as they relate to contemporaneous historical values from the Enlightenment to present.

• HIST 443 - The British Empire

(4)

Political and economic development of British Empire since late 18th century, with major consideration to expansion of colonial empire and evolution of modern empire commonwealth.

• HIST 446 - Imperial Russia: 1801–1917

(4)

History of Russia from accession of Alexander I to end of Romanov dynasty in 1917.

• HIST 447 - The Soviet Union

(4)
Background and history of revolutions of 1917 and subsequent historical development of Soviet Union.

• **HIST 450A - Research Capstone: Special Studies in Public History**

(4)
Prerequisite: HIST 390. A theme or episode in history examined thoroughly using the theories and methods of public history, oral history, community engagement and/or service learning. May be repeated up to 8 units.

• **HIST 450B - Research Capstone: Special Studies in History**

(4)
Prerequisite: HIST 390. Different theme or episode in history examined thoroughly each quarter in the manner of an undergraduate seminar. Individual readings, written and oral reports, and discussion. May be repeated up to 8 units.

• **HIST 451 - Special Lectures in History**

(2-4)
Lectures on special historical topics not regularly given by department. May be repeated for credit as topic changes.

• **HIST 455 - American Religious History**
(also listed as RELS 455)

(4)
Principal religious figures, groups, issues, and movements in U.S. history, with an emphasis on their place in the development of American culture.

• **HIST 459 - Sexuality in the Americas**

(4)
A social and cultural history. Study of the construction of sexual desires, attitudes and behaviors in the Americas from pre-conquest times to the present.

• **HIST 460 - The Chicano Movement**
(also listed as CHS 460)

(4)
Prerequisite: Upper-division standing. Examines the Chicano Movement of the 1960s and 1970s from an interdisciplinary perspective. Topics include: grassroots, student, and youth activism; antiwar movement; La Raza Unida Party; Chicana feminism, and the Chicano cultural renaissance.

• **HIST 461 - Latin America: Colonial Period**

(4)
Prehistory of the Americas south of the U.S.; European background, period of conquest, and colonial development to time of wars for independence.

• **HIST 462 - Latin America: 1810–1914**

(4)

Struggle for independence and social, political, and economic development of Latin American nations during 19th and early 20th centuries.

• **HIST 463 - Latin America: 1914 to Present**

(4)

Social, political, and economic development of Latin American nations since beginning of World War I.

• **HIST 464 - Central America Since Independence**

(4)

Political, social, economic, and cultural developments in Central America from independence to the present.

• **HIST 465 - Brazil**

(4)

Brazilian history from Portuguese occupation of eastern South America through colonial period, independent empire, and the republic to present time.

• **HIST 466A - Colonial Mexico**

(also listed as CHS 466A)

(4)

Social, political, economic, and cultural history of Mexico from pre-Columbian times to 1810.

• **HIST 466B - Building the Mexican Nation**

(also listed as CHS 466B)

(4)

Social, political, economic, and cultural history of Mexico 1810 to 1910.

• **HIST 466C - The Mexican Revolution and its Legacy**

(also listed as CHS 466C)

(4)

Social, political, economic, and cultural history of Mexico from 1910 to the present.

• **HIST 467 - Modern Mexico and the Chicano People**

(also listed as CHS 467)

(4)

Prerequisite: CHS 111. Recommended: CHS/HIST 466C. History of modern Mexico and its impact upon the Chicano people from separation from Mexico in 1848 to the present.

• **HIST 469 - Indigenous Peoples of Mexico, 1325-1910**

(4)

Political, social, economic, and cultural history of indigenous peoples from all areas of colonial and post-colonial Mexico, with a focus on Nahua (Aztec) and Mayan histories.

ries.

• **HIST 470 - The Colonial Heritage: The United States, 1607–1763**

(4)

Transfer of Old World institutions to British North America. Development of colonial society to end of French and Indian War.

• **HIST 471 - Era of Revolution: The United States, 1763–1815**

(4)

Causes and nature of American Revolution and development of the new nation through end of War of 1812.

• **HIST 473 - The United States, 1877-1918**

(4)

Industrialism and urbanization, international expansion, the Progressive Era and coming of World War I.

• **HIST 474 - The United States, 1918–1952**

(4)

The 1920's, Depression and New Deal, World War II, and the origins of the Cold War.

• **HIST 475 - The United States, 1952 to Present**

(4)

Domestic changes and issues, and international relations of recent times.

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HELP

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History (Undergraduate)

Upper division standing is prerequisite to all 300 and 400-level history courses, unless otherwise noted.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• HIST 476 - Economic History of United States

(4)

American economic development, industrialization, national legislation in industry and commerce.

• HIST 477 - United States Social History

(4)

The social structure; social relations of American individuals, families, and groups; colonial period to the present.

• HIST 478 - History of United States International Relations

(4)

International relations of the US with emphasis on the 20th century.

• HIST 479 - Constitutional History of United States

(4)

U.S. Constitution and American constitutionalism from colonial times to present.

• HIST 480 - Ethnicity and Immigration in American History

(4)

Role of national, racial, and religious minority groups, and of immigration, in American history.

• **HIST 481 - Special Topics in the U.S. West**

(4)

Special topics lectures about history of the West; e.g., the Westward Movement, the urban West, Southwestern history, and women in the West. May be repeated for credit as topic changes.

• **HIST 482A - American Popular Culture to 1900**

(4)

Prerequisite: Upper division standing. Identity, commercial culture and representations of evil in American popular culture to 1900.

• **HIST 482B - American Popular Culture from 1900**

(4)

Prerequisite: Upper division standing. Identity, commercial culture, representations of evil in American popular culture from 1900.

• **HIST 483 - Poverty and Anti-Poverty in American History**

(4)

Prerequisites: Upper division standing. The history and politics of poverty in America; anti-poverty strategies of the state, religious organizations, labor unions, grass-roots organizations, and the poor themselves. Four hours of lecture/discussion; service learning option.

• **HIST 484 - Civil War and Reconstruction**

(4)

Forces that split the Union; slavery, war, and the position of blacks; Reconstruction and its failures.

• **HIST 485 - U.S. Women to 1877**

(4)

Social, intellectual, economic, and political experiences of U.S. women from prequest to 1877.

• **HIST 486 - U.S. Women, 1877 to the Present**

(4)

Social, intellectual, economic, and political experiences of U.S. women, 1877 to present.

• **HIST 487 - History of U.S. Work and Working People**

(4)

Transformation of work and social and political relations of workers in the U.S. from 1600 to the present.

• **HIST 488 - California**

(4)

The complexities and diversity of California history from the Paleo-Indian past to the post-industrial present, examined from a national as well as global context.

• **HIST 489 - Los Angeles**

(4)

Development of Los Angeles and its metropolitan areas from pueblo times to present.

• **HIST 492 - Nationalism, Revolution, and War in Middle East, 1919–Present**

(4)

Rise of modern independent states in Middle East; survey of political, social, and economic developments in Middle Eastern states, with particular emphasis on attempts to create stable democratic regimes.

• **HIST 494A - Traditional China**

(4)

Chinese civilization from earliest times to 1500.

• **HIST 494B - Modern China**

(4)

Social, political, and economic development of mainland China from 1500 to 1949.

• **HIST 494C - People's Republic of China**

(4)

Political, economic, social, and foreign relations issues of Communist China since 1949.

• **HIST 495B - Modern Japan**

(4)

Social, political, and economic development of Japan since 1868.

• **HIST 497 - Editing and Publishing Perspectives**

(4)

Prerequisite: Consent of instructor. Techniques and practice in editing and producing a scholarly journal of research and review. May be repeated to a maximum of 8 units.

• **HIST 498 - Issues in Teaching History-Social Science**

(4)

Prerequisites: HIST 388 and HIST 390, or LBS 301 and LBS 360. Explores issues and concepts involved in teaching History-Social Science in California public schools.

• HIST 499 - Undergraduate Directed Study

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated to maximum of 8 units as topic changes.

History (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

• HIST 501 - Introduction to Graduate Study in History

(4)

Prerequisite: HIST 388 or equivalent. Introduction to theoretical and historiographical issues relevant to graduate study in history.

• HIST 519 - Seminar: Ancient History

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in Greek or Roman history. May be repeated for credit.

• HIST 520 - Seminar: History of Middle Ages

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in the history of the Middle Ages. May be repeated for credit.

• HIST 522 - Seminar: Middle Eastern History

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in Middle Eastern history. May be repeated for credit.

• HIST 532 - Seminar: Early Modern European History

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in early modern European history. May be repeated for credit.

• HIST 533 - Seminar: Recent European History

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in recent European history. May be repeated for credit.

- **HIST 542 - Seminar: Russian History**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in Russian history. May be repeated for credit.

- **HIST 550 - Seminar: Special Studies**

(4)

Prerequisite: HIST 501 or equivalent. Topics of special interest that transcend cultural and chronological lines, as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

- **HIST 561 - Seminar: History of Mexico**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in Mexican history. May be repeated for credit.

- **HIST 562 - Seminar: Latin American History**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in Latin American history. May be repeated for credit.

- **HIST 571 - Seminar: Early History of U.S.**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in the early history of the United States. May be repeated for credit.

- **HIST 575 - Seminar: Recent History of U.S.**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in the recent history of the United States. May be repeated for credit.

- **HIST 577 - Seminar: American Social and Intellectual History**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in American social and intellectual history. May be repeated for credit.

- **HIST 581 - Seminar: History of the U.S. West**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in history of the U.S. West. May be repeated for credit.

• **HIST 591 - Seminar: Recent Asian History**

(4)

Prerequisite: HIST 501 or equivalent. Readings, discussion, and paper on topics in recent Asian history. May be repeated for credit.

• **HIST 595 - Seminar in Historical Research and Writing**

(4)

Prerequisite: HIST 501 or equivalent. Seminar in historical research methods and writing, culminating in a written research project.

• **HIST 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **HIST 598 - Graduate Directed Study**

(1–4)

Prerequisite: HIST 501 and instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

• **HIST 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, HIST 501, 595, instructor consent to act as thesis director, and departmental approval of topic prior to registration. Independent research resulting in a thesis. Must be repeated to total of 4 units. Graded CR/NC.

Honors (Undergraduate)

• **HNRS 101 - Introduction to Academic Inquiry and the Honors College**

(4)

Explores ways of knowing across the disciplines; introduces students to Honors College learning goals; examines strategies for undergraduate success. Graded ABC/NC

IHE and Block E (GE)

• **HNRS 110 - Reading Los Angeles: Communication in the City of Angels**

(4)

This course explores oral communication through study and experience in analysis, synthesis, and presentation of discourse in a public speaking forum, focusing on arguments in the global metropolis.

GE A2

• **HNRS 120 - Reading Los Angeles: Expressive Cultures in a Global City**

(4)

Explores cultural expression and creativity in globalized urban contexts. Interdisciplinary exploration of artistic and creative expression (literature, art, theater, dance, film, and other cultural forms) in Los Angeles, and other global cities.

GE C5

• **HNRS 130 - Reading Los Angeles: Community and Structure in the Metropolis**

(4)

Strategies for understanding the social, political, economic, and cultural structures and processes that shape the modern metropolis.

GE D

• **HNRS 201 - Angelenos and Air Quality: A Chemist's Perspective**

(4)

Prerequisites: HNRS 101 or completion of Block A, and GPA of 3.3 or higher. An intensive introductory course in physical science emphasizing how scientific inquiry is used to explore the effects of human activities on Los Angeles air quality. Lecture 3 hours, laboratory 3 hours. Curriculum is integrated with HNRS 202.

GE B2

• **HNRS 202 - Angelenos and Air Quality Part II: A Life Scientist's Perspective**

(4)

Prerequisites: HNRS 101 or completion of Block A, and GPA of 3.3 or higher. Nature, history, methods, and applications of the discipline of biological sciences in relation to air pollution and human respiratory health. Emphasis on current events, scientific investigation, data analysis and communication. Lecture 3 hours, laboratory 3 hours.

GE B1

• **HNRS 220 - Sustainability, Place and Value: Social Innovation and Global Entrepreneurship**

(4)

Prerequisites: HNRS 101 or completion of Block A, and GPA of 3.3 or higher. This course focuses on the practice and implementation of entrepreneurship and innovation in providing creative solutions to social, political and ecological issues, locally, nationally and internationally. Lecture 3 units, laboratory (field work) 1 unit.

GE D

• **HNRS 310 - Human Rights and Literature**

(4)

Prerequisite: Upper division Honors College standing. Examination of how literature contributes to the conceptualization of human rights; discussing the ethics of storytelling in relation to global human rights issues, analyzing formal and cultural distinctions across a variety of genres.

APPROVED DIVERSITY COURSE

GE HONORS THEME (Humanities) Upper Division HONORS

• **HNRS 320 - Global Citizenship: Voices and Contexts**

(4)

Prerequisite: Upper division Honors College standing. Analysis of globalization's historical roots and political, economic, and cultural consequences, comparing novelistic, personal, and social-scientific perspectives; highlights dislocations, conflicts, opportunities, and transformations resulting from global migrations.

APPROVED DIVERSITY COURSE

Upper Division HONORS THEME (Social Sciences)

• **HNRS 330 - Global Climate Change: The Science and Responsible Societal Response**

(4)

Prerequisite: Upper division Honors College standing. Global climate change and its impact on society. Investigation of environmental changes and the role of human activities on these changes; discussion of societal responsibilities and alternative solutions.

Upper Division HONORS THEME (Natural Sciences and Math Requirement.)

• **HNRS 331 - Global Climate Change: Scientific Evidence and the Biological Environment
Global Climate Change**

(4)

This course introduces scientific evidence to the causes of global change and the impact of global change specific biological systems. Topics such as evidence-based policy decisions and sustainability will be considered.

GE Theme J

• **HNRS 495 - Senior Thesis Prospectus**

(2)

Prerequisites: satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), and senior standing in the Honors College; minimum 3.3. GPA. Introduction to advanced research methods, writing the thesis prospectus, conducting a literature review, and designing a research plan.

• **HNRS 496 - Senior Thesis Project**

(4)

Prerequisites: satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), and senior standing in the Honors College; minimum 3.3. GPA. Introduction to advanced research methods, writing the thesis prospectus, conducting a literature review, and designing a research plan. Advanced research or creative project connected with one or more of the Honors College learning goals.

• **HNRS 497 - The Honors Institute**

(2)

Prerequisites: Senior standing in the Honors College. Variable topic focused on interdisciplinary themes connected with the learning goals of the Honors College. Includes presentation of undergraduate research and senior projects and theses.

Information Systems (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400- level CIS courses.

• **CIS 100 - Business Computer Systems**

(4)

Computer system fundamentals; computer hardware and software concepts; introduction to microcomputer software.

C-ID BUS 140 (same as ITIS 120)

The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

- **CIS 283 - Introduction to Application Programming with Java**

(4)

Prerequisite: CIS 100. Introduction to business application programming: concepts and techniques of structured and object-oriented programming including data representation, input-output, calculations, control structures, sorting, and classes.

- **CIS 301 - Management Information Systems**

(4)

Prerequisite: CIS 100. Organizational context of computer-based information systems; common application systems; information architecture; user role in systems development; social and ethical implications.

- **CIS 320 - Data Processing and Analytics**

(4)

Prerequisite: CIS 100 or Equivalent. Intensive and hands-on instruction in using software applications including spreadsheet, database management, application integration, data mining, data visualization and e-collaboration in the cloud environment.

- **CIS 361 - Web Design and Development**

(4)

Prerequisites: CIS 100 or equivalent. An introduction to E-business infrastructure, issues and development. Programming for the web and web publishing tools. Hands-on projects reflect problem-solving skills in the E-business world.

- **CIS 383 - Multimedia and Game Application Programming**

(4)

Prerequisite: CIS 100 or equivalent. Introduction to the development of gaming applications in multimedia environments using software developmental tools. Hands-on projects reflect the real-world entertainment industry.

- **CIS 398 - Cooperative Education in Information Systems**

(see UNIV 398)

(1-4)

Cooperative Education in Information Systems

- **CIS 405 - Database Design and Development**

(4)

Prerequisites: Knowledge of Microsoft Windows and programming language. Role of databases in information systems; data modeling using entity-relationship analysis; relational databases concepts, design, development and management; normalization; SQL; implementation of databases applications.

- **CIS 406 - Systems Analysis and Design**

(4)

Prerequisite: CIS 405. Life cycle and methodologies; requirements determination, logical design, physical design, test and implementation planning, and performance evaluation; communication and interpersonal skills; analysis methods and tools; impact of emerging technologies.

- **CIS 410 - Hardware and Software Architecture**

(4)

Prerequisite: CIS 283. Analysis of contemporary information technology architectures and environments, including: multitiered client/server architectures; enterprise, workgroup, and personal systems hardware and operating systems; and systems and program planning and development tools.

- **CIS 437 - Security Risk Management and Internal Controls**
(also listed as ACCT 437)

(4)

Prerequisite: CIS 301. Introduction to information security risk management including internal controls, operations security, risk assessment, incident management, business continuity and disaster recovery planning, legal issues and ethics, information security program development.

- **CIS 438 - Computer Forensics and Investigations**
(also listed as ACCT 438)

(4)

Prerequisites: CIS 301. Introduction to selected techniques and tools for computer forensics and investigations. Topics include coverage of the latest technology. Hands-on activities allow students to practice skills as they are learned.

- **CIS 445 - Network Application Development**

Prerequisite: CIS 405A. Design and implementation of multiuser business applications emphasizing client/server technology.

- **CIS 451 - Fundamentals of ERP Technology**

(4)

Prerequisite: CIS 301 or equivalent. Enterprise Resource Planning (ERP) database analysis; ERP fundamentals and functionality; ERP systems applications architecture contexts; business processes integration and data reuse hands-on projects using ERP software.

- **CIS 454 - Special Topics in Computer Information Systems**

(4)

Prerequisites: Varies with topic; see Schedule of Classes for specific prerequisites. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects. May be repeated for credit to maximum of 8 units.

- **CIS 457 - Advanced Java Programming**

(4)

Prerequisite: CIS 283. Application programming with Java. Object-oriented programming for business applications in Java, including applications versus applets, classes, interfaces, arrays, multimedia, exceptions, and threads and JSP/Servlet.

• **CIS 458 - E-business Application Development with Oracle**

(4)

Prerequisite: CIS 405A and CIS 283. Introduction to technical architecture and detailed technology solutions required to implement e-business applications in the real world. Includes fundamentals of database application development, connectivity, embedded SQL, and server-side technology.

• **CIS 459 - Advanced Information Systems Development**

(4)

Prerequisite: CIS 301. Design and implementation of an information system; development in an object-based programming and relational data base enterprise environment; group project.

• **CIS 472 - Wireless Communications and Networks**

(4)

Prerequisite: CIS 100 or equivalent. Provides an introduction to wireless communication systems, including WPANs, WLANs, WMANs, WWANs, WSNs, and wireless local loop. Wireless architecture and technologies, QoS, security, multimedia, and business applications will be discussed.

• **CIS 473 - Network Security Essentials and Practice**

(4)

Prerequisite: CIS 100 or equivalent. Introduction to practical computer and network security. Hands-on projects help students to establish the direct experience of using a large array of software program tools on information system security.

• **CIS 476 - Project Planning with Microsoft Project**

4

Prerequisite: CIS100 or Equivalent of Computer Proficiency. The course covers the four phases in the life cycle of a typical project development: initiating, planning executing and closing. Discusses principles associated with effective project management and how to apply these principles in a business environment. Students will become familiar with commonly available computer software tools, and apply the material to a real world project. This is a project based course, and has a significant hands-on component.

• **CIS 484 - Communications Systems**

(4)

Prerequisite: CIS 100. Business data communications and local area network topics including data communications theory, communication hardware and software, microcomputers in communications, LANs, online services, electronic mail, and WANs.

• **CIS 485 - Local Area Networks**

(4)

Prerequisite: CIS 484. Networking fundamentals, design and implementation of a LAN, user and resource management, internetworking and interfacing with the Internet; hands-on exposure to a popular network operating system of the time.

CIS 486 - Managing Information Systems Projects

(4)

Prerequisites: CIS, MGMT 307. Effective behavioral and technical techniques in managing information systems development over the project life cycle.

. CIS 487 - Decision Support Systems

(4)

Prerequisites: CIS 100; FIN 303; MGMT 306. Computer-based decision analysis techniques and software packages; use of spreadsheet facilities, expert systems, optimization, and simulation techniques.

. CIS 488 - Information Security

(4)

Prerequisite: CIS 301 or equivalent or permission of instructor. Broad coverage of common body of knowledge for information security: access control; application security; business continuity; cryptography; legal investigations; network and internet security; operations security; physical security; risk management; security architecture.

. CIS 490 - Capstone: Information Systems

(4)

Prerequisites: Senior standing, passing grade on the WPE. Integration of information systems and technology core courses; provides exposure to roles of information systems and technology professionals in industry.

. CIS 498 - Cooperative Education in Information Systems (see UNIV 498)

(1-4)

Cooperative Education in Information Systems

Information Systems (Graduate)

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses.

. CIS 500 - Information Systems for Management

(4)

Hardware, systems software, applications software, and telecommunication components and architecture of operational and management oriented information systems. Cases in managing the acquisition and use of custom developed and packaged systems.

. CIS 504 - Information Systems

(4)

Overview of computer, communication and software systems. Cases in: business applications of information technology, managing the acquisition and use of application systems, and working with the information systems organization.

. CIS 510 - IS/IT Architectures

(4)

Prerequisite: Procedural language programming experience. Analysis of contemporary information technology architectures and environments, including: multi-tiered client/server architectures; enterprise, workgroup, and personal systems hardware and operating systems; and business systems planning and development tools.

- **CIS 520 - Software Engineering**

(4)

Status and problems with methodologies and tools underlying specification estimation, justification, design, development, installation and maintenance of large business software and systems integration projects.

- **CIS 527 - Seminar: Decision Support Systems**

(4)

Analysis, design, management, and use of tools needed to mine decision support data from data warehouses, the Web, and commercial information services.

- **CIS 528 - Current Problems in Computer Information Systems**

(4)

Prerequisite: CIS 504. Latest research projects in computer information systems; application of research techniques and results to specific problems. May be repeated once as subject matter changes.

- **CIS 543 - Data Base Systems**

(4)

Data base concepts; comparison of relational and object-oriented modeling for data base systems; unified modeling language for data bases; principles of data warehousing; data base administration and development tools; case study in data base design.

- **CIS 560 - Seminar: Microcomputer Networks**

(4)

Prerequisite: CIS 484 or 585. Advanced technology concepts and developments seminar; trends in hardware and associated operating systems and architecture; Distributed Information Systems (distributed data processing), networking, data communications related to networks.

- **CIS 561 - Design of an E-Commerce Site**

(4)

Prerequisite: Basic knowledge of HTML or XML. Analysis, development, and design of a web-based e-commerce site model for an actual business. Team projects incorporate web design, electronic transfer processing, and site development/maintenance.

- **CIS 562 - Authoring Web Sites**

(4)

Prerequisite: Knowledge of Procedural Language Programming. Design of web sites based on visual, color, content, animation, and hierarchical elements; tailoring format and writing for specific audience, purpose, and media; incorporating interactivity to enhance understanding and usability.

• **CIS 581 - Health Care Information Systems**

(4)

Overview of computer, communication and software systems. Cases in health care information technology applications. Development, acquisition and use of custom and packaged application systems. Working with the Information Systems Organization.

• **CIS 583 - Information Systems Consulting**

(4)

Approaches and tools for consulting to the modern information-age organization; presentation of the results of actual information systems consulting projects; student case study presentations.

• **CIS 584 - Seminar: Controlling and Auditing Computer Systems**

(4)

Controlling online interactive computer/data communication systems as a challenge to management and internal and external auditors.

• **CIS 585 - Communication and Information Services**

(4)

Prerequisite: CIS 504. Voice and data communication technologies that underlie the Internet; tools and strategies needed for e-commerce and information services.

• **CIS 586 - Information Systems Project and Change Management**

(4)

Organizational, behavioral and life-cycle aspects of the project planning, staffing, control, and implementation elements of technology-based systems.

• **CIS 590 - IS/IT Policy and Strategy**

(4)

Prerequisite: CIS 504. Discussion of the strategic perspective for aligning organizational strategy, core competencies, and information systems and technology; partnership roles of the CEO and CIO.

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HELP

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Information Systems (Graduate)

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses.

• CIS 598 - Graduate Directed Study

(1)

Investigation of an approved project leading to written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Instructional Technology (Undergraduate)

• EDIT 430 - Information Technologies in the Classroom

(4)

Prerequisites: CS 160 or its equivalent or EDIT 300 and completion of EDCI 300 or EDSP 300 or graduate standing. Using computers and electronic media to analyze data, communication, collaborate, and solve problems in education; evaluation of electronic media for education; designing lessons, curricula, and creating learning environments using electronic media. Using technology in the assessment process.

• EDIT 435 - Computer Systems in Education

(4)

Prerequisite: EDIT 430. Computing systems and their uses in education including computer hardware, operating systems local area networks, peripherals, and telecommunications equipment. Lecture 3 hours, laboratory 2 hours.

• EDIT 451 - Survey of Instructional Media and Technology

(4)

Prerequisite: EDIT 430. Introduction to the M.A. programs in instructional technology, careers in instructional technology, selected learning theories, an introduction to instructional media design, an introduction to portfolios, and basic instructional technology software and hardware tools.

- **EDIT 472 - World Builders**

(5)

Prerequisite: EDIT 430 or equivalent. Students use computers to access educational information and post graphics on the World Wide Web. Students explore future learning styles and broaden learning structures through the use of technology.

- **EDIT 484 - Computer Authoring Tools**

(4)

Prerequisite: EDIT 430. Computer authoring tools and their uses in developing educational software; hands-on experience with various authoring tools.

- **EDIT 490 - Special Topics in Instructional Technology**

(2-5)

Prerequisite: Instructor consent. Investigation of unique problems and new developments in instructional technology as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

Instructional Technology (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program

- **EDIT 501 - Instructional Design of Mediated Instruction**

(4)

Prerequisites: EDIT 430, 451. Learning theories, instructional design models, planning effective instruction, screen design strategies, text and graphic integration, and systematic approach to design of mediated instruction.

- **EDIT 502 - Fundamentals of Computer Education**

(4)

Prerequisites: EDIT 451, EDFN 500. Issues, trends, theories, and research related to the integration of computers and related technology into K- 12 classrooms. Seminar 4 hours.

- **EDIT 510 - Using Educational and Assistive Technology**

(2)

Provides students with the ability to analyze technology and its appropriate use for facilitating the teaching and learning process for accessibility. Course examines issues and methods used in assistive technology.

- **EDIT 540 - Instructional Graphics Design and Production**

(5)

Prerequisites: EDIT 430, 451, 484. Theory and practice in design and production of instructional computer graphics for slides, prints and videos and computer displays. Principles of instructional design of graphics for mediated instruction. Seminar 5 hours.

- **EDIT 550 - Multimedia Design and Production**

(5)

Prerequisites: EDIT 430, 451 and 484. Analysis, design and production of multimedia for education and training. Hands-on experience with Adobe Photoshop and Adobe Premiere for digital video editing. Students need access to web. Lecture 5 hours.

- **EDIT 554 - Video Technology in Education**

(4)

Prerequisite: EDIT 451. Educational value and utilization of video technology in instructional settings; review and application of research; exploration of future uses of the medium.

- **EDIT 556 - Technology Leadership in Schools**

(5)

Prerequisites: EDIT 435, 451 and 501. Planning and developing technology resources for schools and school districts, staff development, funding technology in schools. School reform and technology.

- **EDIT 557 - Computer Assisted and Managed Instruction**

(5)

Prerequisites: EDIT 430, 451, 484 and 501. Fundamentals of information systems and current research for the design, development, and implementation of computer-assisted and managed instruction including tutorial, drill and practice, simulation, gaming and testing.

- **EDIT 560 - Internet and the World Wide Web in Education**

(4)

Prerequisite: EDIT 430 and EDIT 435, or permission of instructor. Using telecommunications and network hardware and software for accessing the internet. Using the World Wide Web to find, develop and use curricular applications. Using the internet as a research tool.

- **EDIT 565 - Distance Learning**

(5)

Issues related to distance learning at all levels of education. Relevant technologies, instructional design, theory, research, and model distance learning programs. Includes hands-on use of technology.

- **EDIT 580 - Applied Experience in Instructional Technology**

(4)

Prerequisites: Advancement to candidacy in MA in Education: Option in Instructional Technology or Computer Education. Examination of several instructional technology field settings. Supervised practicum with instructional technology manager.

- **EDIT 594 - Selected Studies in Instructional Technology**

(1-4)

Prerequisites: Consent of division chair; appropriate prerequisite. Advanced specialized topics involving instructional technology. May be repeated for credit as subject matter changes.

Instructional Technology (Doctoral)

. **EDIT 600 - Educational Technology Leadership**

(3*)

Prerequisite: Admission into doctoral program or consent of instructor. Examines history of technology in educational contexts; analyzes the complex interrelationships between educational technology theory, research, and policy; explores ways leadership can address innovation and the challenge of equal access.

*Semester Units

Intercollegiate Athletics (Undergraduate)

. **ATHL 341 - Series: Individual or Dual Sports**

(1-2 each)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

. **ATHL 341C - Cross Country (Women's)**

(1)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

. **ATHL 341F - Track and Field (Men's) (Women's)**

(2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

. **ATHL 341T - Tennis (Women's)**

(2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

. **ATHL 342 - Series: Individual or Dual Sports**

(1-2 each)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

. **ATHL 342B - Baseball (Men's)**

(2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

• **ATHL 342K - Basketball (Men's) (Women's)**

(2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

• **ATHL 342S - Soccer (Men's) (Women's)**

(2, 2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

• **ATHL 342V - Volleyball (Women's)**

(2)

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. A maximum of 10 units of intercollegiate athletics courses may be applied toward a baccalaureate. Graded CR/NC.

Intercultural Proficiency (Undergraduate)

• **ICP 481 - Achieving Intercultural Proficiency in Urban Communities**

(4)

Prerequisites: Junior standing or above. Preparation for understanding sociocultural and community factors necessary for achieving intercultural proficiency. Practical experience enabling increased intercultural proficiency in relation to diverse communities. Graded ABC/NC.

• **ICP 495 - Practicum: Serving Diverse Communities**

(4)

Prerequisites: ICP 481 and completion of at least 12 additional units of course work that count toward the ICP certificate. Hands-on experience in a multicultural setting in a nonprofit or governmental service agency; service-learning focus that provides opportunities to reflect on practicum experiences in order to enhance understandings of theory. Graded CR/NC.

Interdisciplinary Business (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400- level BUS courses.

• **BUS 101 - Introduction to Higher Education for Business and Economics Majors**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Graded A,B,C/NC

Freshman IHE and Block E

- **BUS 154 - Special Topics in Business**

(1–4)

Current topics of special interest in business as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

- **BUS 200 - Work and Self Development**

(4)

Systematic investigation of how work shapes human understanding and behavior—past, present and future. Covers pertinent psychological, sociocultural, economic and technological issues about work and individual achievement.

GE E

- **BUS 250 - Diversity, Business, and the Workplace**

(4)

How cultural diversity drives business behavior; specific reference to Los Angeles firms builds awareness, knowledge and skills to interact successfully within diverse business environments.

GE D ; Approved diversity course

- **BUS 301 - Transition to Cal State L.A. for Business and Economics Majors**

(2)

Skills and resources for transfer students in College of Business and Economics majors. Meets University transfer student Introduction to Higher Education (IHE) requirement. Campus computer account required. Graded ABC/NC.

- **BUS 305 - Business Communications**

(4)

Prerequisites: ENGL 102 and satisfactory completion of the Writing Proficiency Examination (WPE) (UNIV 400 or UNIV 401). Principles of business communication; emphasis on clear and correct written communication as a tool for business decision-making.

- **BUS 354 - Business and Economics Special Topics**

(1–4)

Prerequisite: Varies with topic: Topics of special interest, as announced in the Schedule of Classes. In-depth presentation and analysis of topics significant to business and economics, lectures, discussions and projects. May be repeated for credit for 8 units as subject matter changes.

- **BUS 395 - Community Service in Business**

(1–3)

Prerequisites: Upper division standing in College of Business and Economics major; approval of college interdisciplinary faculty coordinator in consultation with EPIC director, and acceptance by an appropriate community agency or director of a campus-approved business assistance or development project. Participation in work of a community agency or activities in business assistance or development projects, utilizing professional and/or vocational skills in service to community. May be repeated to maximum of 6 units. Graded CR/NC.

- **BUS 454 - Special Topics in Business**

(1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisites. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects. May be repeated for credit for 20 units as subject matter changes.

• **BUS 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Senior standing and instructor consent to act as sponsor. Independent work and preparation of oral and written reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for credit to maximum of 20 units as subject matter changes.

• **BUS 511 - Managerial Skills and Business Ethics**

(4)

Develops the managerial skills needed for effective individual and group performance in dynamic organizational, societal, and global environments. Topics include organizational culture, ethics, social responsibility, and human resource management. Managerial communication, leadership, motivation, teamwork, negotiation, and intercultural communication skills are emphasized.

• **BUS 512A - Financial Reporting, Control, Management and Markets I**

(4)

Prerequisites: ACCT 200AB and 300; or ACCT 500; or equivalent courses. The course covers the use of financial and managerial accounting concepts applied for analysis, problem solving and decision-making in corporations. Topics include financial statement analysis, project and product analysis internal control, accounting ethics, corporate governance, and tax and data security issues.

• **BUS 512B - Financial Reporting, Control, Management and Markets II**

(4)

Prerequisites: FIN 500 or 303 or equivalent courses and BUS 512A. Basic concepts of managerial finance, portfolio theory, multinational financial management and financial institutions. Topics include financial statement analysis, capital budgeting, mergers and acquisitions, portfolio analysis, asset pricing, management of financial intermediaries, and risk management.

• **BUS 513 - Marketing Management in Global Environment**

(4)

Integrates concepts and tools in the marketing discipline so that students will be able to apply them to the dynamic marketing systems. Topics include analyzing global marketing opportunities, designing marketing strategy, managing, implementing, and evaluating marketing programs.

• **BUS 514A - Managing Business Processes I**

(4)

Prerequisites: MGMT 500 and CIS 500; or equivalent courses. Organized around the value chain methodology, the course covers the business processes central to a firm's product creation and delivery activities. Logistics, process design, marketing, procurement, and technology will be analyzed.

• **BUS 514B - Managing Business Processes II**

(4)

Prerequisites: MGMT 500, CIS 500; or equivalent courses and BUS 514A. Successful forecasting, development, and scheduling is crucial to productivity and Enterprise Resource Planning (ERP) is the primary way to attain it. ERP technologies, Internet and Intranet, and Customer Relations Management are discussed along with implementation and security issues.

- **BUS 515 - Business, Government Policies, and the Global Economy**

(4)

Prerequisite: ECON 201 and 202; or ECON 500; or equivalent courses. Domestic and global economic environments for business. Effects of public policies, national economic policies, and international economic policies on business decision-making. Issues in regional and global economic integration.

- **BUS 596 - Comprehensive Examination**

(0 units)

Students should expect to take the comprehensive examination (BUS 596) the quarter they complete all course work on their program and must comply with college and departmental requirements.

- **BUS 597 - Graduate Research**

(1–4)

Prerequisites: Instructor consent to act as sponsor, approval of graduate associate dean prior to registration. Independent research under guidance of faculty member. Acceptable final written report required. May be repeated for credit to maximum of 8 units. Graded ABC/NC.

- **BUS 599A - Thesis**

(2)

Prerequisites: Written approval of graduate adviser; for M.S. Business Administration candidates, completion of at least one of ACCT 503, ECON 502, or MGMT 501 and concurrent registration in at least one of the remaining two courses. Formal course in research methodology conducted at option of individual departments. Prior to completion, students will have completed a tentative outline of thesis, petitioned graduate adviser for appointment of a thesis committee, and submitted tentative outline to thesis committee. Graded CR/NC.

- **BUS 599B - Thesis**

(3)

Prerequisites: BUS 599A, written approval of thesis committee chair. Completion of thesis under direct supervision of thesis committee. Graded CR/NC.

Interdisciplinary Business (Graduate)

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500-level courses.

- **BUS 516 - Integrative Business Strategy**

(4)

Prerequisites: BUS 511, 512AB, 513, 514AB, and 515, or equivalent. Provides an integrative view of strategically positioning the firm for success. Topics include legal, political, and economic environment, competitive, marketing and sales, technology, financial, and corporate planning strategies.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 150 - Introduction to Higher Education in Technology**

(2)

Must be taken once during the first two quarters at Cal State LA. Orientation to the role of higher education in society and development of personal awareness of graduation requirements in order to obtain a baccalaureate degree in the Department of Technology. Graded CR/NC. NIS Account Required.

- **TECH 301 - Transition to Cal State L.A. for Technology Majors**

(2)

Emphasizes resources and skills that help students attain degree objectives and introduces them to the following aspects of the University: history, structure, policies and procedures, faculty expectations, resources and skills necessary for success. Introductions to professions associated with programs in the department.

- **TECH 384 - Foundations of Technology Education**

(4)

Comprehensive introduction to industrial and technology education in the United States with emphasis on current trends and issues specific to California. First-hand experience in new instructional and curricular methods in technology education.

- **TECH 491 - Technology Education in the Middle Grades**

(4)

Prerequisite: TECH 384. Designing and implementing Technology Education programs consonant with current and future trends in the middle grades. Special emphasis on Explorations in Technology Education and learner-centered instruction. Innovative instructional practices.

- **TECH 492 - Technology Education in the High School**

(4)

Prerequisite: TECH 384. Provide students with the background and knowledge needed to implement Technology Education Programs at the high school level. Emphasis will be placed on standards-based curriculum development and instructional methods.

- **TECH 493 - Technology Education Facilities: Planning, Construction, Equipment, and Maintenance**

(3)

Prerequisite: TECH 384. Supervision of planning and construction, selection of equipment, and maintenance of educational facilities to support technology education programs at the middle school, high school and post secondary levels.

- **TECH 494 - Industrial and Technology Education Curriculum**

(4)

Prerequisite: TECH 384. Curriculum development and instructional models for technology education programs at the middle school, high school and post secondary levels.

Italian (Undergraduate)

• ITAL 100A - Elementary Italian

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Italian. Introduction to the customs, culture, and institutions of the Italian people.

GE C4

• ITAL 100B - Elementary Italian

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Italian. Introduction to the customs, culture, and institutions of the Italian people.

GE C4

Japanese (Undergraduate)

All Upper Division courses except 307 are conducted in Japanese

• JAPN 100A - Elementary Japanese

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Japanese. Introduction to the customs, culture, and institutions of the Japanese people.

GE C4

• JAPN 100B - Elementary Japanese

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Japanese. Introduction to the customs, culture, and institutions of the Japanese people.

GE C4

• JAPN 100C - Elementary Japanese

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Japanese. Introduction to the customs, culture, and institutions of the Japanese people.

GE C4

• JAPN 150 - Contemporary Japan through Popular Culture

(4)

Study of contemporary Japan (i.e., society, cultural identity, and daily life) through examination of its popular culture, such as songs, comics, animation, and films. Taught in English.

• JAPN 200A - Intermediate Japanese

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Japanese; grammar review; vocabulary building; study of the customs, culture, and institutions of the Japanese people.

GE C4

• **JAPN 200B - Intermediate Japanese**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Japanese; grammar review; vocabulary building; study of the customs, culture, and institutions of the Japanese people.

GE C4

• **JAPN 200C - Intermediate Japanese**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Japanese; grammar review; vocabulary building; study of the customs, culture, and institutions of the Japanese people.

GE C4

• **JAPN 300A - Advanced Japanese**

(4)

Prerequisite: JAPN 200C. Advanced study of Japanese with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **JAPN 300B - Advanced Japanese**

(4)

Prerequisite: JAPN 200C. Advanced study of Japanese with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **JAPN 300C - Advanced Japanese**

(4)

Prerequisite: JAPN 200C. Advanced study of Japanese with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **JAPN 307 - Japanese Literature in Translation**

(4)

Study of major works of Japanese literature organized around different themes. Subject matter may change with each offering. No knowledge of Japanese required. May be repeated to a maximum of 8 units for credit as content

• **JAPN 310 - Japanese Civilization to 1600**

(4)

Prerequisite: JAPN 200C. Origin and development of Japanese culture; religion, thought, literature, art, and patterns of life from Neolithic age to 1600 A.D.

• **JAPN 311 - Japanese Civilization Since 1600**

(4)

Prerequisite: JAPN 200C. Significant aspects of Japanese culture from 1600 A.D. to present; their evolution, characteristics, and synthesis in modern period.

• **JAPN 315 - Language in Japanese Society**

(4)

Prerequisite: JAPN 200C. Study of how language functions in contemporary Japanese society. Politeness, gender, language attitudes, the mechanics of cross-cultural misunderstanding, how language incorporates Japanese social constructs.

• **JAPN 320 - Introduction to Japanese Linguistics**

(4)

Prerequisite: JAPN 200C. Overview of Japanese linguistics with comparisons to other languages. Includes Japanese phonetics, phonology, morphology, syntax, pragmatics, and typology.

• **JAPN 380 - Business Japanese**

(4)

Prerequisite: JAPN 200C. Intensive study of Japanese used in business; theory and practice of fundamentals of commercial correspondence and negotiations in Japanese.

• **JAPN 395 - Japanese in Community Service**

(1–4)

Prerequisites: JAPN 300C; approval by departmental faculty adviser in consultation with EPIC director, and acceptance by community agency. Participation in work of a community agency or campus program utilizing communication skills in Japanese. May be repeated to maximum of 6 units. Graded CR/NC.

• **JAPN 400A - Advanced Reading and Composition**

(4)

Prerequisite: JAPN 300C. Should be taken in sequence. Improvement of reading ability in modern Japanese; expository writing and use of advanced vocabulary and composition.

• **JAPN 400B - Advanced Reading and Composition**

(4)

Prerequisite: JAPN 300C. Should be taken in sequence. Improvement of reading ability in modern Japanese; expository writing and use of advanced vocabulary and composition.

• **JAPN 400C - Advanced Reading and Composition**

(4)

Prerequisite: JAPN 300C. Should be taken in sequence. Improvement of reading ability in modern Japanese; expository writing and use of advanced vocabulary and composition.

• **JAPN 403 - Contrastive Analysis of Japanese and English Structures**

(4)

Prerequisites: JAPN 300ABC and ENGL 401. Contrastive analysis of structures of Japanese and English describing similarities and differences of each; emphasis on studying structures that cause interference in language learning.

• **JAPN 408 - Classical Japanese Literature**

(4)

Prerequisite: JAPN 300C. Selected works of Japanese prose and poetry from earliest times to 1868. Introduction of classical grammar and vocabulary as needed.

• **JAPN 410 - Modern Japanese Literature**

(4)

Prerequisite: JAPN 300C. Selected works of Japanese prose and poetry from 1868 to the present. Literary trends of Meiji, Taisho, and Showa periods.

• **JAPN 450 - Proseminar: Japanese Linguistics**

(4)

Prerequisites: JAPN 300B, JAPN 320, ENGL 401. In-depth study of selected topics in Japanese linguistics. May be repeated to a maximum of 8 units as subject matter changes.

• **JAPN 454L - Special Topics in Japanese**

(1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in Japanese as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **JAPN 454P - Special Topics in Japanese**

(1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in Japanese as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• **JAPN 460 - Proseminar: Masters of Japanese Culture and Thought**

(4)

Prerequisite: JAPN 300C. Original works of major figures in Japanese intellectual history. Individual subjects for study change with each offering. May be repeated to a maximum of 8 units as subject matter changes.

Journalism (Undergraduate)

- **JOUR 130 - Introduction to Graphic Arts**
(also listed as TECH 130)

(3)

General industrial education course emphasizing the importance of graphic communications in our culture. History, theory, and laboratory-shop practice of varied printing processes, including letterpress, lithography, silk screen, and bookbinding. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **JOUR 391 - University Times**

(4)

Prerequisites: Passing WPE score; TVF 292 for TVF majors. The development and practice of skills in the journalistic craft of reporting, writing and editing nonfiction. Lecture 3 hours, laboratory 2 hours. May be repeated up to 8 units.

- **JOUR 453 - International Communication Media**

(4)

Prerequisites: TVF 220, 224 or COMM 150. Description and analysis of media systems (print, audio, and video) as they exist in various countries around the world, and the means by which information is exchanged internationally.

- **JOUR 492 - Radio and Television News Writing**

(4)

Prerequisites: TVF 292. Analysis and preparation of local news and commercials, introductions and special news features for radio and television.

- **JOUR 499 - Undergraduate Directed Study**

(2-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated for credit.

Kinesiology (Undergraduate)

A student who has completed an intermediate or advanced course may not subsequently receive credit for a lower level course in the same activity.

Successful completion of UNIV 400, the Writing Proficiency Examination, is prerequisite to enrollment in all upper division major courses in kinesiology.

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by School and approval of graduate adviser: KIN 498, 499

- **KIN 101A - Aerobics – Beginning**

(1)

Introduction and exploration of the fundamental skills of aerobics and cardiovascular development. Skill progression, conditioning, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 101B - Weight Training – Beginning**

(1)
Introduction and exploration of the fundamental skills of weight training. Skill progression, conditioning, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101C - Physical Conditioning – Beginning**

(1)
Introduction and exploration of the fundamental skills of strength and cardiovascular conditioning. Skill progression, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units (Activity 2 hours)

• **KIN 101D - Jogging – Beginning**

(1)
Introduction and exploration of the fundamental skills of jogging within a context of individual fitness development. Skill progression, conditioning, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101E - Jazz Exercise – Beginning**

(1)
Introduction and exploration of the fundamental skills of jazz exercise and cardiovascular development. Skill progression, conditioning, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101F - Swimming – Beginning**

(1)
Introduction and exploration of the fundamental skills of swimming. Skill progression, conditioning, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

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HELP

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Kinesiology (Undergraduate)

A student who has completed an intermediate or advanced course may not subsequently receive credit for a lower level course in the same activity.

Successful completion of UNIV 400, the Writing Proficiency Examination, is prerequisite to enrollment in all upper division major courses in kinesiology.

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by School and approval of graduate adviser: KIN 498, 499

• KIN 101G - Aqua Aerobics – Beginning

(1)

Introduction and exploration of the fundamental skills of water-based aerobics. Skill progression, conditioning, individual fitness development, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• KIN 101R - Karate – Beginning

(1)

Introduction and exploration of the fundamental skills and strategies of karate. Proper skill development in the areas of blocking, punching, and kicking forms is emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• KIN 101S - Jujitsu – Beginning

(1)

Introduction and exploration of the fundamental skills and strategies of jujitsu. Proper skill development in the areas of grappling, throwing, and self-defense are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• KIN 101T - Judo – Beginning

(1)

Introduction and exploration of the fundamental skills and strategies of Kodokan judo. Proper skill development in the areas of throwing, grappling, and self-defense are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101U - Self Defense for Women**

(1)

Fitness and self-defense activities designed to develop skill and knowledge about street defense for women. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101V - Yoga – Beginning**

(1)

Introduction and exploration of the practice of yoga including body positions, balance, and breathing. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 101W - Tai Chi – Beginning**

(1)

Development of a beginning understanding of Tai Chi Chuan that involves movement's forms, and positions that involve deep tranquil breathing creating a sense of centered wellbeing to help reduce stress, increase balance, and relax the body and mind. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 102F - Tennis – Beginning**

(1)

Introduction and exploration of tennis including skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 102G - Badminton – Beginning**

(1)

Introduction and exploration of badminton including skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 102H - Golf – Beginning**

(1)

Introduction and exploration of golf including skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 102I - Archery – Beginning**

(1)

Introduction and exploration of archery including skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 102Q - Indoor Soccer – Beginning**

(1)

Introduction and exploration of the fundamental skills of indoor soccer. Games and activities are designed to develop skill, knowledge of rules and background and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 102R - Volleyball – Beginning**

(1)

Exploration and introduction of volleyball including skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 102S - Basketball – Beginning**

(1)

Introduction and exploration of basketball skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 102V - Soccer – Beginning**

(1)

Introduction and exploration of soccer skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 102Y - Softball – Beginning**

(1)

Introduction and exploration of softball skills, strategies, rules, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 103D - Gymnastics and Tumbling – Beginning**

(1)

Introduction and exploration of the fundamental skills of tumbling and basic skills on various gymnastics apparatus. Proper skill progression, conditioning, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 103F - Social Dance – Beginning**

(1)

Introduction and exploration of social dance skills, cultural ties, and analysis of techniques. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 105 - Summer Bridge**

(1–2)

Varied experiences for introducing Summer Bridge students to activities presented in the physical education activity program. Health related fitness level assessed. Activity 2 hours per unit. Graded CR/NC.

- **KIN 110 - Intramural Sports**

(1)

Participation in university intramural sports. Elective credit only; may be repeated to maximum of 16 units. Activity 2 hours minimum. Graded

CR/NC.

• **KIN 150 - Fitness and Wellness in Contemporary Society**

(4)

Understanding self as integrated physiological, psychological, and sociological being. The impact of sociocultural experiences and health-related fitness on the individual, society and the environment is emphasized. Lecture 3 hours, laboratory 2 hours.

GE E

• **KIN 154 - Special Activities in Physical Education**

(1)

Varied experiences reflecting current interests of students in physical education and related experimental areas, as announced in Schedule of Classes. May be repeated as subject matter changes. Activity 2 hours.

• **KIN 155 - Individual Therapeutic Exercise**

(1–4)

Prerequisite: Assignment by the University physician or personal physician. Individual programs of exercise for students who have a need for special exercise. Suitable for students with physical limitations or recuperation from accident or illness. May be repeated for credit as many times as indicated by the University physician or personal physician.

• **KIN 201F - Swimming – Intermediate**

(1)

Exploration and development of intermediate swimming techniques. Skills, conditioning, individual fitness, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 201V - Yoga – Intermediate**

(1)

Further development of a deeper and expanded study of the practice of yoga. New positions of balance and pranayama (the art of yogic breathing) are introduced. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 202F - Tennis – Intermediate**

(1)

Exploration and development of intermediate tennis techniques. Skills, strategies, rules, and analysis of techniques are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

• **KIN 202S - Basketball – Intermediate**

(1)

Exploration and development of intermediate basketball techniques. Skills, strategies, rules, and analysis of techniques are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 204A - Diet and Exercise for Weight Management**
(also listed as NTRS 204A)

(1)

Evaluation of personal diet and exercise patterns. Development, implementation, and evaluation of an individualized diet and exercise plan for weight management. Brief examination of diet and exercise regimens for purposes of weight management; importance of combining a healthy diet and appropriate exercise in daily activities. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 250 - Introduction to Kinesiology**

(4)

Introduction to the discipline of kinesiology; examination of the study of physical activity from the perspectives of experience, research, and professional practice.

*C-ID KIN 100

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

- **KIN 254L - Selected Topics in Physical Education**

(1-3)

Current activities, new and varied, of interest to general student body, as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

- **KIN 254P - Selected Topics in Physical Education**

(1-3)

Current activities, new and varied, of interest to general student body, as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

- **KIN 260 - Computer Applications in Kinesiology**

(2)

Prerequisite: Completion of the computing basics self-paced online learning module for KIN Majors. Application of personal computers in Kinesiology and physical education. Emphasis on delivery of discipline related content through available computing technology. Develop familiarity with current discipline specific software. Lecture 1 hr, laboratory 3 hrs

- **KIN 301F - Swimming – Advanced**

(1)

Exploration and development of advanced swimming techniques. Skills, conditioning, individual fitness, and safety are emphasized. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **KIN 305 - Theory and Analysis of Aquatics**

(3)

Prerequisite: Intermediate swimming skills. Must pass American Red Cross swim exam. Theory and analysis of performance techniques, historical knowledge, safety procedures, and conditioning. Enables students to become certified in Water Safety Instruction through the American Red Cross. Lecture 2 hours, demonstration-laboratory 2 hours.

- **KIN 310 - Written Communication for Kinesiology**

(4)

Prerequisite: Successful completion of the Graduation Writing Assessment Requirement (GWAR). Written communication skills for the Kinesiology major with emphasis on techniques of writing formal reports, public relations information, and essays.

- **KIN 315 - Early Infusion in Physical Education**

(4)

Corequisite: KIN 250. Practical experiences in a school setting. Observation and participation under the direction of a professional at elementary/secondary physical education program site.

- **KIN 319 - Instructional Strategies in Physical Education**

(4)

Corequisite: KIN 315. Effective teaching strategies in physical education; pedagogical behaviors necessary for effective instruction on the subject matter. Effective teaching of physical education in both elementary and secondary schools.

- **KIN 320A - Professional Team Activity #1 - Basketball, Volleyball, Team Handball**

(3)

Prerequisites: KIN 315 and 319. Introduction to the basic team activities of basketball, volleyball and team handball; teaching methods in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 320B - Professional Team Activity #2 - Flag Football, Soccer, Softball**

(3)

Prerequisites: KIN 315 and 319. Introduction to the basic team activities of flag football, soccer, softball; teaching methods in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 320C - Professional Individual Activity - Archery, Golf, Track and Field**

(3)

Prerequisites: KIN 315 and 319. Introduction to the basic individual activities of archery, golf and track and field, teaching methods in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 320D - Professional Racquet Activity - Badminton, Racquetball, Tennis**

(3)

Prerequisites: KIN 315 and 319. Introduction to the basic racquet activities of badminton, racquetball, tennis, teaching methods in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 320E - Professional Aesthetic Activity - Combatives, Dance, Rhythmic Gymnastics**

(3)

Prerequisites: KIN 315 and 319. Introduction to basic aesthetic activities of combatives, dance, and rhythmic gymnastics; teaching methods

in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 320F - Professional Adventure Activity – Outdoor Education, Aquatics, Contemporary Games**

(3)

Prerequisites: KIN 315 and 319. Introduction to the basic outdoor education, aquatics and contemporary games, teaching methods in school physical education programs; developing and refining basic skills for performances; rules, safety and equipment.

- **KIN 325 - Principles of Physical Fitness**

(4)

Prerequisites: BIOL 200AB. Prerequisite or Corequisite: KIN 310. Designing and conducting cardiovascular, resistance, and flexibility training programs for lifelong health and fitness.

- **KIN 330 - Exercise Psychology**

(4)

Prerequisite: PSY 150. Psychological issues associated with exercise prescription. Strategies for increasing exercise adherence.

- **KIN 335 - Anatomical Kinesiology**

(4)

Prerequisites: BIOL 200AB. Structure and function of the musculoskeletal system in relation to human movement. Lecture 3 hrs, laboratory 3 hrs.

- **KIN 340 - Applied Biomechanics**

(5)

Prerequisites: Prerequisites: MATH 102, MATH/ECON 109; PHYS 156 and BIOL 200B. Prerequisite or Corequisite: KIN 310. Analysis of anatomical and mechanical bases for efficiency of human movement. Lecture 4 hours, laboratory 3 hours.

- **KIN 345 - Physiological Effects of Exercise During Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Age-related physiological changes with mature adults, and the impact of physical activity on physical capacity. Some sections of this course will include service learning as an option.

GE Theme F

- **KIN 360 - Physiology of Exercise and Physical Activity**

(5)

Prerequisites: MATH 102, MATH/ECON 109, and BIOL 200B. Prerequisite or Corequisite: KIN 310. Analysis of physiological bases of effect of movement and stress on human organism; factors affecting conditioning.

- **KIN 365 - Applied Motor Learning**

(4)

Prerequisites: MATH 102; MATH/ECON 109. Prerequisite or Corequisite: KIN 310. Theory and research on how movements are controlled, learned and changed as a result of practice and/or experience. Synthesis of theory with skill acquisition is emphasized. Lecture 3 hours, laboratory 3 hours.

- **KIN 370 - Psychomotor Development**

(4)

Prerequisites: BIOL 200B; PSY 150; SOC 201. Prerequisite or Corequisite: KIN 310. Analysis of the development of human motor skills from infancy to older adulthood.

- **KIN 375 - Historical Analyses of Physical Activity**

(4)

Prerequisite: KIN 250. Prerequisite or Corequisite: KIN 310. Historical perspective of the development of physical activity programs; includes information about relevant philosophies in historical periods covered.

- **KIN 380 - Psychological Analyses of Physical Activity**

(4)

Prerequisites: PSY 150 and SOC 201. Prerequisite or Corequisite: KIN 310. Discussion of theory-based research in motivation, arousal, aggression, personality, and audience effects, as applied to physical activity settings.

- **KIN 385 - Sociocultural Analyses of Physical Activity**

(4)

Prerequisites: PSY 150 and SOC 201. Prerequisite or Corequisite: KIN 310. Sociocultural analyses of sport, exercise, and other physical activities; focus on the United States and Canada.

- **KIN 400 - Elementary School Physical Education Program Design**

(4)

Prerequisites: KIN 320A-F. Current elementary curricular and instructional practices, models of elementary physical education programs; strategies for effective teaching in a school setting; design and implementation of appropriate curriculum content.

- **KIN 405 - Secondary School Physical Education Program Design**

(4)

Prerequisites: KIN 319, four courses from KIN 320 A-F. Development of meaningful and effective physical education curricula for middle school and high school student populations.

- **KIN 415 - Assessment of Physical Activity Instruction**

(4)

Prerequisites: KIN 319. Theoretical understanding of evaluating and investigating physical education teaching effectiveness; current educational evaluation trends; emphasis on current technologies of assessment for physical education instruction.

- **KIN 420 - Development of Physical Activity**

(3)

Movement experiences related to children's health and learning; health promotion and disease prevention through exercise; fundamental movements; models of elementary physical education programs; teaching strategies; curriculum design and lesson planning. Lecture 2 hours, activity 2 hours.

- **KIN 421 - Youth Development and Physical Activity**

(4)

Prerequisite: YAA 290. Knowledge and skills of physical activity programming to assist underserved youth in the community.

- **KIN 422 - Community Service Learning and Physical Activity Programs**

(4)

Prerequisite: KIN 421. Classroom and field-based experiences for students interested in using physical activity programs to assist in community development. This course requires service learning.

- **KIN 425 - Dimensions of Kinesiology for Individuals with Disabilities**

(4)

Prerequisite: KIN 250; Prerequisite or Corequisite: KIN 310. Submission of a Certificate of Clearance to School of Kinesiology and Nutritional Science for students completing the Physical Education Single Subject Teaching options and, Community Leadership option. Conditions requiring special physical education including: learning disabilities, retardation, neurological and orthopedic conditions. Lecture 3 hours, practical teaching in programs for exceptional students 2 hours.

- **KIN 428 - Psychomotor Assessment for Individuals With Disabilities**

(3)

Prerequisite: KIN 425. Study of prevalent disabilities, with implications for evaluation and diagnosis of motor problems utilizing assessment tools to develop specially designed instructional programs. Practical experience with assessment required.

- **KIN 430 - Clinical Techniques: Rehabilitation Modalities**

(4)

Introduction to stretching and massage techniques for use in exercise therapies for individuals with physical impairments. Lecture 3 hours; Laboratory 3 hours.

- **KIN 431 - Low-Incidence Disabilities: Physical Activity Programming and Instruction**

(3)

Prerequisites: KIN 425. Corequisite: KIN 480B. Etiology, movement characteristics, learning problems of individuals with low-incidence disabilities in physical activity, including: severe/profound mental retardation, visual and hearing impairments, multiple disabilities, autism and traumatic brain injury.

- **KIN 433 - High-Incidence Disabilities: Physical Activity Programming and Instruction**

(3)

Prerequisites: KIN 425. Corequisite: KIN 480B. Problems of pupils with high-incidence disabilities in physical activity context; implications for physical education program development.

- **KIN 435 - Physical Disabilities and Other Health Impairments: Physical Activity Programming and Instruction**

(3)

Prerequisite: KIN 425. Corequisite: KIN 480B. Study of prevalent physical disabilities and other health impairments: implications for program development, organization, administration, and evaluation of adapted physical education students in elementary and secondary schools.

- **KIN 436A - Principles of Mobility Training**

(4)

Prerequisites: BIOL 200A, BIOL 200B, and concurrent enrollment in KIN 436B. Introduction to mobility training techniques such as range of motion, flexibility, manual resistance exercises, posture, balance and gait training.

- **KIN 436B - Mobility Training Practicum**

(2)

Prerequisite: KIN 436A (or concurrent enrollment in KIN 436A) Application of mobility training to physically impaired clients. May be repeated for a maximum of 12 units. Service learning is required.

- **KIN 437 - Disease and Plasticity in Neuromuscular Systems**

(4)

Prerequisite: Upper division standing. Introduction to neuromuscular diseases and exercise-induced plasticity in neuromuscular systems.

- **KIN 438A - Principles of Exercise for Older Adults**

(5)

Prerequisite: KIN 325. Analyses of development and implementation processes of exercise programs for older adults.

- **KIN 438B - Field Experience in Exercise for Older Adults**

(1)

Prerequisite: KIN 438A. Directed practicum in an exercise program for older adults in a community setting. Regular conferences with supervisor. May be repeated for a maximum of 6 units. Service learning is required.

- **KIN 439 - Rehabilitation Exercise Machines**

(3)

Prerequisite: KIN 340. Practical understanding of the function, design and selection of exercise machines. Understanding and addressing the special needs of users with a disability. May be repeated for a maximum of 9 units. Service learning is required.

- **KIN 440 - Psychosocial Aspects of Exercise During Aging**

(4)

Prerequisite: Upper division standing. Psychological and social issues pertinent to exercise and physical activity for older adults.

- **KIN 441 - Gender, Sport, and Culture**
(also listed as WOMN 441)

(4)

Prerequisite: Upper division standing. Examination of the gendered nature of sport and physical activity. Analyzes theoretical and methodological assumptions pertaining to gender and physical activity/sport contexts. The feminist critique of socio-cultural sport studies is also considered.

- **KIN 454L - Special Topics in Physical Education**

(1–4)

Prerequisite: Varies with topic. Current issues and interests of students in physical education and related experimental areas, as announced in Schedule of Classes. May be repeated as subject matter changes. Lecture and activity.

- **KIN 454P - Special Topics in Physical Education**

(1–4)

Prerequisite: Varies with topic. Current issues and interests of students in physical education and related experimental areas, as announced in Schedule of Classes. May be repeated as subject matter changes. Lecture and activity.

- **KIN 455 - Principles of Clinical Exercise Testing**

(4)

Prerequisite: KIN 360. Diagnostic and prognostic aspects of clinical exercise testing, which provide information that could not be provided by testing patients at rest. Special consideration of exercise electrocardiography. Lecture 3 hours; Laboratory 3 hours.

- **KIN 456 - Sport and Exercise Ergogenic Aids**

(4)

Prerequisite: KIN 360. Relevant issues in ergogenic aids and sport. Pharmacological and hormonal aids; dietary requirements and issues of individuals who engage in exercise and sport.

- **KIN 460 - Principles of Physical Fitness Assessment**

(5)

Prerequisite: KIN 360. Physical fitness and performance assessment techniques employed within the laboratory environment: electrocardiography, electromyography, closed and open circuit indirect calorimetry, stress testing, hydrodensitometry, respirometry and cardiocirculatory. Lecture 4 hours; Laboratory 3 hours.

- **KIN 461 - Advanced Exercise Physiology**

(5)

Prerequisite: KIN 360. Advanced topics in exercise physiology, including exercise responses in the neuroendocrine, cardiopulmonary, immune, and skeletal systems. Topics will also include system-level integration during exercise, and exercise in stressful environments.

Lecture 4 hours; Laboratory 3 hours.

- **KIN 465 - Principles of Exercise Prescription**

(5)

Prerequisite: KIN 460. Development and implementation of exercise prescription for aerobic endurance, anaerobic endurance, strength, flexibility, and optimal body composition in apparently healthy, special, and general populations. Lecture 4 hours; Laboratory 3 hours.

- **KIN 475A - Field Experience in Elementary Physical Education**

(3)

Prerequisites: KIN required core courses and KIN 319, KIN 320 A-F, KIN 400, KIN 405, KIN 415. Submission of a Certificate of Clearance to course instructor. Laboratory experience in application of organization and management techniques related to effective conduct of physical education. Emphasis on application for elementary school level physical education class. Laboratory/practicum 9 hours.

- **KIN 475B - Field Experience in Secondary Physical Education**

(3)

Prerequisites: KIN required core courses and KIN 319, KIN 320 A-F, KIN 400, KIN 405, KIN 415. Submission of a Certificate of Clearance to course instructor. Laboratory experience in application of organization and management techniques related to effective conduct of physical education. Emphasis on application for secondary school level physical education class. Laboratory/ practicum 9 hours.

- **KIN 480A - Educational Field Experiences in Adapted Physical Education**

(1)

Prerequisite: Permission of instructor. Submission of a Certificate of Clearance to School of Kinesiology and Nutritional Science. Educational practices in teaching adapted physical education; processes and application of methods, materials, and individualized instructional units in meeting the needs of individuals with disabilities. Course may be repeated for a maximum of 2 units. Laboratory hours: 30.

- **KIN 480B - Clinical Field Experiences in Adapted Physical Education**

(1)

Corequisites: KIN 431, 433 or 435. Prerequisite: Submission of a Certificate of Clearance to School of Kinesiology and Nutritional Science. Clinical practice in teaching adapted physical education; processes and application of methods, materials, and individualized instructional units in meeting the needs of individuals with disabilities. Course may be repeated for a maximum of 3 units. Laboratory hours: 30-90.

- **KIN 485A - Practicum in Exercise and Human Performance**

(2)

Prerequisite: KIN 465. Directed on-campus practicum in a career related setting. Regular conferences with supervisor. Total of 100 hours. Graded CR/NC

- **KIN 485B - Field Experience in Exercise and Human Performance**

(4)

Prerequisite: Upper division standing. Directed practicum in a career-related role in a community setting. Regular conferences with supervisor. Total of 200 hours. Graded CR/NC.

• **KIN 490 - Capstone Seminar in Physical Education**

(4)

Prerequisites: KIN required core courses and KIN 319, KIN 320 A-F, KIN 400, KIN 405, KIN 415. Submission of a Certificate of Clearance to course instructor. Seminar setting to discuss and synthesis issues related to physical education teaching; emphasis on evaluation and application of knowledge gained throughout the degree program. Service learning required.

• **KIN 495A - Early Directed Field Experience in Community Leadership**

(3)

Prerequisites: KIN Core Courses, submission of Certificate of Clearance to course instructor, and consent of instructor. Student placement to provide experiential learning in leadership of physical activity programs under supervision in a community agency or school setting. The focus is observing physical activity programming for underserved youth. Graded CR/NC. If students receive a "NC" they may repeat the entire course only once.

• **KIN 495B - Advanced Directed Field Experience in Community Leadership**

(3)

Prerequisites: KIN Core Courses, KIN Community Leadership Option Courses, submission of Certificate of Clearance to course instructor, and consent of instructor. Student placement to provide experiential learning in leadership of physical activity programs under supervision in a community agency or school setting. The focus is delivering physical activity programming for underserved youth. Graded CR/NC. If students receive a "NC" they may repeat the entire course only once.

• **KIN 496 - Capstone Seminar in Exercise and Human Performance**

(4)

Prerequisites: KIN 485B. Integration of concepts of other courses in both the exercise and human performance option and the core; provision of a forum for sharing experiences obtained in the practicum and field experience; preparation for certifications in exercise science provided by various professional organizations.

• **KIN 497 - Projects**

(1-3)

Projects

• **KIN 498 - Cooperative Education – Advanced**
(see UNIV 498)

(2)

Cooperative Education – Advanced

• **KIN 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated for credit.

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by School and approval of graduate adviser: KIN 498, 499

Classified graduate standing is required for admission to 500-level courses.

• **KIN 434 - Organizational Strategies for Adapted Physical Education**

(4)

Techniques for program, curriculum development in adapted physical education; effect of current legislation on roles and responsibilities of adapted physical educators; design and development of curricular materials for urban and rural environments.

• **KIN 503 - Applied Statistics in Kinesiology**

(4)

Prerequisite: Undergraduate introductory course in statistics. Analysis of variables related to kinesiology, application of statistical procedures in basic research design.

• **KIN 504 - Research Design in Kinesiology**

(5)

Prerequisites: KIN 503 or consent of instructor; undergraduate major in Kinesiology or related discipline. Must be completed within first 12 units of the student's approved program. Analysis, evaluation, and interpretation of research studies and investigations in kinesiology.

• **KIN 507 - Cultural Analyses of Sport in the United States**

(4)

Prerequisite: Consent of instructor. Examination of research focused on cultural analyses of sport as a sociocultural system with an emphasis on diverse populations. Focuses on theoretical and conceptual issues in the sociology of sport.

• **KIN 536 - Seminar: Issues in Adapted Physical Education**

(4)

Prerequisite: KIN 491. Individual survey and analysis of current issues in administration, supervision, instruction, curriculum, and assessment in adapted physical education.

• **KIN 545 - Research on Effective Teaching in Physical Education**

(4)

Methods for research on teaching in physical education; knowledge of research results related to teaching and teacher effectiveness; and current trends in research on effective teaching in physical education.

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HELP

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Kinesiology (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by School and approval of graduate adviser: KIN 498, 499

Classified graduate standing is required for admission to 500-level courses.

• KIN 546 - Analysis of Physical Education Programming

(4)

Prerequisite: Consent of instructor. Examination of scholarly literature concerning principles of program development and analysis; consideration of internal and external influences on program design; comparative analyses of contemporary school-based program models.

• KIN 548 - Physical Activity Program Leadership

(4)

Prerequisite: Consent of instructor. Analysis of research concerning skills to lead, manage, and assess physical activity programs: advocacy; staff management, development and supervision; public relations and marketing; fundraising; assessing program needs. Service learning required.

• KIN 549 - Portraits of Physical Activity Experiences

(4)

Prerequisite: Consent of instructor. Analysis and critique of research concerning experiences of physical activity participants, including children in school and community settings, and adults across the age span in a variety of community settings.

• KIN 554 - Selected Topics in Kinesiology

(4)

Advanced study of selected contemporary topics in Kinesiology. May be repeated a maximum of 12 units as topics change.

• KIN 555 - Community Development and Physical Activity Programming

(4)

Prerequisite: Consent of instructor. Examination and analysis of research on community development utilizing an asset-based model; application of knowledge to promote physical activity programs that support building and strengthening communities.

• **KIN 560 - Cardiorespiratory Aspects of Human Performance**

(4)

Prerequisite: Consent of instructor. In-depth analysis of research concerning the functions of cardiovascular and pulmonary systems during rest, physical performance and recovery and their adaptation to exercise training. Seminar 3 hours, laboratory 3 hours.

• **KIN 561 - Neuromuscular Aspects of Human Performance**

(4)

Prerequisite: Consent of instructor. Analysis of research concerning neuromuscular factors involved in human movement. Special emphasis upon the nervous and muscular systems related to the expression and enhancement of muscular strength, endurance and power. Lecture 3 hours, laboratory 3 hours.

• **KIN 562 - Exercise Interventions in Cardiac Rehabilitation**

(4)

Prerequisite: Consent of instructor. Analysis of research concerning development and administration of cardiac rehabilitation programs with a special emphasis on exercise testing, prescription, and training of cardiac patients in outpatient phases.

• **KIN 563 - Exercise Interventions in Neuromuscular Rehabilitation**

(4)

Prerequisite: Consent of instructor. Examination and analysis of state-of-the-art rehabilitation practices, research knowledge, and theories for regaining movement after neuromuscular injuries.

• **KIN 564 - Exercise Interventions for Special Populations**

(4)

Prerequisite: Consent of instructor. Examination of research concerning physiological responses and adaptations to exercise of special populations. Includes exercise testing and prescription. Emphasis on exercise limitations and responses which differ from normal populations.

• **KIN 565 - Endocrine Aspects of Human Performance**

(4)

Prerequisites: BIOL 200AB and consent of instructor. In-depth analysis of the normal and abnormal functions of the endocrine system during rest, physical performance, and recovery, and the system's adaptation to exercise training.

• **KIN 580 - Exercise Psychology**

(4)

Prerequisite: Consent of instructor. Psychological issues associated with exercise and physical activity. Analysis and critique of research and theory relevant to exercise adherence, motivation, self-efficacy, and attributional style. Practical applications of theoretical concepts.

• **KIN 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **KIN 598 - Graduate Directed Study in Kinesiology**

(1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics; regular conferences with sponsor. Maybe repeated to a maximum of 12 units.

• **KIN 599 - Thesis or Project**

(1-6)

Prerequisites: Advancement to candidacy, consent of student's graduate adviser to act as sponsor. Independent research resulting in a thesis, or independent project that applies theoretical knowledge to professional problem solving. Must be repeated to a maximum of 6 units. Graded CR/NC.

Korean (Undergraduate)

• **KOR 100A - Elementary Korean**

(4)

Prerequisites: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Korean. Introduction to the customs, culture, and institutions of the Korean people.

GE C4

• **KOR 100B - Elementary Korean**

(4)

Prerequisites: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Korean. Introduction to the customs, culture, and institutions of the Korean people.

GE C4

• **KOR 100C - Elementary Korean**

(4)

Prerequisites: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Korean. Introduction to the customs, culture, and institutions of the Korean people.

GE C4

• **KOR 200A - Intermediate Korean**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Korean; grammar review; vocabulary building; study of the customs, culture, and institutions of the Korean people.

• **KOR 200B - Intermediate Korean**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Korean; grammar review; vocabulary building; study of the customs, culture, and institutions of the Korean people.

• **KOR 200C - Intermediate Korean**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Korean; grammar review; vocabulary building; study of the customs, culture, and institutions of the Korean people.

• **KOR 300A - Advanced Korean**

(4)

Prerequisite: KOR 200C. Advanced study of Korean with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **KOR 300B - Advanced Korean**

(4)

Prerequisite: KOR 200C. Advanced study of Korean with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **KOR 300C - Advanced Korean**

(4)

Prerequisite: KOR 200C. Advanced study of Korean with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

• **KOR 395 - Korean in Community Service**

(1-6)

Prerequisite: KOR 300C. Approval of departmental faculty advisor in consultation with EPIC director, acceptance by community agency. Participation in work of a community agency or program utilizing communication skills in Korean. May be repeated to maximum of 6 units. Graded CR/NC.

• **KOR 397 - Field Work in Korean**

(1-6)

Prerequisite: KOR 300C. To be established by coordinator in consultation with host organizations. Field work and internships in occupations in which communication skills in Korean can be used and perfected. May be repeated to maximum of 6 units. Graded CR/NC.

- **LATN 354 - Special Topics in Latin**

(1–4)

Prerequisite: As needed for specific topic. Topics of special interest to students of Latin as announced in Schedule of Classes. May be repeated to maximum of 8 units for credit.

Latin American Studies (Undergraduate)

All 400-level courses listed in the undergraduate major, general option, may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: LAS 497AB.

- **LAS 102 - The African Diaspora in the United States**
(also listed as PAS 102)

(4)

Diversity among the varied people of African descent in the United States and their relation to the dominant society. GE D

GE D ; Approved diversity course

- **LAS 108 - Comparative Ethnic Studies**
(also listed as CHS, AAAS, PAS 108)

(4)

This survey course examines comparatively the notions of "race" and ethnicity, the exploitation based on these statuses, and the resulting resistance and multi-ethnic social movements in the U.S. and elsewhere.

- **LAS 140 - Introduction to Globalization, Race, and Place**
(also listed as AAAS 140 and PAS 140)

(4)

Explores the role of race in structuring social relations around the globe, with special focus on the globalization of discourses about race.

- **LAS 150 - Introduction to Latin American Studies**

(4)

A multidisciplinary introduction to the history, peoples, social structure, and geography of Latin America with emphasis on the formation of its diverse societies.

GE D ; Approved diversity course

- **LAS 255 - Diverse Latin American Populations in Southern California**
(also listed as CHS 255)

(4)

The formation of and differences among the varied Latin American people in the Southern California region and their participation in contemporary society.

GE D ; Approved diversity course

- **LAS 320 - Mesoamerican Civilization**
(also listed as ANTH/ART/CHS/HIST 320)

(4)

This is an interdisciplinary course that critically examines Mesoamerica as a civilization, with an emphasis on art, archaeology, literature, and cultural history.

- **LAS 335 - Race and Culture in the Americas**
(also listed as CHS 335)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Comparative study of race and ethnicity as expressed in the arts and culture of Latin America, the Caribbean and the United States.

GE Theme H ; Approved diversity course

- **LAS 342 - Cultural Impact of Development**
(also listed as PAS 342)

(4)

Prerequisites: Completion of G.E. Basic Subjects (Block A) and one course from Block C. Impact of colonialism, neocolonialism and globalization on art, literature, music and identity in developing countries.

GE Theme A ; Approved diversity course

- **LAS 360 - Dynamics of Change in the Developing World**
(also listed as PAS and POLS 360)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Case studies illustrating why the Third World came into being and how it is changing in the context of the globalized world economy.

GE Theme A ; Approved diversity course

- **LAS 395 - Community Service in Latin American Studies**

(1-4)

Prerequisites: Approval by departmental faculty adviser, acceptance by a community agency. Participation as a volunteer in work of a community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. May be repeated to maximum of 9 units.

- **LAS 404 - The Central American Experience in the US**
(also listed as CHS 404)

(4)

Prerequisite: CHS 111 or CHS/LAS 255. Aspects of the Central American experience in the U. S. with emphasis on the transnational connections between the countries of origin and the communities of residence in the U. S.

- **LAS 423 - Migration, Identity, and Religion**
(also listed as CHS 423 and RELS 423)

(4)

Examines the role of Theology of Liberation and Evangelical Christianity in the lives of Mexicans and Latin Americans in their home countries as well as immigrants in the US.

- **LAS 424 - The United States and Latin America**

(4)

Examination and analysis of relations between the U.S. and Latin American nations; the inter-American system.

- **LAS 425 - Latin American Responses to Imperialism and Globalization**

(4)

The impact upon Latin America of U.S. world hegemony and the process of globalization and Latin American response to these forces. Major international issues confronting Latin America.

- **LAS 430 - Cuba and the World**

(4)

An overview of Cuban society, politics and popular culture as well as its situation in the world.

- **LAS 449 - Anthropology of Race and Racism**

(also listed as ANTH 449, AAAS 449, and CHS 449)

(4)

This course examines the anthropological ideas of race, its emergence, and its relationship to the constructions of racism and racializations in comparative settings and in contemporary situations.

- **LAS 450 - Special Studies in Latin American Studies**

(1-4)

Prerequisites: Upper division standing, others as needed for specific topic. Selected topics in Latin American Studies differ each quarter; examined in manner of undergraduate seminar; individual readings, written/oral reports, discussion. Repeatable to maximum of 12 units as subject matter changes.

- **LAS 465 - Gender, Sexuality, and Transnational Migration**

(also listed as CHS 465 and WOMN 465)

(4)

Explores international migration through the lens of gender and sexuality. Interdisciplinary examination of perspectives on socio-economic and legal issues affecting the lives, identities, and narratives of transnational (im)migrants.

- **LAS 470 - Labor and Social Movements in the Americas**

(4)

A theoretical and historical overview of labor and social movements in the Americas with an emphasis on 1945 to the present. Four hours of lecture/discussion; service learning option.

- **LAS 482 - Latin American Women's Movements**

(also listed as CHS 482 and WOMN 482)

(4)

Examines Latin American women's movements and feminist organizing in the U.S., Mexico, Central America, South America and the Caribbean.

- **LAS 497A - Interdisciplinary Approaches to Latin American Studies**

(4)

Prerequisites: LAS 150, Satisfactory completion of the Graduate Writing Assessment Requirement (GWAR). Reading ability in Spanish or Portuguese. Changing perspectives and varied methodological approaches to Latin America over the past five decades; selection of research topic; bibliography preparation.

• **LAS 497B - Research and Writing on Selected Latin American Topics**

(4)

Prerequisite: LAS 497A. Senior course. Development of research skills and paper in English on topic selected in LAS 497A.

• **LAS 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and final report submitted. May be repeated for credit.

Latin American Studies (Graduate)

All 400-level courses listed in the undergraduate major, general option, may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: LAS 497AB.

Classified graduate standing is required for admission to all 500-level courses.

• **LAS 508 - Seminar: Latin American Social Systems**

(4)

Recommended prerequisites: ANTH 404 or 408, reading competence in Spanish or Portuguese. Analysis of selected aspects of contemporary Latin American social systems. May be repeated for credit.

• **LAS 590 - Interdisciplinary Seminar: Latin American Studies**

(4)

Prerequisite: LAS 497AB. Interdisciplinary investigation and discussion of selected Latin American topics. May be repeated for credit.

• **LAS 596 - Comprehensive Examination**

(0)

See *Comprehensive Examination* in the requirements for the Masters Degree section.

• **LAS 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

• **LAS 599 - Thesis**

(1–9)

Prerequisites: Instructor consent to act as sponsor, approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded CR/NC.

Liberal Studies (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

• LBS 234 - Multicultural Arts, L. A.

(4)

Cultural, historical, social context for community/ municipal arts in L.A. (performance, visual, musical, literary). Emphasis on race, ethnicity, class, gender, sexuality, and youth. Attend performances/museums; discussion with artists/experts. Some course sections may offer a service learning option.

GE C2 ; Approved diversity course

• LBS 301 - Interdisciplinary Investigation

(4)

Prerequisite: ENGL 102. Principles and techniques of interdisciplinary problem solving, nature and limitations of knowledge, evaluation of evidence, strategy and methods of integrating materials drawn from different disciplines. Requires concurrent enrollment in LBS 302 for Liberal Studies majors.

• LBS 302 - Writing the Interdisciplinary Essay

(2)

Prerequisites: ENGL 102. Principles and techniques of interdisciplinary research, critical analysis, and writing. Requires concurrent enrollment in Liberal Studies 301.

• LBS 360 - Interdisciplinary Approaches to Culture and Society

(4)

Prerequisite: LBS 301 and LBS 302. Examination of interdisciplinary modes of cultural and social inquiry. Introduces concepts, theories, and methods of cultural analysis. Application to historical or contemporary issues and problems of diversity and everyday life.

• LBS 386 - Gender in Science

(4)

Prerequisites: Completion of GE Basic Subjects (Block A) and at least one course each from Blocks B, C, and D. Interdisciplinary exploration of scientific conceptions of gender and the effects of gender ideology on the history of science from the Scientific Revolution to the present.

GE Theme C

• LBS 390 - Race, Class, and Gender in the Classroom

(4)

Prerequisites: LBS 301 and LBS 360, or permission from instructor. Critical examination of the effects of race, ethnicity, socioeconomic class, and gender as they are experienced in educational settings. Emphasis on the cultural reproduction of values in the learning process.

• LBS 395 - Sociocultural Impact of Globalization for the Developing World (Also listed as COMM 395)

(4)

Prerequisite completion of the lower division GE Basic Subjects, and at least one course each from Blocks B, C, and D. Critical examination of globalization and its economic, political, and sociocultural challenges for the developing world. Emphasis on globalizing institutions, transborder flows, international communication, social change, and cultural identity.

GE Theme A

• **LBS 410 - National Identity, Race, and Popular Culture**

(4)

Prerequisite: LBS 301. Interdisciplinary focus on the formation of national identities; examines relationship between race, national identity and popular culture through fiction, film, music, consumerism, and cultural institutions such as written media, schools, and museums.

• **LBS 420 - Science, Culture, and Representation**

(4)

Prerequisite: LBS 301. Interdisciplinary study of how science is represented in cultural texts—such as literature, film, and TV; also an emphasis on scientific texts as literature to examine how culture is embedded in science.

• **LBS 422 - Asian Americans in Science and Literature**
(also listed as AAAS 422)

(4)

Prerequisites: ENGL 102, upper division standing. Interdisciplinary exploration of how Asians have been represented - and how Asian Americans have represented themselves - in relation to science and technology.

• **LBS 454 - Selected Topics in Liberal Studies**

(1–4)

Prerequisites: Upper division standing, and others as needed for specific topic. Intensive study of selected topic from interdisciplinary perspective; subjects vary. May be repeated to a maximum of 8 units for credit.

• **LBS 460 - Cultural Studies: Theories and Methods**

(4)

Prerequisite: LBS 360. Theories and methods of Cultural Studies as an interdisciplinary mode of social inquiry. Overview of historical, theoretical, and methodological underpinnings. Exploration of cultural identity, struggle, and representation.

• **LBS 489 - Senior Project**

(4)

Prerequisites: Satisfactory completion of the graduation writing assessment requirement (WPE/GWAR), LBS 360, senior standing. Advanced principles and techniques of interdisciplinary research, including research and methodology; supervised senior project. Requires concurrent enrollment in LBS 490.

• **LBS 490 - Proseminar in Liberal Studies**

(4)

Advanced interdisciplinary study of structure and practice of knowledge at key institutional sites such as the family, school, media, and arts; and government. Requires concurrent enrollment in LBS 489.

- **LBS 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Instructor consent to act as sponsor, approval of coordinator, minimum 2.5 grade point average. Projects must be approved before registration, progress meetings held regularly, and final report submitted. May be repeated for credit.

Library Course (Undergraduate)

- **LIBR 150 - Introduction to Information Literacy and Research Skills**

(1)

Develops effective and efficient skills for identifying, retrieving, and critically evaluating electronic, print, and Internet sources. Assists students in preparing information literate papers and presentations. Graded ABC/NC.

- **LIBR 230 - Intermediate Information Literacy and Research Skills for Lifelong Professional Success**

(2)

Explores how information is produced and used in professional settings. Designed to teach students research and critical thinking skills required to access, evaluate, synthesize and understand information for professional success and development. Graded ABC/NC.

- **LIBR 250 - Intermediate Information Literacy and Library Research Skills**

(2)

A practical and theoretical course offering students a framework for how information and knowledge is produced in society and organized by libraries and indexing systems. Designed to give students the technological skills and critical thinking abilities needed to access and use the printed and electronic information resources found in libraries and on the Internet; develop strategies for finding, evaluating, synthesizing and managing information. Graded ABC/NC

- **LIBR 330 - Advanced Information Literacy for Decision Making in the Professional World**

(4)

Advanced information literacy course that considers the role of information in a professional context. Using company, industry, legal and demographic information, research, analysis and decision-making in professional environments will be simulated and explored. Graded ABC/NC.

- **LIBR 430 - Legal Information Literacy**

(4)

Advanced information literacy course that considers the use and impact of different forms of legal information. Students will learn to analyze and evaluate legal information to determine meaning and relevancy. Graded ABC/NC.

Manufacturing Process and Automation (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 160 - Introduction to Metalworking**

(3)
Basic metal properties, metalworking processes, and hand and machine tool applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 360 - Modern Manufacturing**

(3)
Introduction to the practices and procedures used in modern manufacturing to bring a product to market. Review of industrial materials, processes, standards, safety, quality, and computer software used in manufacturing. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 361 - Welding Technology**

(3)
Prerequisite: TECH 160. Inert gas, oxyacetylene, and electric arc welding, cutting, brazing, and testing theory and practice. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 448 - Plastics Technology**

(3)
History, materials, processes, and application of plastics technology; principles and procedures of modern application in industry. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 460 - Manufacturing, Materials, and Processes**

(3)
Prerequisite: TECH 360. Materials and processes used in manufacturing. Processes to organize industrial activity as well as hard processes used to shape and form materials. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 462 - Digital Manufacturing**

(3)
Prerequisites: TECH 360, and 460. Development of basic skills needed to perform simulation construction in the virtual manufacturing environment with CNC, CAM, machining and robotics simulation. Lecture 1 1/2 hours, laboratory 4 ½ hours.

• **TECH 466 - Computer-Aided Manufacturing**

(3)
Prerequisites: TECH 360, 460, 462 Applications and theories of advanced production systems in automated manufacturing environments emphasis includes direct and computer numerical control, computer integrated manufacturing CAD/CAM; flexible manufacturing; group technology. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

• **TECH 467 - Emerging Manufacturing Technologies**

(3)
Prerequisites: TECH 360, 460, 462, 466. Variable content of manufacturing topics and processes. Special studies of diverse subjects such as Rapid Prototyping, Wire Electrical Discharge Machining (EDM), Advanced Computer-Aided Manufacturing, Automatic Data Collection and Identification Lecture 1 ½ hours, laboratory 4 1/2 hours.

Management (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400-level MGMT courses.

• **MGMT 306 - Operations Management**

(4)

Prerequisites: ECON 209. Management of the operations function of manufacturing and service firms including operations strategy, forecasting, process design and improvement, production and inventory management, supply-chain management, capacity planning and management, and quality assurance.

• **MGMT 307 - Management and Organizational Behavior**

(4)

Analysis of management process with emphasis on business environment; interpersonal and intergroup processes and relationships in organizations.

• **MGMT 308 - Business Responsibilities in Society**

(4)

Discussion of the business person's responsibilities and obligations in contemporary society; principles and problem-solving techniques related to major social problems confronting business organizations; Business ethics and corporate social responsibility.

• **MGMT 440 - Career Development**

(4)

Career management theories, strategies and skills including career exploration, appraisal, self-assessment, professional development, and skill building essentials in interviewing, networking, socialization, and mentoring for self and others.

• **MGMT 454 - Special Topics in Management**

(1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific requirement. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

• **MGMT 460 - Case Studies in Operations Management**

(4)

Prerequisite: MGMT 306. Case studies used to illustrate product and process design, technology management, facilities design, location and layout, capacity and inventory management, and quality improvement in manufacturing and service firms.

• **MGMT 461 - Management Theory and Practice**

(4)

Prerequisite: MGMT 307. Undergraduate seminar covering development of theory of management through analysis and integration of fundamental relationships and principles; current and past practices analyzed in planning, organizing, directing, and controlling.

• **MGMT 462 - Comparative Management**

(4)

Prerequisite: Senior or graduate standing. Identification and analysis of management systems in differing national, functional, or institutional settings; impact of economic, social, political, and cultural variables on management systems; universality of management principles.

• **MGMT 463 - Process Design and Improvement**

(4)

Prerequisite: MGMT 306. Operations Management issues related to the utilization of physical, human resources, technological and other interlocking factors in determining and improving the ways of organizing and doing work in manufacturing and service companies.

• **MGMT 464 - Production and Inventory Management**

(4)

Prerequisite: MGMT 306. Design of information and decision systems for allocating resources and scheduling activities; development of conceptual structures guiding integrated production and inventory systems in manufacturing environments; introduction of computerized MRP systems.

• **MGMT 466 - Managerial Innovation**

(4)

Prerequisite: MGMT 307. Intensive investigation of managerial innovation through analysis of cases; determinants, strategies, and impact of invention, adoption and implementation of new techniques and approaches in managing organizations.

• **MGMT 467 - Quality Control**

(4)

Prerequisite: ECON 309. Control of quality of manufactured products by statistical methods; control charts for variables, fraction defective, defects per unit; acceptance sampling; single, double, and multiple sampling methods; sampling tables.

• **MGMT 468 - Small Business Management**

(4)

Prerequisite: Majority of Business Administration core courses. Use of case study methods to investigate and analyze problems related to business; emphasis is placed on service learning to apply business concepts. This course requires service learning.

• **MGMT 469 - Training and Development**

(4)

Principles, methods, and procedures for orienting, inducting, developing skill-building programs for training and educating/developing employees at all levels of business, governmental, and third sector organizations.

• **MGMT 470 - Managerial Leadership and Motivation**

(4)

Prerequisite: MGMT 307 or NURS 488. Nature, resources, strategies, and models of complex organizations; case analyses of process of managerial leadership, motivation, interpersonal relationships in work groups; impact on organizational effectiveness.

• **MGMT 471 - Employment Relations**

(4)

Prerequisite: MGMT 473. Principles, methods, and processes for creating and managing positive relationships with unionized and non unionized employees through legal compliance, effective labor relations, and managing diversity.

• **MGMT 472 - Supply Chain Management**

(4)

Prerequisite: MGMT 306. Principles, methods, and practices for managing effective supply chain in global business, including strategies for customer service, quality, logistics, inventory management, and integrated supply chain management.

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HELP

Course Filter

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Management (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400-level MGMT courses.

• MGMT 473 - Strategic Human Resource Management

(4)

Prerequisite: MGMT 307. Principles, methods, and procedures in developing and managing the human resource function; including planning, legal compliance, job analysis, recruitment, selection, training and development, compensation, and employment relations.

• MGMT 474 - Compensation Management

(4)

Prerequisite: MGMT 473. Theory and practices of wage and salary administration: job analysis and preparation of job descriptions, use of job evaluation scales, establishment of pay systems, performance appraisal, and additional compensation techniques.

• MGMT 475 - Current Topics and Cases in Human Resource Management

(4)

Prerequisite: MGMT 473. Application of human resource management principles through case analyses and current readings related to human resource planning, recruitment, selection, compensation, employment relations, and other human resource functions.

• MGMT 476 - Talent Management

(4)

Prerequisite: MGMT 473. This course provides an overview of how to effectively develop a talent management strategy. Drawing from real-world company insights, the course will focus on exploring best practices and innovative approaches to talent development and fostering a talent-building culture across the organization. Students will learn how a company can improve its ability to attract, develop, evaluate, and retain the right talent. Lecture 4 units

• MGMT 477 - Staffing

(4)

Prerequisite: MGMT 473. Principles, methods and procedures for analyzing the staffing process, including human resource planning, job analysis, internal and external recruiting, selection methods, and final selection decisions.

• **MGMT 478 - Financial Management of Health Care Institutions**

(4)

Financial management decision-making in health care institutions with emphasis on techniques of budget development. Some sections of course may be technologically mediated.

• **MGMT 479 - Seminar: Business in Its Social Setting**

(4)

Prerequisite: MGMT 308 or graduate standing. Analytical interdisciplinary investigation of evolution of contemporary status of business relative to dynamic forces: social, political, legal, environmental and economic.

• **MGMT 481 - International Human Resource Management**

(4)

Prerequisite: MGMT 473. Examination of human resource management activities in an international environment Emphasis on challenges and issues related to managing human resource activities in global businesses, and adapting to local cultures.

• **MGMT 483 - Managing Human Resource Information Systems**

(4)

Prerequisite: MGMT 473. Management principles related to understanding the human resource manager's role in planning, designing, and implementing human resource information systems to enhance human resource activities including staffing, selection, and training.

• **MGMT 484 - Organization Development and Change**

(4)

Prerequisite: MGMT 307. An in-depth understanding of organization development and change. Topics include managerial roles, diagnosis intervention design, change management, and evaluation. Emphasis is placed on implementing interventions in diverse contexts.

• **MGMT 485 - Project Management**

(4)

Project management theories for planning and controlling resources to accomplish complex projects; case analyses from business and nonprofit organizations; exercises with selected project management software.

• **MGMT 489 - High Performance Management**

(4)

Prerequisite: MGMT 307. Focus on managerial skills, performance context conceptual understanding and self-assessment; in depth skill-learning, analysis, practice, and application including: creative and critical thinking, managing conflict, and building effective teams.

- **MGMT 490 - Service Management**

(4)

Prerequisites: MGMT 306 and 307. Design and management issues in high-contact services: process design, capacity and quality management, and human relations; lectures and readings cover theoretical material, and case studies provide applications.

- **MGMT 497 - Capstone: Global Strategic Management**

(4)

Prerequisite: Undergraduate Business Administration core requirements. Integration of business knowledge developed in core courses; interdisciplinary exposure to complex executive decisions in business, including global strategy under conditions of uncertainty.

Management (Graduate)

Classified graduate standing and approval by the College of Business and Economics Graduate Programs Office are required for admission to all 500-level courses.

- **MGMT 500 - Management**

(4)

Planning, organizing, leading and coordinating for achieving organizational goals. ; managing operations and organizational behavior; techniques for improving decisions, communications and quality; business responsibilities; ethics. Some sections may be technologically mediated.

- **MGMT 554 - Special Topics in Management**

(1– 4)

Current topics of special interest in management, as announced in Schedule of Classes. May be repeated for credit.

- **MGMT 560 - Seminar: Strategic Planning**

(4)

Development of comprehensive business strategy and long-range plans with consideration for the social, economic, political, and technological environments; current strategic principles and practices; analysis of planning processes and systems.

- **MGMT 565 - Health Care Marketing Management**

(4)

Methods used by health care providers to forecast needs for specific health services in their communities; hospital marketing strategies and cases; special problems and issues in marketing health care services. Some sections of the course may be technologically mediated.

- **MGMT 571 - Cases in Health Care Management**

(4)

Cases involving payment systems, regulation, competition, organizational integration, legislation and legal precedents, health insurance, prevention, and managing ethical dilemmas. Some sections of the course may be technologically mediated.

- **MGMT 572 - Seminar: Power and Politics in Organizations**

(4)

Analysis of power and politics in organizations; sources determinants, strategies, impact on organizational decision making and effectiveness; implications for management. Case material and selected readings.

• **MGMT 573 - Seminar: Human Resource Management**

(4)

Selected problem areas focusing on policies, techniques, and legal and social restrictions in areas of recruitment, selection, training, compensation, and occupational health and safety.

• **MGMT 574 - Seminar: Managing Employee Motivation and Work Behavior**

(4)

Manager's function in leading, directing, motivating work behavior; research of cases of management processes relating to organizational behavior, growth, effectiveness.

• **MGMT 576 - Seminar: Managing Health Care Organizations**

(4)

Management processes and concepts as applied in health care organizations; issues in organizing, controlling, and changing health care services with emphasis on the aging population, long term and managed care. Some sections of the course may be technologically mediated.

• **MGMT 577 - Seminar: International Business Management**

(4)

Nature, environment, resources, strategies, and models of international business organization; analysis of managerial functions performed by international business managers; case studies pertaining to management in an international context.

• **MGMT 578 - Financial Management of Health Care Organizations**

(4)

Financial management in health care organizations, introducing the financial concepts, issues, and tools needed to manage a health care organization; emphasis on budgeting, financial statement analysis, and managerial decision-making.

• **MGMT 579 - Managing the Managed Health Care Organization**

(4)

Concepts and management challenges of managed health care organizations such as health maintenance organizations (HMOs), preferred provider organizations (PPOs), commercial health insurance companies; provider organizations; integrated delivery systems (IDSs). Some sections of the course may be technologically mediated.

• **MGMT 588 - Seminar: New Venture Management**

(4)

Assessment of business opportunities and competitive environments. Issues in designing and building management systems to produce and deliver a product or service. Dimensions of launching a business and managing long-term growth.

- **MGMT 593 - Applied Research Methods in Management**

(4)

Overview of research methods applicable to management and health care management; research designs for qualitative and quantitative studies; reporting applied research to help managers make decisions. Some sections of the course may be technologically mediated.

- **MGMT 595 - Advanced Field Study**

(1–6)

Independent, supervised field experience in an applied area of business or health care management. Weekly tutorial sessions required for student-teacher synthesis of learning from course work and field experience. Graded CR/NC.

- **MGMT 598 - Graduate Directed Study**

(1)

Investigation of an approved project leading to a written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Marketing (Undergraduate)

Upper division standing is prerequisite to enrollment in 300- and 400-level MKT courses

- **MKT 304 - Principles of Marketing**

(4)

Introduction to an organization's marketing environment, consumer behavior, market research and strategies for product planning pricing, distribution, and promotion of goods and services. Some sections may be technologically mediated.

- **MKT 325 - High Performance Professional Skills**

(4)

Prerequisite: MKT 304. Skills, performance context, conceptual understanding, self assessment, analysis, and application in negotiation, creativity, critical thinking, diversity management, and team-building in marketing, international business, retailing and entrepreneurship.

- **MKT 340 - Principles of Advertising**

(4)

Prerequisite: MKT 304. Marketing and economic functions of advertising; survey of roles played by clients, agencies, advertising departments, media, and auxiliary organizations in field.

- **MKT 341 - Salesmanship**

(4)

Prerequisite: MKT 304. Fundamentals of selling and sales management; concentration on sales techniques with student presentations of critiques and analyses; procedures for selection, training, compensation, and supervision of sales personnel.

- **MKT 342 - Consumer Behavior**

(4)

Prerequisite: MKT 304. Reactions of consumer to promotional activities of retailers; concepts of consumer strategy and tactics; importance of product image, brand, package influence, and store image in influencing consumer purchases.

• **MKT 344 - Principles of Retailing**

(4)

Structure of retailing industry; retailing trends; retail store organization; understanding retail consumers; store location, design, and layout; basic fundamentals of operating a retail business; retail controls and evaluation.

• **MKT 346 - Marketing of Services**

(4)

Prerequisite: MKT 304. Marketing of services including promotion and pricing practices and strategies; practices of franchising and specific services sectors.

• **MKT 349 - Retail Merchandising and Sales Promotion**

(4)

Prerequisite: MKT 304. Analysis of merchandising and sales promotion functions performed by retailers; covers market segmentation, merchandising policies, budgeting, buying, inventory management, and pricing; emphasis on retail promotional planning, implementation, and evaluation.

• **MKT 358 - International Business**

(4)

Business conducted within a world environment; transactions comprising international business; institutional setting abroad; scope of managerial decision-making in international business operations.

• **MKT 365 - Community Based Social Marketing**

(4)

Prerequisite: MKT 304 or consent of instructor. Applies the marketing process to enable exploring, building, and developing community based programs. Considers business, non-profits and government utilization of marketing to engage and shape community behaviors for collective good.

• **MKT 380 - Introduction to Social Media Marketing**

4

Prerequisite: MKT 304 or consent of instructor. Surveys usage of social media tools and technology for marketing purposes. Studies the relevance and importance of these tools to new and emerging marketing processes. Some Sections may be Technologically Mediated.

• **MKT 389 - The Syntax of Social Media**

4

Prerequisite: MKT 380 or consent of instructor. Applied course that studies syntax in a social media context. Examines how marketers use verbal and visual content to convey value, build brands, and connect with customers. Some Sections may be Technologically Mediated.

• **MKT 420 - Search Engine Marketing and Web Analytics**

4

Prerequisite: MKT 380 or consent of instructor. Considers the tools, techniques and technology related to online search activities. Examines the role of search in e-marketing and e-commerce strategies and importance of analytical tools to gauge effectiveness. Some Sections may be Technologically Mediated.

• **MKT 421 - Mobile Marketing Strategy and App Development**

4

Prerequisite: MKT 380 and consent of instructor. Focused on the development and creation of strategic marketing plans and mobile apps for mobile device users with the intent to engage in connected, location-based mobile marketing strategy. Some Sections may be Technologically Mediated.

• **MKT 440 - Advanced Advertising and Promotion**

(4)

Prerequisite: MKT 340. In-depth review of advertising and promotion management; emphasis on strategic decision-making through case study analyses; supplemental topic areas include sales promotion, agency/client relations, and measurement/evaluation techniques.

• **MKT 442 - Marketing Management**

(4)

Prerequisite: MKT 304. Intensive study of marketing management; emphasis on marketing environment; development of marketing strategies and formulation of policies; integration of marketing with other functional areas of business through case studies.

• **MKT 443 - Marketing in a New Business**

(4)

Prerequisite: MKT 304. Introduction of a new business or product concept into marketplace; emphasis on small business marketing entrepreneurship.

• **MKT 446 - Marketing Research**

(4)

Prerequisites: MKT 304 and ECON 209. Marketing research functions and procedures utilized in measuring and analyzing environmental factors in consumer demand, sales efficiency, effectiveness of promotional programs, and effects of competitor's strategies; methods of product distribution and pricing research. Projects emphasize current marketing research techniques.

• **MKT 447 - Business Consulting**

(4)

Prerequisite: Majority of upper division Business Administration core courses. Analytic, administrative, and communicative aspects of consulting and counseling processes; application of functional knowledge and skills to consultation.

• **MKT 448 - Mail Order/Direct Response Marketing**

(4)

Prerequisite: MKT 304. The growing direct marketing industry: catalogs, direct mail, broadcast and print media, and telemarketing; strategic applications in marketing/promotions plans of existing and entrepreneurship business situations.

- **MKT 453 - Marketing for Nonprofit Organizations**

(4)

Prerequisite: MKT 304. Relationship of marketing principles and marketing analyses to performance of nonprofit institutions in U.S. economy by use of case studies.

- **MKT 454 - Special Topics in Marketing**

(1–4)

Prerequisite: Varies with topics; see Schedule of Classes for specific requirement. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

- **MKT 455 - Proseminar: International Transportation**

(4)

Prerequisite: MKT 304. Use of ocean vessels, air transport, intermodal carriers, and foreign freight forwarders to move goods in our import/export trade; discussions of multimodal concept, documentation, and marine insurance.

- **MKT 456 - International Marketing Management**

(4)

Prerequisite: MKT 304. International marketing operations: product policies, pricing, advertising, distributional channels, marketing research; factors governing the decision to engage in foreign transactions. In-depth market studies.

- **MKT 457 - Import-Export**

(4)

Prerequisite: MKT 358. Import-export operations: organization, regulation, terms of access, documentation, shipment and financing involved with international movement of merchandise; trade patterns by countries and commodities.

- **MKT 459 - Intercultural Business Communication
(also listed as SPCH 459)**

(4)

Prerequisite: BUS 305 or SPCH 300. Analytical approach to understanding cultures in order to do business effectively. Steps in achieving intercultural communication competence, framework for understanding cultures, nonverbal communication, document organization from cultural priorities, and negotiation.

- **MKT 460 - Internet Marketing**

(4)

Prerequisite or corequisite: MKT 304. Integration of Internet marketing into an organization's overall marketing effort; covers Internet research, consumer behavior, and marketing mix strategy development and execution; coordination with other e-commerce applications.

• **MKT 462 - Internet Marketing Research**

(4)

Prerequisite: MKT 304, concurrent enrollment or CIS 405A. How to acquire, store, distribute, analyze and use electronic information to make strategic and operational marketing decisions and incorporate and manage marketing information systems and technology in organizations.

• **MKT 465 - Entertainment Marketing**

(4)

Prerequisite: MKT 304 or consent of instructor. Examination of marketing concepts, challenges, and trends in the entertainment environment. Topics include history, economics, and marketing strategy utilized in entertainment business. Some sections may be technology mediated.

• **MKT 470 - Marketing Analytics**

(4)

Prerequisite: MKT 304, ECON 309. Examination of market analysis concepts and tools for strategic/tactical marketing decision-making and marketing intelligence. Topics include: customer data analytics tools, and strategic report generating. Some sections may be technology mediated.

• **MKT 480 - Social Media Marketing Strategy**

4

Prerequisite: MKT 380 or consent of instructor. Examines tactical and strategic process and activities necessary for utilizing social media to engage customers and develop markets. Emphasis placed on measuring and tracking effectiveness of social media marketing strategies. Some Sections may be Technologically Mediated.

• **MKT 483 - Social Media and Entrepreneurship**

4

Prerequisite: MKT 380 or consent of instructor. Hands-on course engaging students in the strategic use of social media and online connectivity. Examines and utilizes social media in developing entrepreneurial new businesses. Some Sections may be Technologically Mediated.

• **MKT 484 - Contemporary Topics in Social Media Marketing**

4

Prerequisite: MKT 380 or consent of instructor. Contemporary topics of special interest enabling in-depth investigation, analysis and application of emerging social media marketing issues as they relate to digital consumer and the marketplace. Some sections may be technologically mediated.

• **MKT 488 - Pricing**

(4)

Prerequisite: MKT 304. Theory and practice of conceptual and op rational pricing conflicts between economists, accountants, and marketers. Marketing Pricing Strategies through cases and problems. Some sections may be technology mediated.

Marketing (Graduate)

Classified graduate standing and approval by the College of Business and Economics Advisement Center are required for admission to all 500- level

courses.

• **MKT 500 - Marketing Principles and Concepts**

(4)

Understanding the researching, planning, developing, implementing, and controlling of marketing management plans and strategies relative to environmental factors, consumer behavior and organizational behavior. Some sections may be technologically mediated.

• **MKT 540 - Seminar: Marketing Communication**

(4)

Strategic promotional variables considered individually and in combination to communicate want-satisfying attributes of products and services in the most effective and efficient manner.

• **MKT 543 - Seminar: International Marketing**

(4)

Planning and implementing international marketing programs including those of multinational corporations; micro and macro marketing implications of economic development; consumer behavior, market research and strategy in other cultures.

• **MKT 544 - Seminar: Consumer Behavior**

(4)

Interdisciplinary study about how consumers behave in the marketplace; the objective is to understand, explain, and predict consumers' actions under a variety of market conditions.

• **MKT 545 - Seminar: New Venture Marketing**

(4)

Strategies for introducing new ventures, products, services, and businesses from conception of the idea through market testing to introducing the product/service successfully into the marketplace.

• **MKT 546 - Seminar: Marketing Research**

(4)

Prerequisites: ECON 309; MKT 304; BUS 501. Role of marketing research in making marketing decisions and planning and implementing marketing research projects; state-of-the-art marketing research tools and techniques and their applications.

• **MKT 547 - Seminar: Retail Management**

(4)

Policies, problems, and opportunities in today's complex and dynamic retail environment; procedures for interrelating, planning, and implementing retail strategy involving marketing, management, and financial tools and theory.

• **MKT 560 - Internet Marketing**

Prerequisite: BUS 513 or consent of instructor. Integration of Internet marketing into an organizations overall marketing effort. Topics include customer interface, experience and relationship, Internet marketing matrix development and execution.

- **MKT 565 - Community Based Social Marketing Management**

(4)

Prerequisite: BUS 513 or consent of instructor. Explores building, developing, and managing community based social marketing tactical / strategic programs. Explores business, non-profit and government utilizing marketing management processes to engage and shape community behaviors for collective good.

- **MKT 574 - Marketing Management Consulting**

(4)

Prerequisite: BUS 513 or consent of instructor. Provides excellent grounding for students planning consulting and marketing careers. Topics include marketing management consulting skills utilized in Big 4 Consulting. Core skills covered in this class include: marketing strategy/execution, process/problem solutions, and proposal development.

- **MKT 598 - Graduate Directed Study**

(1)

Investigation of an approved project leading to a written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Mass Communication (Undergraduate)

- **MSCM 100 - Introduction to Mass Media**

(4)

Introduction to book, newspaper and magazine publishing, motion pictures, broadcasting, and new information technologies examined in terms of communication theory and as economic, political, and social institutions.

Math (Undergraduate)

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 091, 100, 102, 103, 104A, 104B, 109, 206, and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 103, 104A, 109, 242. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP). Exemption is good for one year from high school graduation for placement purposes.*

- **MATH 054 - Special Topics at the Precollegiate Level**

(1-8)

Selected topics in remedial mathematics with varying delivery methods. No credit towards baccalaureate degree. Graded CR/NC.

- **MATH 089 - Introduction to Algebra**

(4)

*Required of students scoring 29 or less on the ELM unless exempt. Fractions, signed numbers, measurement geometry, absolute value, simplifying algebraic expressions, linear equations and inequalities. Graded CR/NC. Students with CR or two NC grades for this course may not enroll again. No credit towards baccalaureate.

**The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• MATH 090 - Elementary Algebra

(4)

*Prerequisite: Score of 30-41 on the ELM or credit in MATH 089. Introductory algebra including straight lines; graphing; systems of equations and polynomial operations; exponents, and factoring. Graded ABC/NC. Students with CR or two NC grades for this course may not enroll again. No credit towards baccalaureate.

**The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• MATH 091 - Intermediate Algebra

(4)

*Prerequisite: MATH 090 or a score of 42-49 on the ELM. Polynomial, rational and radical expressions; quadratic equations, circles, functions, exponents and an introduction to counting principles. Graded ABC/NC. Students with CR or two NC grades for this course may not enroll again. No credit towards baccalaureate.

**The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• MATH 100 - Introduction to College Mathematics

(4)

*Prerequisites: Score of 50 or more on ELM; or MATH 091 with minimum C grade. Introduction to mathematical methods and reasoning, including logic, sets and set operations, combinatorics and probability, descriptive statistics, normal distribution, and margin of error. No credit toward mathematics or computer science majors. Graded ABC/NC

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• MATH 102 - College Algebra

(4)

*Prerequisite: Score of 50 or more on ELM or MATH 091 with a minimum C grade. Algebraic expressions, equations, and inequalities; functions; exponential and logarithmic functions; permutations, combinations, binomial theorem, and basic probability. Graded ABC/NC

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• MATH 104A - Precalculus: Algebra

(4)

*Prerequisite: Score of 50 or more on (or exemption from) ELM or MATH 091 with a minimum C grade or satisfactory score on placement examination. Functions, Exponential and logarithmic functions; polynomials and rational functions; systems of linear equations and matrices; sequences and series including arithmetic and geometric series.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109,*

204, 206 and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.

• **MATH 104B - Precalculus: Trigonometry**

(4)

*Prerequisite/corequisite: MATH 104A with a minimum C grade or satisfactory score on placement examination. Trigonometric functions, identities, and equations; solution of triangles; inverse trigonometric functions; complex numbers, DeMoivre's Theorem; parametric equations; polar coordinates; conic sections.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242.*

• **MATH 105 - Introduction to Mathematical Models in Biology**

(4)

*Prerequisite: Math 104A with minimum grade of C or satisfactory score on Math 104A exit exam. Rudimentary knowledge of Microsoft Excel. Sinusoidal, exponential and logarithmic functions in a biological context. Formulation and analysis of basic discrete models in biology. Basic probability, including conditional probability and independence. Eigenvalues and eigenvectors of matrices. Intended for life-science majors.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242.*

• **MATH 109 - Quantitative Reasoning with Statistics** (also listed as ECON 109)

(4)

*Prerequisite: Completion of remediation, if required, or score of 50 or above on ELM requirement.

Principles of quantitative reasoning, data presentation, descriptive statistics, correlation, probability, distributions of random variables, sampling distributions, interval estimation, and statistical inference, with multi-disciplinary applications. Graded ABC/NC **GE A4**

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 104A and 109. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP) exemption is good for one year from high school graduation for placement purposes.*

• **MATH 110 - Foundations of the Real Number System for Elementary and Middle School Teachers**

(4)

Prerequisite: Completion of remedial mathematics, if required, or exemption from the ELM requirement. Integers and elementary number theory, rational numbers, decimals and percent, ratio and proportion, alternate bases, and word problems. Restricted to students in multiple subjects credential programs. This course does not fulfill the General Education A-4 requirement. Graded ABC/NC

• **MATH 115 - Elements of Algebra and Statistics for Elementary and Middle School Teachers**

(4)

Prerequisites: Math 110. Functions, relations, sequences, discrete structures, probability, data analysis, and descriptive statistics. Restricted to students in multiple subjects credential programs. Graded ABC/NC.

• MATH 154 - Selected Topics in Mathematics

(1– 4)

Prerequisite: Completion of remediation, if required, or score of 50 or more on ELM. Other prerequisites as needed for specific topics. Current topics of interest to students in Mathematics as announced in the Schedule of Classes. May be repeated for credit as subject matter changes. Graded CR/NC.

• MATH 204 - Applied Calculus I

(4)

*Prerequisite: MATH 105 with minimum grade of C or satisfactory score on entrance exam for MATH 204. Limits, continuity, derivatives, discrete models and their stability, extrema, long-term behavior of systems, approximation, Newton's method, with a focus on applications in biology.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242.*

• MATH 204P - Applied Calculus I: Workshop

(1)

Activity for MATH 204 with focus on problem solving and applications. Recommended for all students, but mandatory for those with grade below B- in any prerequisite for MATH 204 or those repeating MATH 204.

• MATH 205 - Applied Calculus II

(4)

Prerequisite: MATH 204 with minimum grade of C.

Integration methods, definite and indefinite integrals, numerical, graphical and exact methods for solving basic differential equations, analysis of stability of equilibria of systems, with a focus on applications in biology.

• MATH 205P - Applied Calculus II: Workshop

(1)

Activity for MATH 205 with focus on problem solving and applications. Recommended for all students enrolled in MATH 205, but mandatory for those with grade below B- in Math 204 or those repeating MATH 205.

• MATH 206 - Calculus I: Differentiation

(4)

*Prerequisites: MATH 104A and 104B, each with a minimum C grade or satisfactory score on placement examination; students with a grade less than B- in either MATH 104A or MATH 104B must enroll concurrently in MATH 206P. Functions, graphs, limits, continuity, derivatives, antidifferentiation, and applications.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242.*

**C-ID MATH 210 and MATH 211 and MATH 900S

***The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• MATH 206P - Calculus I Workshop

(1)

Activity for Math 206 students with emphasis on problem solving. Concurrent registration in Math 206 required. Open to all Math 206 students but mandatory for students whose grade in Math 104A or Math 104B is less than B-. Graded CR/NC

• MATH 207 - Calculus II: Integration

(4)

Prerequisite: MATH 206 with minimum C grade; students with a grade less than B- in MATH 206 must enroll concurrently in MATH 207P. The definite integral, Fundamental Theorem of Calculus, transcendental functions, methods of integration, applications to physics and biology.

*C-ID MATH 210, MATH 211, MATH 220, MATH 221, and MATH 900S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• MATH 207P - Calculus II Workshop

(1)

Activity for Math 207 students with emphasis on problem solving. Concurrent registration in Math 207 required. Open to all Math 207 students but mandatory for students whose grade in Math 206 is less than B-. Graded CR/NC

• MATH 208 - Calculus III: Sequences, Series, and Coordinate Systems

(4)

Prerequisite: MATH 207 with minimum C grade; students with a grade less than B- in MATH 207 must enroll concurrently in MATH 208P. Limits of sequences and series, indeterminate forms, Taylor Series, plane coordinate systems, and change of coordinates.

*C-ID MATH 220 and MATH 221 also MATH 900S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• MATH 208P - Calculus III Workshop

(1)

Activity for Math 208 students with emphasis on problem solving. Concurrent registration in Math 208 required. Open to all Math 208 students but mandatory for students whose grade in Math 207 is less than B-. Graded CR/NC

• MATH 209 - Calculus IV: Several Variables

(4)

Prerequisite: MATH 208 with minimum C grade. Three-dimensional analytic geometry, partial differentiation, multiple integration, spherical and cylindrical coordinate systems, line integrals.

*C-ID MATH 230

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

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HELP

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Math (Undergraduate)

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 091, 100, 102, 103, 104A, 104B, 109, 206, and 242. The Entry Level Math (ELM) requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 103, 104A, 109, 242. The ELM exam scores are good for one year for placement purposes. The Early Assessment Program (EAP). Exemption is good for one year from high school graduation for placement purposes.*

• MATH 210 - Introduction to Computer Algebra Systems

(4)

Prerequisite: Math 206 with grade C or better. Introduction to computer algebra systems such as Mathematica, Maple or Matlab; overview of built-in functions; 2-D and 3-D graphs; animations; data manipulation; introduction to basic programming structures; user-defined functions.

• MATH 215 - Differential Equations

(4)

Prerequisite: MATH 209. Ordinary differential equations with concentration on methods of finding solutions; applications in science and engineering.

*C-ID MATH 240

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• MATH 225 - Explorations in Geometry for Elementary and Middle School teachers

(4)

Prerequisites: A college level mathematics course with a minimum grade C. Topics include properties of two and three dimensional figures, measurement, constructions, structure, spatial relationships, transformations, and graph theory presented through multiple teaching modes. No credit for mathematics majors.

• MATH 242 - Mathematics for Business and Economics Majors

(4)

*Prerequisites: MATH 104A with minimum C grade or satisfactory score on placement examination. Differential calculus with applications in

business and Economics; introduction to integral calculus.

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 100, 102, 104A, 104B, 105, 109, 204, 206 and 242.*

• **MATH 248 - Discrete Mathematics**

(4)

Prerequisite: MATH 207. Fundamentals of logic and set theory, counting techniques, relations, induction and recursion; graphs and trees.

• **MATH 253 - Foundations of Mathematical Structures for Teachers**

(4)

Prerequisite: MATH 104A. Vectors in two and three dimensions; dot and cross product, matrices; basis and subspaces; determinants, systems of linear equations and their solvability; inequalities and applications; ring, field and order properties of real and complex numbers; coordinate geometry, three dimensional geometry, non-Euclidean geometries. No credit toward coursework for the B.A. or B.S. degree in Mathematics.

• **MATH 254 - Selected Topics in Mathematics**

(1–6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics, as announced in Schedule of Classes. May be repeated for credit.

• **MATH 255 - Introduction to Linear Algebra**

(4)

Prerequisite: MATH 207. Vector spaces, linear transformations, linear equations, matrices, determinants, eigenvectors and eigenvalues, canonical forms.

*C-ID MATH 250

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **MATH 270 - Introduction to Probability and Statistics**

(4)

Prerequisites: MATH 208, MATH 248. Descriptive statistics, sample mean and variance, basic rules of probability, conditional probability, independence, random variables, special discrete and continuous distributions, expectation, central limit theorem. Application: Markov chains.

• **MATH 274 - Introduction to Statistics**

(4)

Prerequisite: MATH 104A. Graphical display of data, measures of variation, correlation, least-squares regression, design of samples and experiments, basic rules of probability, normal distribution, central limit theorem, sampling distributions, confidence intervals, hypothesis tests.

- **MATH 295 - Classroom Experiences in Teaching High School Mathematics**

(2)

Prerequisites: MATH 209. Effective teaching techniques, study of NCTM and California content standards and framework, connecting university-level mathematics to high school content together with practical experience. Early field experience course. Service learning required.

- **MATH 320 - Selected Topics in History of Mathematics**

(4)

Prerequisite or corequisite: MATH 207. Traces development of fundamental concepts and techniques in fields of algebra, geometry, trigonometry, and calculus.

- **MATH 325 - Mathematical Notation and Proof**

(4)

Prerequisite: MATH 208. Elementary set theory and number theory with emphasis on notation and types of proof. Axiomatic method, equivalence relations, $\epsilon - \delta$ arguments.

- **MATH 350 - Tutoring Experience for Prospective Teachers**

(2)

Prerequisite: MATH 209. Varying levels of tutoring assignments. Discussion of students' misperceptions, learning difficulties, effective teaching strategies and communication of mathematics. May be repeated once for credit. Graded CR/NC.

- **MATH 354 - Selected Topics in Mathematics**

(1–6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics as announced in the Schedule of Classes. May be repeated for credit.

- **MATH 390 - Technical Writing in Mathematics**

(2)

Prerequisites: MATH 325 with minimum C grade, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), concurrent enrollment in a 400-level MATH course (other than 402AB). Expository writing on mathematical topics selected by the instructor, including a technical report related to the 400-level course being taken concurrently.

- **MATH 398 - Cooperative Education**
(see UNIV 398)

(1–4)

Cooperative Education

- **MATH 401 - Differential Equations**

(4)

Prerequisites: MATH 209, 255, 325 with minimum C grade. Ordinary differential equations with concentration on properties of solutions, including existence and uniqueness. Emphasis on theory as opposed to applications.

• **MATH 402A - Advanced Mathematics I for Engineers and Physicists**

(4)

*Prerequisite: MATH 215 or 401. Vector analysis to include line and surface integrals, orthogonal curvilinear coordinates, complex variables to include contour integration and conformal mapping, Laplace transformation.

**All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.*

• **MATH 403 - Partial Differential Equations**

(4)

Prerequisite: MATH 215 or 401. Orthogonal sets of functions; Fourier series and integrals, with applications to the equations of mathematical physics; first order equations, Cauchy's method of characteristics.

• **MATH 410 - Vector Analysis**

(4)

Prerequisites: MATH 209, 255. Vector algebra and calculus, vector fields, gradient, divergence, curl, divergence theorem, Stokes' theorem, applications to geometry and mathematical physics.

• **MATH 420 - Mathematical Logic**

(4)

Prerequisite: MATH 325 with minimum C grade. The statement calculus, the predicate calculus, mathematical structures, and the deduction of valid consequences; the completeness theorem.

• **MATH 430 - Modern Geometry**

(4)

Prerequisite: MATH 325 with minimum C grade. Topics selected from advanced Euclidean geometry, non-Euclidean geometry, projective geometry. May be repeated once for credit with approval of instructor as subject matter changes.

• **MATH 435 - Topology**

(4)

Prerequisite: MATH 465. Introduction to point set topology, including continuity, product spaces, compactness, Tychonoff theorem, connectedness, metric spaces, and Urysohn lemma.

• **MATH 446 - Theory of Numbers**

(4)

Prerequisite: MATH 325 with minimum C grade. Divisibility, Euclidean algorithm, prime numbers, fundamental theorem of arithmetic, distribution of primes, congruences, Fermat-Euler and Wilson theorems, residues and quadratic reciprocity law. Bernoulli numbers, quadratic forms, Diophantine equations.

• **MATH 454 - Selected Topics in Advanced Mathematics**

(1–6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics, as announced in Schedule of Classes. May be repeated for credit.

• **MATH 455 - Modern Algebra I**

(4)

*Prerequisites: MATH 255, 325 with minimum C grade. Groups and rings, including normal subgroups, quotient groups, ideals, quotient rings, group and ring homomorphisms and isomorphisms.

**All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.*

• **MATH 456 - Modern Algebra II**

(4)

Prerequisite: MATH 455. Additional topics in groups and rings, field extensions, modules.

• **MATH 457 - Linear Algebra**

(4)

Prerequisites: MATH 325 with minimum C grade, and MATH 255. Vector spaces linear transformations, eigenvalues and eigenvectors, canonical forms, scalar product spaces.

• **MATH 463 - Introduction to Complex Analysis**

(4)

Prerequisite: MATH 465. Complex variables, analytic functions, complex integration, conformal mappings, applications.

• **MATH 465 - Advanced Calculus I**

(4)

*Prerequisites: MATH 209, 325 with minimum C grade. Real number system; topology of \mathbb{R}^n including compactness and completeness; sequences and series, including limit inferior and limit superior; continuity.

**All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.*

• **MATH 466 - Advanced Calculus II**

(4)

Prerequisite: MATH 465. Differentiation and integration of functions of a real variable; sequences of functions.

- **MATH 467 - Advanced Calculus III**

(4)

Prerequisites: MATH 255, 465. Functions of several variables; partial derivatives; generalized chain rule; inverse and implicit function theorems; line and surface integrals.

- **MATH 470 - Numerical Analysis I**

(4)

Prerequisites: MATH 208, 255, MATH 210 or CS 201. Errors in floating point representation, nonlinear equations, systems of linear equations, polynomial interpolation, numerical integration and differentiation.

- **MATH 471 - Numerical Analysis II**

(4)

Prerequisites: MATH 215, 470. Numerical solution of ordinary and partial differential equations, spline and least square approximation, fast Fourier transform.

- **MATH 472 - Linear Programming**

(4)

Prerequisite: MATH 255. Geometric solutions, simplex method, the transportation problem, elementary game theory.

- **MATH 474 - Theory of Probability**

(4)

Prerequisite: MATH 209. General probability spaces, random variables, joint distributions, random sampling, law of large numbers, normal, gamma, and binomial distributions.

- **MATH 475 - Introduction to Mathematical Statistics**

(4)

Prerequisite: MATH 474. Estimation and tests of hypotheses, decision theory and Bayes solutions.

- **MATH 480 - Modeling Biological Systems**

(also listed as BIOL 480)

(4)

Prerequisites: minimum grade of C in MATH 205B or in both MATH 215 and MATH 255. Modeling techniques applied to biological systems. Topics include nonlinear dynamics, stochastic models, compartmental and spatial models, parameter estimation, methods of model evaluation, modeling complexities.

- **MATH 484 - Graph Theory**

(4)

Prerequisites: MATH 248 and MATH 325 with minimum C grade. Introduction to graph theory and its applications: graphs, trees, and directed graphs; isomorphism; connectivity; network flows; Hamiltonian graphs; planar graphs; coloring problems; matchings; Ramsey theory.

- **MATH 490 - Senior Seminar in Mathematics**

(4)

*Prerequisites: MATH 248, 390, 455, and 465. Capstone course in mathematics including written and oral exposition and senior assessment exam.

**All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.*

- **MATH 495 - Mathematics Instruction at the College Level**

(2)

*Prerequisite: Graduate standing or permission of instructor. Teaching strategies and learning styles in lower division mathematics courses. Course organization; syllabus and exam preparation; instructional techniques; dealing with special problems; University policies and procedures. May be repeated for credit. Graded CR/NC.

**All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.*

- **MATH 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as a sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

- **MATH* 109 - Quantitative Reasoning with Statistics**
(also cross-listed as ECON 109)

(4)

Prerequisite: Completion of remediation, if required, or score of 50 or above on ELM requirement. Principles of quantitative reasoning, data presentation, descriptive statistics, correlation, probability, distributions of random variables, sampling distributions, interval estimation, and statistical inference, with multi-disciplinary applications. Graded ABC/NC

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 091, 100, 102, 103, 109, 206, and 242. The ELM requirement must be met before enrollment in MATH 089, 090, 091, 100, 102, 103, 109, 242. The ELM exam scores are good for one year for placement purposes.*

GE A4

Math (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.

Classified graduate standing is required for enrollment in 500-level courses.

- **MATH 502A - Applied Linear Analysis**

(4)

Prerequisites: MATH 215 or 401; 255; 410 or 467. Function spaces, convergence, inner product, bounded linear operators, integral operators and integral equations, adjoint operators, expansion in eigenfunctions, resolvent, kernel.

NOTE: All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465, 490, 495.

- **MATH 502B - Applied Linear Analysis**

(4)

Prerequisite: MATH 502A. Unbounded operators, differential operators of second order, Sturm-Liouville operators, eigenvalues and eigenfunctions, Green's Functions, and additional topics.

- **MATH 521 - Mathematical Modeling**

(4)

Prerequisite: MATH 210 (or equivalent programming experience), MATH 215 or 401, MATH 255, MATH 474, Recommended: MATH 403. Modeling techniques with difference and differential equations and stochastic models, with applications in fields such as biology, physics, and engineering.

- **MATH 522 - Optimization**

(4)

Prerequisite: MATH 210 (or equivalent programming experience), MATH 255, MATH 465. Selected topics from unconstrained, constrained, least squares, and parametric optimization.

- **MATH 530 - Topology**

(4)

Prerequisite: MATH 435. Basic concepts of point set topology: mappings, compactness, connectedness, separation properties, and metrization.

- **MATH 540A - Abstract Algebra I**

(4)

Prerequisite: MATH 455. Theory of groups, introduction to rings.

- **MATH 540B - Abstract Algebra II**

(4)

Prerequisite: MATH 540A. Theory of rings and fields.

- **MATH 550 - Seminar: Algebra**

(4)

Prerequisite: Approval of instructor. Readings and discussion of topics from group theory, ring theory, linear algebra, discrete mathematics, and combinatorics. May be repeated to maximum of 8 units with approval of graduate adviser.

- **MATH 551 - Seminar: Analysis**

(4)

Prerequisite: Approval of instructor. Readings and discussion of topics from real analysis, complex analysis, functional analysis, and applied analysis. May be repeated to maximum of 8 units with approval of graduate adviser.

- **MATH 552 - Seminar: Topology and Geometry**

(4)

Prerequisite: Approval of instructor. Readings and discussion of topics from general and algebraic topology, differential topology and geometry, and geometrical foundations. May be repeated to maximum of 8 units with approval of graduate adviser.

- **MATH 553 - Seminar: Applied Mathematics**

(4)

Prerequisite: Approval of instructor. Readings and discussions of selected topics in the field. May be repeated to maximum of 8 units with approval of graduate adviser.

- **MATH 559 - Mathematical Exposition**

(2)

Prerequisite: Completion of at least 12 units of 500-level courses. Students will select an advanced topic in mathematics with the instructor's approval, prepare an expository paper and give an oral presentation on this topic.

- **MATH 562 - Advanced Complex Analysis**

(4)

Prerequisite: MATH 463. Laurent series, singularities, residue problems, contour integration, conformal mappings, and additional topics.

- **MATH 570 - Numerical Linear Algebra**

(4)

Prerequisites: MATH 210 (or equivalent programming experience), MATH 470. Numerical solutions of linear systems of equations, and eigenvalue problems, direct solutions, interactive solutions, with additional topics in linear algebra as time permits.

- **MATH 571 - Numerical Solutions of Partial Differential Equations**

(4)

Prerequisites: MATH 210 (or equivalent programming experience), MATH 470. Numerical solutions of partial differential equations; finite-difference approximations, consistency, convergence, stability.

- **MATH 580 - Real Analysis**

(4)

Prerequisite: MATH 466. Theory of Lebesgue measure on the real line; theory of the Lebesgue integral and related convergence theorems.

• **MATH 584 - Advanced Probability Theory**

(4)

Prerequisite: MATH 580. Probability spaces; random variables; abstract probability integrals, moments, convergence theorems; distribution and characteristic functions; central limit theorems; dependence.

• **MATH 591 - Functional Analysis**

(4)

Prerequisites: MATH 435 or 530; 466. Banach spaces, Hilbert spaces, linear functionals and operators, spectral theory.

• **MATH 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **MATH 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent. Independent study of advanced topics in mathematics; regular conferences with instructor. May be repeated once.

• **MATH 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 4 units. Graded CR/NC.

Mechanical Engineering (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• **ME 101 - Mechanical Energy Production, Transmission, and Utilization**

(4)

Prerequisite: Math 104A or one year of high school Algebra. Engineering principles for non-engineering majors. Introduction to how Mechanical Engineers use natural sources of energy to produce, transmit, and utilize work and power. Both alternative and traditional sources of energy will be discussed. No credit towards B.S. degree in Mechanical Engineering.

• **ME 103 - Introduction to Mechanical Design**

(3)

Prerequisite: TECH 110 or one year of high school mechanical drafting. Graphics for mechanical engineering design, freehand sketching, use of computer-aided design (CAD) software for solid modeling, descriptive geometry, and selected design projects. Optional rehabilitation engineering service learning activities.

- **ME 114 - Machine Shop**

(1)

Introduction to machine shop procedures, safety practices, hand tools, band saw, drill press, milling, turning, welding (Graded CR/NC).

- **ME 154 - Special Topics in Mechanical Engineering**

(1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in mechanical engineering, as announced in Schedule of Classes. May be repeated for credit.

- **ME 201 - Statics**

(also listed as CE 201)

(4)

Prerequisites: MATH 207, PHYS 211. Fundamental principles of statics, resolution and composition of forces, algebraic and graphic solutions, friction, center of gravity, moment of inertia.

- **ME 204 - Mechanical Measurements and Instrumentation**

(4)

Prerequisite: PHYS 213. Introduction to electrical circuits, engineering measurements and instrumentation, introduction to automatic control systems and components.

- **ME 205 - Strength of Materials I**

(also listed as CE 205)

(4)

Prerequisite: CE/ME 201.

Stressed and strains under axial, shearing, and torsional forces; flexural stresses and deflections of simple beams; columns; and combined stresses.

- **ME 208 - Statics and Strength of Materials**

(also listed as CE 208)

(4)

Prerequisites: MATH 207, PHYS 211. Principles of statics, force systems and equilibrium, structures, machines distributed force, centroid, moment of inertia, stresses, strains and deformation under axial, torsional, and bending loads. For Electrical Engineering students only.

- **ME 210 - Matrix Algebra for Engineers**

(also listed as CE 210)

(2)

Prerequisites: MATH 208. Introduction to calculations using vectors; matrix operation; solution of linear simultaneous equations; coordinate transformation; application to engineering problems.

• **ME 211 - Statistics and Probability for Engineers**
(also listed as CE 211)

(2)

Prerequisites: MATH 208. Introduction to calculations using probability distributions and densities; concepts in statistics; application to engineering problems.

• **ME 214 - Review of Solid Mechanics**

(4)

Prerequisite: CE/ME 205, Free body diagrams, static analysis, determinate and indeterminate structures, internal and external forces, Hooke's Law, shear and moment diagrams/equations, axial/bending/shear/tearing/bearing stresses, Mohr's Circle, centroids, moments of inertia, singularity functions (Graded CR/NC).

• **ME 250 - Biomaterials**

(4)

Prerequisite: CHEM 101. Materials for biomedical applications, their chemical structures, physical and mechanical properties and processing, bio-reaction with biomaterials, bio-integration, implantation, inflammation, immune response, thrombosis, and calcification. Grading ABC/NC.

• **ME 254 - Special Topics Course for Sophomores in Mechanical Engineering**

(1-4)

Prerequisites: Sophomore Standing in Mechanical Engineering enrollment subject to approval of instructor in charge. Group Study of selected topics not currently offered as technical electives. Study groups may be organized in mechanical engineering subjects upon approval of instructor. May be repeated for credit.

• **ME 303 - Fluid Mechanics I**
(also listed as CE 303)

(4)

Prerequisites: PHYS 212. Fundamental principles and methods of fluid mechanics; thermodynamics of fluid flow; Newtonian fluids; equations of fluid flow; laminar and turbulent flow; applications.

• **ME 306 - Heat Transfer I**

(4)

Prerequisites: MATH 208, PHYS 212. Fundamental principles of heat transfer; conduction, convection, and radiation; applications.

• **ME 310 - Mechanical Engineering Writing Laboratory**

(1)

Prerequisite: Satisfactory completion of WPE or UNIV 401, and ENGR 150. Technical and laboratory report writing, oral and written communication, introduction to information technology. Technical report writing. Laboratory 3 hours.

• **ME 312 - Strength of Materials Laboratory I**
(also listed as CE 312)

(1)

Prerequisite: CE/ME 205. (may be taken concurrently). Tests of engineering materials in tension, compression, bending, and torsion;

verification by experiment of basic theories learned in strength of materials. Laboratory 3 hours.

- **ME 313 - Fluid Mechanics Laboratory I**
(also listed as CE 313)

(1)

Prerequisite: CE/ME 303. Experiments on fluid properties, fluid statics, conservation of mass, energy, and momentum, and fluid resistance. Laboratory 3 hours.

- **ME 315 - Thermal Systems Laboratory I**

(1)

Prerequisites: ME 306, 326A. Experiments in heat transfer and thermodynamics; thermophysical properties of fluids; analysis, operation, and performance testing of thermal energy conversion systems. Laboratory 3 hours.

- **ME 320 - Dynamics I**
(also listed as CE 320)

(4)

Prerequisite: CE/ME 201. Kinematics and kinetics of rigid bodies; work, kinetic energy, impulse, momentum in two and three dimensions; applications to space mechanics.

- **ME 321 - Kinematics of Mechanisms**

(4)

Prerequisites: ME 319. Transmission of motion; theory of mechanisms; linkages; gears; cams; belts and chains.

- **ME 323 - Machine Design I**

(4)

Prerequisites: ME 103, CE/ME 205, ENGR 207, MATH 208. Application of principles of mechanics, properties of materials, and fabrication processes to design of simple machines and structural elements.

- **ME 326A - Thermodynamics I**

(4)

Prerequisites: MATH 208, PHYS 212. Concepts of equilibrium and temperature; first and second laws of thermodynamics. Properties of pure substances; ideal gases; application of thermodynamic principles to closed and open systems.

- **ME 326B - Thermodynamics II**

(4)

Prerequisite: ME 326A. Application of thermodynamic principles; steam generators, engines and turbines; combustion, vapor cycles; refrigeration; internal combustion engines.

- **ME 327 - Manufacturing Processes**

(4)

Prerequisites: ENGR 207, CE/ME 205. Manufacturing properties of metals, alloys, and nonmetallic materials; solidification processes; material forming; material removal; joining processes; unconventional processing; numerical control; and automated processes.

• **ME 350 - Biomechanics**

(4)

Prerequisite: ME 320. Application of mechanical principles on living things, statics and dynamics of human activities, study of biomechanical mechanisms and structures, and mechanics of materials and tissues. Grading ABC/NC.

• **ME 354 - Special Topics Course for Juniors in Mechanical Engineering**

(1-4)

Prerequisites: Junior Standing in Mechanical Engineering enrollment subject to approval of instructor in charge. Group Study of selected topics not currently offered as technical electives. Study groups may be organized in mechanical engineering subjects upon approval of instructor. May be repeated for credit.

• **ME 398 - Cooperative Education**

(1-4)

Prerequisites: Approval of student adviser and department chair. Integration of mechanical engineering work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. Graded CR/NC

• **ME 402 - Advanced Mechanics of Materials**

(4)

Prerequisites: ME 323, MATH 215. Basic concepts; unsymmetrical beam bending, shear flow, energy methods; the finite element method; theories of failure; introduction to theory of elasticity, plane elastostatic problems; torsion of prismatic cylinders.

• **ME 403 - Aerodynamics**

(4)

Prerequisites: MATH 208, CE/ME 303. Air-foil characteristics; transonic, supersonic, and viscous effects on lift and drag; power considerations, airplane performances, introduction to airplane and missile stability and control.

• **ME 404 - Compressible Aerodynamics**

(4)

Prerequisites: ME 303, ME 326A, ME 306. One-dimensional frictionless flow; flow with friction and heat transfer; normal and oblique shock relations; isentropic waves; airfoil characterization; nozzle flow and design; experimental techniques. Graded ABC/NC.

• **ME 406 - Heat Transfer II**

(4)

Prerequisites: ME 303, ME 306. Numerical methods in conduction; theory and applications of convection; thermal radiation, condensing and boiling heat transfer; mass transfer special topics.

- **ME 407 - Design of Thermal Systems**

(4)

Prerequisites: ME 306, 326A. Design in engineering practice; system simulation and optimization; economic, environmental, other constraints; practical aspects of equipment selection; thermal design literature.

- **ME 408 - Fluid Mechanics II**

(4)

Prerequisites: CE/ME 303; MATH 209. Compressible and incompressible fluid dynamics; continuity, momentum, and energy equations for viscous fluids; circulation and vorticity, Navier-Stokes equation, boundary layer theory, turbulence, two-dimensional flow, three-dimensional flow.

- **ME 409 - Mechanical Engineering Analysis**

(4)

Prerequisites: MATH 215, and senior standing. Setup of vibration, heat transfer, fluid flow, and other mechanical engineering systems as ordinary and partial differential equations; analogies between various physical systems. Classical, transform, numerical, and computer-aided methods of solution.

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HELP

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Mechanical Engineering (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• ME 410 - Control of Mechanical Systems

(4)

Prerequisites: MATH 215, ME 306, PHYS 213. Mathematical models of dynamic systems, fundamentals of feedback control, basic control actions and devices, applications to mechanical systems.

• ME 411 - Vibrational Analysis I

(4)

Prerequisites: CE/ME 320, MATH 215. Analysis of free and forced vibrations with and without damping, systems with several degrees of freedom, vibration isolation, mechanical transients, torsional vibrations, natural frequency computation techniques, finite element analysis software.

• ME 412 - Strength of Materials Laboratory II

(1)

Prerequisite: CE/ME 312; prerequisite or corequisite: CE 360 or ME 323. Fatigue tests of materials and connections, stress concentration, photoelasticity, creep tests, shock and vibration tests, combined stresses, and individual projects. Laboratory 3 hours.

• ME 413 - Fluid Mechanics Laboratory II (also listed as CE 413)

(1)

Prerequisite: CE/ME 313; prerequisite or corequisite: CE 387 or ME 408. Experiments on subsonic and supersonic flow, free surface flow, pumps, turbines, fans, and unsteady flow.

• ME 414 - Machine Design II

(4)

Prerequisite: ME 323. Design of unit assemblies and machines; materials, safety, lubrication, and construction.

• **ME 415 - Air Conditioning**

(4)

Prerequisites: ME 306, 326B. Psychometric properties of air, heat loads, air conditioning and heating equipment, and air distribution.

• **ME 416 - Energy Systems**

(4)

Prerequisite: ME 326A. Unconventional energy conversion systems, energy storage, thermoelectric power and refrigeration, absorption refrigeration and cryogenics.

• **ME 418 - Renewable Energy and Sustainability**

(4)

Prerequisites: ME 326A, CHEM 101. Global sustainability and the need for renewable energy; energy conversion concepts; latest power generation technologies; political, economic, and ethical complications associated with renewable energy technologies.

• **ME 419 - Computer Aided Mechanical Engineering**

(4)

Prerequisite: ME 103, ME 323, ME 303, ME 306, CS 290 (or equivalent). Applications of modern engineering tools in computer-aided design, finite element analysis, computational fluid dynamics and control simulations. Problems in mechanics, heat transfer, fluid dynamics, and control, etc. are covered.

• **ME 421 - Dynamics of Mechanisms**

(4)

Prerequisite: CE/ME 320. Application of principles of statics, kinematics, and dynamics to analysis and design of mechanisms with rotating or reciprocating masses.

• **ME 422 - Optimization of Mechanical Engineering Systems**

(4)

Prerequisites: MATH 215, ME 306, PHYS 213. Design considerations of mechanical engineering systems; optimization techniques; application of existing computer programs and analytical methods to optimization of mechanical engineering systems.

• **ME 423 - Introduction to the Finite Element Method**

(4)

Prerequisites: CE/ME 210, CS 290, MATH 215. Corequisites: ME 306, ME 323. Derivation of element stiffness matrices for spring, bar, beam, and constant-strain triangle elements, from energy principles. Application to trusses and frames. Steady-state heat transfer. Use of finite element method software.

- **ME 428 - Automation and Computer-Aided Manufacturing**

(4)

Prerequisite: ME 327. Automation of manufacturing processes, numerical control, computer-aided manufacturing, group technology, flexible manufacturing, applications of robots in industry.

- **ME 430 - Properties and Selection of Engineering Materials**

(4)

Prerequisites: ENGR 207, ME 327. Production, strengthening, alloying and thermal treatment of metals. Types, properties of polymers, ceramics and composites. Semiconductor materials and devices. Material selection and protection against deterioration.

- **ME 431 - Material Laboratory**

(1)

Preparation of metallic samples and study of their internal structure by microscopic techniques. Mechanical testing of non-metallic materials: plastics, ceramics and composites.

- **ME 454 - Special Topics in Mechanical Engineering**

(1–4)

Prerequisites: Senior standing in mechanical engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced mechanical engineering subjects upon approval of instructor. May be repeated for credit.

- **ME 459 - Rehabilitation Design & Internship**

(4)

Prerequisite: ME320. Corequisites: ME 321 or 421. Introduction to Rehabilitation & Biomedical Engineering utilizing cutting-edge analysis and measurement tools to apply students' skills to maximize independence and enhance activities of people with disabilities. This course requires Service-Learning.

- **ME 481 - Introduction to Robotics**
(also listed as EE 481)

(4)

Prerequisite: EE 360 or ME 410. General considerations of robotic manipulator; spatial description, homogeneous transformations; manipulator kinematics; inverse manipulator kinematics; motion trajectories; static forces.

- **ME 497A - Mechanical Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of Writing Proficiency Examination (WPE), senior standing and/or consent of the instructor. Study of engineering design processes. ME 497A includes case studies to discuss the impact of design constraints. Must be taken in sequence starting with ME 497A. Lecture 2 hours, laboratory 6 hours.

- **ME 497B - Mechanical Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of Writing Proficiency Examination (WPE), senior standing and/or consent of the instructor. Study of

engineering design processes. 497B and 497C includes the selection and completion of a faculty-supervised project focusing on typical problems encountered in engineering practice and resulting in a formal report and oral presentation. Must be taken in sequence starting with ME 497A. Lecture 2 hours, laboratory 6 hours.

- **ME 497C - Mechanical Engineering Senior Project**

(4)

Prerequisite: Satisfactory completion of Writing Proficiency Examination (WPE), senior standing and/or consent of the instructor. Study of engineering design processes. 497B and 497C includes the selection and completion of a faculty-supervised project focusing on typical problems encountered in engineering practice and resulting in a formal report and oral presentation. Must be taken in sequence starting with ME 497A. Lecture 2 hours, laboratory 6 hours.

- **ME 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Mechanical Engineering (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

- **ME 501A - Advanced Mechanics of Particles**

(4)

Prerequisite: ME 421. Analytical approach to kinematics and dynamics of particles in three-dimensional space.

- **ME 501B - Advanced Mechanics of Rigid Bodies**

(4)

Prerequisite: ME 501A. Analytical approach to kinematics and dynamics of rigid bodies in three-dimensional space.

- **ME 503 - Design of Mechanical Systems and Products**

(4)

Prerequisite: ME 414. Principles of design; value criteria; manufacturing and human factors; computer-aided simulation and analysis; synthesis of design.

- **ME 504 - Thermal Radiation**

(4)

Prerequisite: ME 406. Thermodynamics and physics of thermal radiation and its interactions with matter; formulation and solution of radiative transfer equations for surfaces and enclosures by means of exact, approximate, and numerical methods; applications to selected topics.

- **ME 505 - Heat Conduction**

(4)

Prerequisite: ME 406. Fundamentals of heat conduction, solution of steady and unsteady state heat conduction problems by means of exact,

approximate, and numerical methods; applications to selected topics.

- **ME 506 - Heat Convection**

(4)

Prerequisite: ME 406 or 408. Development of equations describing fluid motion and heat convection. Analytical and experimental results for free and forced convection and for changes in phase.

- **ME 508 - Compressible Fluids**

(4)

Prerequisite: ME 408. One-dimensional gas dynamics; shock waves in supersonic flow; flow in ducts and nozzles; applications to high-speed aerodynamics; multidimensional and unsteady frictionless flow; solution by small perturbation theory and method of characteristics.

- **ME 509 - Design and Analysis of Experiments**

(4)

Prerequisites: ME 409 or equivalent. Emphasis on the planning and design of experiments and the collection and analysis of data obtained from laboratory and field studies related to mechanical Engineering.

- **ME 511 - Vibrational Analysis II**

(4)

Prerequisite: ME 411. Analysis of multidegree of freedom systems, continuous systems, random vibrations, finite element software.

- **ME 514 - Fatigue and Failure in Engineering Design**

(4)

Prerequisite: ME 402 or ME 414. Elasticity, plastic deformation, imperfections, dislocations, creep, oxidation and corrosion, fatigue, fracture mechanics, cyclic stresses, design against fatigue, procedures for fatigue analysis, and influence of various factors on fatigue failure.

- **ME 521 - Dynamic Systems Analysis**

(4)

Prerequisite: ME 409 or 410. Dynamic behavior of physical systems; input-output and state space representation of linear continuous-time and discrete-time systems; controllability, observability, and stability of linear systems; examples of mechanical, thermal, fluid, and electrical systems.

- **ME 522 - Optimal Control of Mechanical Systems**

(4)

Prerequisite: ME 410 or 422. State space representation of continuous-time and discrete-time dynamic systems, problem statement of optimal control and performance index, maximum principle, design of linear optimal control systems, mechanical system examples.

- **ME 525 - Computational Fluid Dynamics**

(4)

Prerequisite: ME 406 or ME 408. Use of computational fluid dynamics for the study of fluid flow, heat transfer, and mass transfer. Transfer mechanisms include advection, convection, and diffusion. Sample applications include mass flow through piping systems and over objects, heat exchangers, evaporators, and boilers.

• **ME 528 - Metalforming Science and Applications**

(4)

Prerequisite: ME 414. Nature and purpose of metalworking theory, determination of working loads, drawing and rolling of flat slabs and strips, deep drawing, extrusion, forging, punching and piercing, friction and lubrication in metalworking.

• **ME 529 - Machining Science and Applications**

(4)

Prerequisite: ME 414. Deformation of materials during machining; mechanics of orthogonal cutting; cutting fluids; tool wear; tool life and machinability; vibrations in cutting; practical machining operations; and modern machining processes.

• **ME 530 - Near-Net-Shape Manufacturing and Surface Treatment**

(4)

Prerequisite: ME 430. Near-net-shape forging and casting of parts, powder metallurgy, metal injection molding. Sheet metal deformation, joining and fastening processes. Surface texture, treatments and coatings. Engineering metrology. Friction, wear and lubrication.

• **ME 531 - Processing of and Design with Modern Engineering Materials**

(4)

Prerequisite: ME 430. Manufacturing of ceramics, glasses and composites. Design using composites. Processing of polymers semiconductors and superconductors. Rapid prototyping. Fabrication of printed wire boards. Introduction to microelectronic devices, microelectromechanical systems (MEMS) and nano-technology.

• **ME 554 - Special Graduate Topics in Mechanical Engineering**

(1–4)

Prerequisites: As needed for specific topic. Current topics of interest to graduate students in Mechanical Engineering, as announced in Schedule of Classes. May be repeated for credit as topic changes.

• **ME 559 - Advanced Rehabilitation Design and Internship**

(4)

Prerequisite: ME459. Advanced multi-disciplinary design analysis and synthesis to analyze, create and test solutions to maximize independence and enhance activities of people with disabilities. This course requires Service-Learning.

• **ME 595A - Mechanical Engineering Graduate Design**

(4)

Prerequisites: Graduate standing and satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). First course in a two-course sequence, providing a major design experience. Completion of a faculty-supervised project addressing typical problems encountered in engineering practice. Deliverables are formal report and oral presentation. Lecture 2 hours, laboratory 6 hours.

- **ME 595B - Mechanical Engineering Graduate Design**

(4)

Prerequisites: ME 595A. Second course in a two-course sequence, providing a major design experience. Completion of a faculty-supervised project addressing typical problems encountered in engineering practice. Deliverables are formal report and oral presentation. Lecture 2 hours, laboratory 6 hours.

- **ME 596 - Comprehensive Examination**

(0)

Permission needed by department. Students who select the comprehensive examination (ME 596) should expect to take it the quarter they complete all course work on their program, and must comply with college and department requirements.

- **ME 597 - Graduate Research**

(1–5)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/ NC.

- **ME 598 - Graduate Directed Study**

(1–4)

Prerequisites: Instructor consent to act as sponsor, and departmental approval. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

- **ME 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, instructor consent to act as a sponsor, college approval of the topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/ NC.

Microbiology (Graduate)

- **MICR 510 - Advanced Studies – Hematology**

(5)

Co-requisite Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Laboratory Scientist Training Program. Students will be introduced to phlebotomy, and engage in advanced study of normal and abnormal hematologic conditions, normal hemostasis, and disorders of hemostasis.

- **MICR 520 - Advanced Studies - Transfusion**

(3)

Co-requisite: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Laboratory Scientist Training Program. Students will be engaged in advanced study in transfusion services, molecular diagnostics, and management issues in the clinical laboratory.

- **MICR 530 - Advanced Studies in Clinical Chemistry**

(3)

Co-requisite: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Laboratory Scientist Training Program. Students will be engaged in advanced study of physiologic and biochemical processes present in normal and disease states.

- **MICR 540 - Advanced Studies in Medical Microbiology**

(8)

Co-requisite: Concurrent enrollment in the Post-Baccalaureate California State University Los Angeles Clinical Laboratory Scientist Training Program. Students will be engaged in the advanced study of viruses, bacteria, fungi, and parasites of medical importance.

Microbiology (Undergraduate)

- **MICR 151 - Biology of Microorganisms**

(4)

Inquiry-based course in microbiology designed for non-majors; content addresses the impact of microorganisms on the human experience and the biosphere; laboratory application of selected procedures. No credit if taken after any other college microbiology course. Lecture 3 hours, laboratory 3 hours.

GE B1

- **MICR 201 - Microbiology for Health Related Sciences**

(4)

Prerequisites: BIOL 100B or 200A and 200B with a grade of C or higher; CHEM 102 or 151 with a grade of C or higher. Basic function and structure of microorganisms; host-parasite relationships, infectious diseases, immunology and serology, epidemiology, antimicrobial agents, and chemotherapy. Lecture 4 hours.

- **MICR 202 - Microbiology Laboratory for Health Related Sciences**

(2)

Corequisite: MICR 201. Laboratory methods used in studying microorganisms; aseptic techniques, environmental influences on microorganisms, microbial interrelationships; water microbiology and sanitation; immunology and infectious disease diagnosis. Laboratory 6 hours.

- **MICR 300A - General Microbiology**

(4)

Prerequisites: BIOL 100B; CHEM 102. Fundamental biological principles of microbes. Introduction to structure, function, growth, nutrition, and genetics. Laboratory introduces essential microbiology techniques including aseptic techniques, microscopy, and basic microbial physiology tests. Lecture 3 hours; laboratory 3 hours.

- **MICR 300B - General Microbiology II**

(4)

Prerequisites: MICR 300A, with a grade of C or higher, or instructor consent. Introduction to microbial metabolism and diversity, and environmental, industrial, and medical aspects of microbiology. Laboratory introduces essential microbiology techniques and assays related to the lecture topics. Lecture 3 hours; laboratory 3 hours.

- **MICR 340 - Microbial Genetics**

(4)

Prerequisite: Grade of C or higher in MICR 300B or instructor consent. Principles of microbial genetics with emphasis on genetic exchange, genetic manipulation, and applications with environmentally, industrially, and medically significant organisms. Lecture 3 hours and laboratory 3 hours.

- **MICR 350 - Medical Microbiology**

(5)

Prerequisite: MICR 300B with grade of C or higher, or instructor consent. Host-pathogen interactions; microbiology and pathophysiology of infectious diseases with an emphasis on bacterial infections; diagnostic procedures for identification of major human pathogens including microscopy, isolation, culture, and biochemical assays. Lecture 3 hours, laboratory 6 hours.

- **MICR 360 - Theoretical and Applied Immunology**

(5)

Prerequisites: (MICR 300AB or MICR 201/202), and CHEM 291A and CHEM 292A, each with a grade of C or higher, or instructor consent. Concepts of innate and adaptive immune responses, failures of the immune system, and clinical applications of immunology in diagnosis, prevention and therapy. Emphasis on current methodology and scientific data dissemination. Lecture 3 hours, laboratory 6 hours.

- **MICR 370 - Applied and Environmental Microbiology**

(4)

Prerequisites: MICR 300B with a grade of C or higher, or instructor consent. Interactions of microorganisms with their environment and the application of microorganisms in food and biotech industries, agriculture, and bioremediation. Emphasis on microbial diversity, distribution and microbial function within ecosystems.

- **MICR 396 - Honors Thesis in Microbiology**

(1-3)

Prerequisites: Upper division standing, 40 units in the major, ENGL 102, admission to the Microbiology Honors program. Independent research in microbiology culminating in a written thesis, seminar presentation, and oral defense. Must be repeated until 5 units have been completed, after which no additional units may be taken. Graded CR/NC.

- **MICR 398 - Cooperative Education**

(see UNIV 398)

(1-4)

Cooperative Education

- **MICR 401 - General Virology**

(4)

Prerequisites: (BIOL 340 and MICR 300A) or MICR 340. Basic principles of virology; emphasizes properties, classification, multiplication, genetics, and viral-host interactions including the pathophysiology of viral infections.

- **MICR 410 - Hematology**

(4)

Prerequisites: MICR 350; CHEM 431A. CHEM 431A may be taken concurrently. Normal hematopoiesis and hemostasis and how defects in the normal processes affect the blood, anemias, leukemias, coagulation, and other hematologic or nonhematologic disorders. Lecture 3 hours, laboratory 3 hours.

• **MICR 412 - Introduction to Epidemiology**
(also listed as HS 412)

(4)

Fundamental principles in studying the distribution and determinants of health states and events in specified populations and implications for health and safety promotion and disease and injury prevention.

• **MICR 420 - Emerging and Re-Emerging Infectious Diseases**

(4)

Prerequisites: BIOL 100C or MICR 201 and 202 or MICR 300A or instructor consent. Microbiology and pathogenesis of infectious diseases in today's news, forces driving their appearance, and tools for their recognition, identification and control. Emphasis on primary literature and group discussions.

• **MICR 430 - Bacterial Physiology**

(3)

Prerequisites: MICR 340; CHEM 431A. Co-requisite: CHEM 431B. Bacterial physiology with emphasis on biochemical events related to cellular differentiation and basic bacterial biochemical pathways.

• **MICR 433 - Bacterial Physiology Laboratory**

(2)

Corequisite: MICR 430. Experimental work to accompany MICR 430. Laboratory 6 hours.

• **MICR 440 - Fungal Pathogenesis**

(4)

Prerequisites: One of the following. MICR 340, BIOL 340, or consent of instructor. Molecular principles of microbial pathogenesis with a focus on pathogenic fungi that infect humans. Emphasis on primary literature, student presentations and group discussions.

• **MICR 450 - Innate Immunity**

(4)

Prerequisites: One of the following BIOL 380, MICR 201 + MICR 202, MICR 300A, or instructor consent. First line immune defenses from concepts to molecules. Up-to-date experimental approaches, scientific data analysis and distribution. Lecture 2 hours, laboratory 3 hours, recitation 1 hour.

• **MICR 454L - Special Topics in Microbiology**

(1–4 each)

Prerequisites: Upper division standing, others as needed for specific topics. Topics of current interest in microbiology, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

- **MICR 454P - Activities in Special Topics in Microbiology**

(1–3)

Prerequisites: Upper division standing, others as needed or specific topics. Corequisite: MICR 454L. Activities related to topics of current interest in microbiology, as announced in Schedule of Classes. MICR 454L and 454P may be repeated to a maximum of 8 units total.

- **MICR 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated for credit. Graded CR/NC.

Modern Languages (Undergraduate)

- **ML 150 - Building a Modern Languages Portfolio**

(1)

Assessment of language proficiency, content knowledge, and portfolio design. Required of all Modern Languages majors upon beginning program. Graded CR/NC.

- **ML 154 - Special Topics in (a) Modern Language**

(1–5)

Topics of special interest to students of modern language, as announced in Schedule of Classes.

- **ML 180 - Chinese Written Symbols in Asian and Asian American Communities**
(also listed as AAAS 180)

(4)

Development of Chinese characters, similarity and dissimilarity in their usage among Asian countries, and their impact on Asian's and Asian American's cultural identities.

- **ML 300 - Language Diversity in Urban America**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. NIS account required. Study of the nature and socio-cultural impact of language diversity in urban America.

GE Theme D

- **ML 301A - Advanced Study of (a) Strategic Language**

(4)

Prerequisite: Intermediate-level Summer Intensive courses in one of the languages offered by CSU campuses participating in the Strategic Language Initiative project, or equivalent. Permit from Department and NIS account required. Advanced study language such as Arabic, Farsi, Korean, or Russian with emphasis on reading and writing in students' major fields.

ML 301B - Advanced Study of (a) Strategic Language

(4)

Prerequisite: Intermediate-level Summer Intensive courses in one of the languages offered by CSU campuses participating in the Strategic Language Initiative project, or equivalent. Permit from Department and NIS account required. Advanced study language such as Arabic, Farsi, Korean, or Russian with emphasis on reading and writing in students' major fields.

• ML 301C - Advanced Study of (a) Strategic Language

(4)

Prerequisite: Intermediate-level Summer Intensive courses in one of the languages offered by CSU campuses participating in the Strategic Language Initiative project, or equivalent. Permit from Department and NIS account required. Advanced study language such as Arabic, Farsi, Korean, or Russian with emphasis on reading and writing in students' major fields.

• ML 354L - Special Topics in (a) Modern Language

(1–4)

Prerequisites: As needed for specific topic. Topics of special interest to students in modern languages as announced in Schedule of Classes.

• ML 354P - Special Topics in (a) Modern Language

(1–4)

Prerequisites: As needed for specific topic. Topics of special interest to students in modern languages as announced in Schedule of Classes.

• ML 382 - Maturity and Aging in East Asia and Romance Literatures

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical examination and comparison of the themes of maturity, aging and human development in East Asian and Romance literatures.

GE Theme F

• ML 389 - Human Emotions in Literary Expression (also listed as ENGL 389)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C.

Emotions such as love, anger, laughter, fear, joy, sorrow, guilt, pain or oppression, as represented in prose and poetic forms of various cultures.

• ML 392 - Literary Gazette

(1–4)

Prerequisites: Upper Division standing, instructor consent. Techniques of producing a university literary magazine. May be repeated to maximum of 6 units. Graded CR/NC.

• ML 396 - Early Field Experience in Language Teaching

(4)

Prerequisites: Major status in a single-subject matter preparation program and approval by chair or principal undergraduate advisor after completion of 12 upper-division units. Study of the Foreign Language Framework for California Public Schools in conjunction with practical

field experience. Observe language classes in public schools.

- **ML 399 - Directed Reading**

(1–4)

Prerequisite: Consent of adviser. Readings in a modern language about topics of interest to student under direction of faculty member; regular oral and/or written reports in the language.

- **ML 400 - Research Methods in Modern Languages**

(4)

Prerequisite: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Exploration of methods of research and documentation in the field of modern languages and literatures. Writing research papers, reports, and essays. All discussions and writing in English.

- **ML 403 - Current Approaches to Teaching and Assessment in Languages other than English**

(4)

Prerequisite: ML 396. Current approaches to teaching languages, emphasizing the communicative approach and technology-enhanced language learning. Introduction to language assessment. Study of LOTE Subject Matter Standards. Course taught in English.

- **ML 410 - Chicana and Mexican Women Writers**
(Also listed as CHS 413 and WOMN 410)

(4)

Prerequisite: ENGL 305 or SPAN 300A or equivalent. Reading knowledge of Spanish, class discussions and instruction in English. Comparative study of contemporary Mexican and Chicana female writers with a focus on gender and sexuality issues, and their particular historical and cultural context.

- **ML 450 - Modern Languages Exit Assessment**

(1)

Documentation of meetings with mentor, completion of exit assessment and survey, and submission of portfolio. Required of all Modern Languages majors in last quarter of study. Graded CR/NC.

- **ML 487 - Latin American Literature in Translation**
(Also listed as ENGL 487)

(4)

Critical examination of Latin American literature, with emphasis on post-independence and modern periods.

- **ML 496 - Instructional Practicum**

(4)

Prerequisites: ML 403, and approval by chair. Required of all teaching associates; experience in the teaching of a second language at the university level. Weekly progress meetings required.

- **ML 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Consent of adviser. Reading in a modern language about topics of interest to student under direction of faculty member; regular oral and/or written reports in the language. May be repeated to a maximum of 8 units.

Modern Languages (Graduate)

- **ML 901 - Modern Language Reading Exam**

(0)

Required for student who must demonstrate competence in a foreign language as part of a degree program. Students must enroll each quarter in which they expect to take the examination.

Music (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

- **MUS 100 - Supplemental Music Theory Practice**

(1)

Prerequisite: Permission of the instructor, concurrent enrollment in MUS 161A or 161B or other designated course. Supplemental practice with music theory content, writing and editing theory assignments. Regularly scheduled meetings with the music theory tutor. May be repeated to maximum of 4 units. Graded CR/NC

- **MUS 101 - Concert/Recital Attendance**

(0)

Attendance at department recitals and concerts. Required attendance at a minimum of four recitals per quarter. May be repeated a maximum of 12 times. Graded CR/NC.

- **MUS 115A - Strings**

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to a maximum of 6 units.

- **MUS 115B - Strings**

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to maximum of 6 units.

- **MUS 116A - Woodwinds**

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. May be repeated to a maximum of 6 units.



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Music (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

• MUS 116B - Woodwinds

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. Maybe repeated to maximum of 6 units.

• MUS 117A - Brass

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to a maximum of 6 units.

• MUS 117B - Brass

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to maximum of 6 units.

• MUS 118A - Percussion

(1)

Prerequisite Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to a maximum of 6 units.

• MUS 118B - Percussion

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to maximum of 6 units.

- **MUS 119A - Applied Music: Commercial Music**

(1)

Prerequisite: Students admitted by audition only. Instruction in music technology commercial composition, and commercial arranging. May be repeated to a maximum of 6 units.

- **MUS 119B - Applied Music: Commercial Music**

(2)

Prerequisite: For students in the BM degree program. Students admitted by audition only. Instruction in music technology, commercial composition, commercial arranging, and pedagogy. May be repeated to a maximum of 6 units.

- **MUS 121 - Symphony Orchestra**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard orchestral literature and contemporary orchestral works. Meets minimum of four hours weekly. May be repeated to a maximum of 12 units.

- **MUS 122 - Wind Ensemble**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard ensemble literature and contemporary ensemble work. Meets minimum of four hours weekly. May be repeated to a maximum of 12 units.

- **MUS 124 - Jazz Ensemble**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of standard Jazz Orchestra literature, including original and published arrangements. Meets minimum of 3 hours weekly. May be repeated to a maximum of 12 units.

- **MUS 126 - Concert Choir**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard choral literature and contemporary choral works. Meets minimum of four hours weekly. May be repeated to a maximum of 12 units.

- **MUS 127 - Opera Workshop**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard operatic literature both scenes and full productions. Meets minimum of four hours weekly. May be repeated to a maximum of 12 units.

• **MUS 128 - Vocal Jazz Ensemble**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard and contemporary vocal jazz literature. Meets minimum of four hours weekly. May be repeated to a maximum of 12 units.

• **MUS 135A - Voice**

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to a maximum of 6 units.

• **MUS 135B - Voice**

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to maximum of 6 units.

• **MUS 143A - Class Piano Instruction I**

(1)

Prerequisite: Ability to read music notation. Development of piano skills: technique of harmonization and transposition, score reading, sightreading, and accompaniment. Activity 2 hours.

• **MUS 143B - Class Piano Instruction II**

(1)

Prerequisite: MUS 143A or the equivalent. Development of piano skills: technique of harmonization and transposition, score reading, sightreading, and accompaniment. Activity 2 hours.

• **MUS 143C - Class Piano Instruction III**

(1)

Prerequisite: MUS 143B or the equivalent. Development of piano skills: technique of harmonization and transposition, score reading, sightreading, and accompaniment. Activity 2 hours.

• **MUS 145A - Piano**

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to a maximum of 6 units.

• **MUS 145B - Piano**

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to maximum of 6 units.

- **MUS 146A - Organ**

(1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to a maximum of 6 units.

- **MUS 146B - Organ**

(2)

Prerequisite: For students in BM degree programs. Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to maximum of 6 units.

- **MUS 150 - Music in World Culture**

(4)

Study of the music of many cultures within a broad humanities framework of visual arts, literature, history, and philosophy. A written project is required.

GE C2

- **MUS 151 - Classical Music in Western Culture**

(4)

Introduces the student to the major styles, genres, and forms of Western classical music within the context of the many cultures in which it developed.

GE C2

- **MUS 152 - The Roots of Rock and Pop Music in American Culture**

(4)

The origins of popular music in the United States, and its place in contemporary society, culture, and diverse communities.

GE C2

- **MUS 156 - Jazz in American Culture**

(4)

Study of different eras and styles of Jazz in the United States and the social forces that shape it.

GE C2

- **MUS 157 - Musical Expressions of the Latino Communities in the USA**

(4)

Study of Latino musical expressions in the United States and the social forces that shape them.

GE C2

- **MUS 160 - Music Fundamentals**

(4)

Exploring basic musical elements common to the major world cultures through improvisation; emphasis on rhythm, melody, harmony, texture, and form.

GE C2

• **MUS 161A - Music Theory I**

(3)

Prerequisites: MUS 160 or instructor approval. Corequisite MUS 162ABC, 243ABC. Integrated approach to music theory: essentials of harmony, counterpoint, form, and keyboard experience emphasized. Meets 3 hours weekly.

• **MUS 161B - Music Theory II**

(3)

Prerequisites: MUS 160 or instructor approval. Corequisite MUS 162ABC, 243ABC. Integrated approach to music theory: essentials of harmony, counterpoint, form, and keyboard experience emphasized. Meets 3 hours weekly.

• **MUS 161C - Music Theory III**

(3)

Prerequisites: MUS 160 or instructor approval. Corequisite MUS 162ABC, 243ABC. Integrated approach to music theory: essentials of harmony, counterpoint, form, and keyboard experience emphasized. Meets 3 hours weekly.

• **MUS 162A - Musicianship I**

(1)

Prerequisite: MUS 160 or instructor approval. Must be taken concurrently with 161ABC and 243 ABC; Sight-singing, eartraining, keyboard application, and aural analysis correlated with 161 ABC. Meets 2 hours weekly.

• **MUS 162B - Musicianship II**

(1)

Prerequisite: MUS 160 or instructor approval. Must be taken concurrently with 161ABC and 243 ABC; Sight-singing, eartraining, keyboard application, and aural analysis correlated with 161 ABC. Meets 2 hours weekly.

• **MUS 162C - Musicianship III**

(1)

Prerequisite: MUS 160 or instructor approval. Must be taken concurrently with 161ABC and 243 ABC; Sight-singing, eartraining, keyboard application, and aural analysis correlated with 161 ABC. Meets 2 hours weekly.

• **MUS 169 - Introduction to Music: Music Technology I**

(2)

Prerequisite: Music major or minor standing. Introductory class in computer usage, computer sequencing, computer notation, MIDI and synthesizer basics, and other music software and hardware.

• **MUS 170 - Introduction to Music: Music Literature**

(2)

Prerequisite: MUS 169. Introduction to music for majors and minors: listening, elements of music, and basic styles and genres of western classical and world musics.

• **MUS 191 - Introduction to Music In Schools**

(2)

Prerequisite: Music major or minor standing. Introduction to choral, instrumental, and general music teaching techniques. Current approaches to music education are explored and observed in area elementary and secondary schools.

• **MUS 211 - Orchestral Instruments**

(1)

Prerequisite or Corequisite: MUS161A and MUS 162A; enrollment in an appropriate ensemble required. Class instruction in theory and performance of orchestral instruments or guitar. Open to majors, minors and non-majors with instructor approval. Meets 3 hours weekly. May be repeated to maximum of 6 units.

• **MUS 211B - Brass and Percussion**

(3 each)

Class instruction in theory and performance of orchestral instruments; ensemble experience provided. Designed for all music majors and minors except those with an instrumental focus. Meets 4 hours weekly.

• **MUS 211S - Strings**

(3 each)

Class instruction in theory and performance of orchestral instruments; ensemble experience provided. Designed for all music majors and minors except those with an instrumental focus. Meets 4 hours weekly.

• **MUS 211W - Woodwinds**

(3 each)

Class instruction in theory and performance of orchestral instruments; ensemble experience provided. Designed for all music majors and minors except those with an instrumental focus. Meets 4 hours weekly.

• **MUS 215A - Strings**

(1)

Prerequisite: MUS 115A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to a maximum of 6 units.

• **MUS 215B - Strings**

(2)

Prerequisite: For students in BM degree programs. MUS 115B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to maximum of 6 units.

- **MUS 216A - Woodwinds**

(1)

Prerequisite: MUS 116A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. May be repeated to a maximum of 6 units.

- **MUS 216B - Woodwinds**

(2)

Prerequisite: For students in BM degree programs. MUS 116B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. May be repeated to maximum of 6 units.

- **MUS 217A - Brass**

(1)

Prerequisite: MUS 117A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to a maximum of 6 units.

- **MUS 217B - Brass**

(2)

Prerequisite: For students in BM degree programs. MUS 117B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to maximum of 6 units.

- **MUS 218A - Percussion**

(1)

Prerequisite: MUS 118A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to a maximum of 6 units.

- **MUS 218B - Percussion**

(2)

Prerequisite: For students in BM degree programs. MUS 118B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to maximum of 6 units.

- **MUS 219A - Applied Music: Commercial Music**

(1)

Prerequisite: MUS 119A or jury examination. Instruction in music technology, commercial composition, and commercial arranging. May be repeated to a maximum of 6 Units.

- **MUS 219B - Applied Music Commercial Music**

(2)

Prerequisite: For students in BM degree programs. MUS 119B or jury examination. Instruction in music technology, commercial composition, and commercial arranging. May be repeated to a maximum of 6 units.

- **MUS 230 - Elementary Voice Instruction**

(2)

Primarily for students not majoring in music. Technique of voice production, study of song interpretation, emphasis upon recreational singing, some attention to elementary musicianship and remedial problems. Meets 4 hours weekly. May be repeated to maximum of 6 units.

- **MUS 235A - Voice**

(1)

Prerequisite: MUS 135A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to a maximum of 6 units.

- **MUS 235B - Voice**

(2)

Prerequisite: For students in BM degree programs. MUS 135B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to maximum of 6 units.

- **MUS 243A - Class Piano Instruction IV**

(1)

Prerequisite: MUS 143C or the equivalent of keyboard skills. Development of intermediate keyboard skills. Work on improvisation, transposition, literature, chord progressions, and basic solo repertoire. Activity 2 hours.

- **MUS 243B - Class Piano Instruction V**

(1)

Prerequisite: MUS 243A or the equivalent of keyboard skills. Development of intermediate keyboard skills. Work on improvisation, transposition, literature, chord progressions, and basic solo repertoire. Activity 2 hours.

- **MUS 243C - Class Piano Instruction VI**

(1)

Prerequisite: MUS 243B or the equivalent of keyboard skills. Development of intermediate keyboard skills. Work on improvisation, transposition, literature, chord progressions, and basic solo repertoire. Activity 2 hours.

- **MUS 243D - Piano Proficiency Examination**

(0)

Piano-proficiency is required of all music majors prior to graduation. This requirement may be fulfilled by either completing the class-piano sequence through MUS 243C or by passing MUS 243D. Graded CR/NC.

- **MUS 245A - Piano**

(1)

Prerequisite: MUS 145A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to a maximum of 6 units.

• **MUS 245B - Piano**

(2)

Prerequisite: For students in BM degree programs. MUS 145B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to maximum of 6 units.

• **MUS 246A - Organ**

(1)

Prerequisite: MUS 146A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to a maximum of 6 units.

• **MUS 246B - Organ**

(2)

Prerequisite: For students in BM degree programs. MUS 146B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to maximum of 6 units.

• **MUS 261A - Music Theory IV**

(3)

Prerequisite: MUS 161C, 162C. Must be taken concurrently with 262ABC. Continued study of materials of music using more complex forms and more difficult techniques and styles. Writing emphasis on student's performing medium. Meets 3 hours weekly.

• **MUS 261B - Music Theory V**

(3)

Prerequisite: MUS 161C, 162C. Must be taken concurrently with 262ABC. Continued study of materials of music using more complex forms and more difficult techniques and styles. Writing emphasis on student's performing medium. Meets 3 hours weekly.

• **MUS 261C - Music Theory VI**

(3)

Prerequisite: MUS 161C, 162C. Must be taken concurrently with 262ABC. Continued study of materials of music using more complex forms and more difficult techniques and styles. Writing emphasis on student's performing medium. Meets 3 hours weekly.

• **MUS 262A - Musicianship IV**

(1)

Prerequisites: MUS 161C, 162C. Must be taken concurrently with 261ABC. Sight singing, ear training, keyboard application, and aural analysis correlated with MUS 261ABC. Activity two hours.

• **MUS 262B - Musicianship V**

(1)

Prerequisites: MUS 161C, 162C. Must be taken concurrently with 261ABC. Sight singing, ear training, keyboard application, and aural analysis correlated with MUS 261ABC. Activity two hours.

• **MUS 262C - Musicianship VI**

(1)

Prerequisites: MUS 161C, 162C. Must be taken concurrently with 261ABC. Sight singing, ear training, keyboard application, and aural analysis correlated with MUS 261ABC. Activity two hours.

• **MUS 263 - Introduction to Composition**

(2)

Prerequisites: MUS 161C, 162C. Rudimentary skill in music composition including short works for instrumental duo and accompanied voice. Introduction to recent compositional practices. Must be completed in advance of the junior recital in music composition. May be repeated to a maximum of 4 units.

• **MUS 300 - Career Planning and Writing in Music**

(3)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Combined career assessment/planning with writing skills. Career component includes assessment, job opportunities, and planning. Extensive writing practice of projects useful to the field.

• **MUS 312 - Orchestral Instruments A-H**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

• **MUS 312A - Strings**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

• **MUS 312C - Woodwinds**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

• **MUS 312E - Brass**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

- **MUS 312G - Percussion**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

- **MUS 312H - Guitar**

(2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 4 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

- **MUS 315A - Strings**

(1)

Prerequisite: MUS 215A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to a maximum of 6 units.

- **MUS 315B - Strings**

(2)

Prerequisite: For students in BM degree programs. MUS 215B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to maximum of 6 units.

- **MUS 316A - Woodwinds**

(1)

Prerequisite: MUS 216A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute oboe, bassoon, clarinet, and saxophone. May be repeated to a maximum of 6 units.

- **MUS 316B - Woodwinds**

(2)

Prerequisite: For students in BM degree programs. MUS 216B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. Maybe repeated to maximum of 6 units.

- **MUS 317A - Brass**

(1)

Prerequisite: MUS 217A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to a maximum of 6 units.

- **MUS 317B - Brass**

(2)

Prerequisite: For students in BM degree programs. MUS 217B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to maximum of 6 units.

• **MUS 318A - Percussion**

(1)

Prerequisite: MUS 218A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to a maximum of 6 units.

• **MUS 318B - Percussion**

(2)

Prerequisite: For students in BM degree programs. MUS 218B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to maximum of 6 units.

• **MUS 320 - Symphonic Band**

(1)

Prerequisite: Instructor consent. Preparation and performance of standard and contemporary literature of the symphonic band. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

• **MUS 321 - Orchestral Performance and Practice**

(1)

Prerequisite: Instructor consent by audition. Exploration in standard symphonic orchestral repertoire, performance practice, and audition preparation. Meets up to 4 hours per week. May be repeated to maximum of 12 units.

• **MUS 322 - Wind Ensemble**

(1)

Prerequisite: Instructor consent. Preparation and performance of standard and contemporary wind literature. Activity 4 hours. May be repeated to maximum of 12 units.

• **MUS 325 - Accompanying Ensemble**

(1)

Prerequisite: Instructor consent. Preparation and public performance of standard and contemporary ensemble literature, which includes a keyboard instrument. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

• **MUS 326 - Concert Choir**

(1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard choral literature and contemporary choral works. Concerts given on and off campus. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

• **MUS 327 - University Chorus**

(1)

Preparation and performance of standard choral literature, primarily in large forms, with accompaniment. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

• **MUS 330 - Principles of Applied Vocal Development**

(3)

Prerequisite: MUS 230 or one year of choral experience. Open to music majors and minors only. Principles of correct vocal production development through lecture and demonstration with laboratory experience in solo singing. Analysis by class members and instructor. Lecture 2 hours, laboratory 2 hours.

• **MUS 335A - Voice**

(1)

Prerequisite: MUS 235A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to a maximum of 6 units.

• **MUS 335B - Voice**

(2)

Prerequisite: For students in BM degree programs. MUS 235B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to maximum of 6 units.

• **MUS 340 - BM Junior Recital**

(0) units)

Prerequisite: Consent of major professor. Junior level standing in applied music study. Corequisites: One of the following: MUS 315, 316, 317, 335, 345, 346. Performance of a 30 minute Junior Recital.

• **MUS 345A - Piano**

(1)

Prerequisite: MUS 245A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to a maximum of 6 units.

• **MUS 345B - Piano**

(2)

Prerequisite: For students in BM degree programs. MUS245B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to maximum of 6 units.

• **MUS 346A - Organ**

(1)

Prerequisite: MUS 246A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to a maximum of 6 units.

- **MUS 346B - Organ**

(2)

Prerequisite: For students in BM degree programs. MUS 246B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to maximum of 6 units.

- **MUS 352 - History of Popular Music**

(4)

Prerequisite: MUS 261C, MUS 262C. Development of American popular music from the 19th century to the present. Emphasis on the roots of rock and roll. Analysis of repertoire, form, genre, style, and performance.

- **MUS 358 - Music of the Oppressed in Latin America**

(4)

Prerequisite: Completion of GE Basic Subjects and at least one course each from blocks B, C, and D. Analysis of musical expressions within a social, political and historical context, that were created by oppressed groups in Latin America and Latinos in the United States.

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Music (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

• MUS 362 - Orchestration and Arranging

(4)

Prerequisites: MUS 261C, 262C; prior completion of MUS 211 or 312 recommended. Theory of writing for instrumental ensembles, instrumentation, basic instrumental acoustics, study of orchestral scores, and introduction to symphonic orchestration and arranging.

• MUS 366 - Jazz and Commercial Harmony

(3)

Prerequisite: MUS 261C. The study of the fundamental aspects of harmony and composition in relation to jazz and commercial music, including harmonic progressions, melodic design and rhythm.

• MUS 367A - Jazz, Rock, and Popular Piano Techniques

(1)

Prerequisite: 343C or consent of instructor. Keyboard harmony, styles, and concepts employed in the commercial and popular music fields. Activity 2 hours.

• MUS 367B - Jazz, Rock, and Popular Piano Techniques

(1)

Prerequisite: 343C or consent of instructor. Keyboard harmony, styles, and concepts employed in the commercial and popular music fields. Activity 2 hours.

• MUS 367C - Jazz, Rock, and Popular Piano Techniques

(1)

Prerequisite: 343C or consent of instructor. Keyboard harmony, styles, and concepts employed in the commercial and popular music fields. Activity 2 hours.

• **MUS 368A - Jazz Improvisation**

(2)

Prerequisites: MUS 161C, MUS 162C. Basic improvisation technique, including scales, chords, simple harmonic progressions, and standard blues literature characteristic of jazz idiom. Meets 3 hours weekly.

• **MUS 368B - Jazz Improvisation**

(2)

Prerequisite: MUS 368A. Continuation of development of improvisational techniques with emphasis on standard jazz literature. Meets 3 hours weekly.

• **MUS 369 - Music Technology II**

(2 Units)

Prerequisites: MUS 161C, 162C, 243C. Continuing preparatory class in computer usage, computer sequencing, computer notation, MIDI and synthesizer basics, other music software and hardware, and basic music recording principles.

• **MUS 370 - History of Music in Western Civilization I**

(4)

Prerequisites: 261C, 262C, and 170. Survey of music in general culture, emphasizing evolution of musical style and practice.

• **MUS 371 - History of Music in Western Civilization II**

(4)

Prerequisites: 261C, 262C, and 170. Survey of music in general culture, emphasizing evolution of musical style and practice.

• **MUS 372 - History of Music in Western Civilization III**

(4)

Prerequisites: 261C, 262C, and 170. Survey of music in general culture, emphasizing evolution of musical style and practice.

• **MUS 380 - Beginning Conducting**

(3)

Prerequisites: MUS 261C, 262C. Elements of baton techniques, interpretation, score reading, and rehearsal techniques utilizing suitable choral and instrumental literature. Meets 4 hours weekly.

• **MUS 384 - Introduction to Commercial Songwriting**

(2)

Prerequisite: MUS 261C, MUS 262C, MUS 366, MUS 368A Introduction to the techniques of contemporary commercial songwriting. Melodic,

harmonic and lyric writing in the context of contemporary popular music.

- **MUS 385 - Introduction to Film Scoring**

(2)

Prerequisite: MUS 261C, MUS 262C, MUS 362, MUS 366. Introduction to the techniques of composing music for film and television.

- **MUS 386 - Introduction to Recording**

(2)

Introduction to the techniques of analog and digital recording.

- **MUS 387 - Lead Sheet and Chart Writing for Commercial Music**

(3)

Prerequisite: MUS 261 C, MUS 262 C. MUS 366. Techniques of creating and reading lead sheets and chord charts for commercial music. Students will also learn to translate between different styles of chord chart, including Nashville style and classical figured bass, and to transcribe.

- **MUS 388 - Introduction to the Business of Music**

(2)

Prerequisite: MUS 261C, MUS 262C An introduction to the legal and business practices of the music industry. Topics include: copyright, record contracts, band agreements, licensing material, unions, digital publishing, ownership rights, film and television music, and basic music practices.

- **MUS 390 - Performance Techniques for the Recording Studio**

(2)

Prerequisite: MUS 169. Introduction to the techniques of musical performance in the recording studio environment.

- **MUS 400 - Elementary Classroom Music**

(3)

Investigation of the perceptual, expressive, historical and cultural components of music relevant to the elementary classroom. Meets 4 hours weekly.

- **MUS 401 - Elementary General Music Techniques**

(3)

Prerequisites: MUS 261C and 262C. Comparison of ideas and practices relevant to the teaching of elementary general music in grades K-12. Observation and participation laboratory provided.

- **MUS 402 - World Musics**

(3)

Prerequisites: MUS 161C and 162C. Introduction to musical styles of world cultures with emphasis on theory, forms, instruments and sociological implications. Influence of world musics on popular musical styles.

• **MUS 405A - Approaches to Piano Teaching.**

(3)

Prerequisite: MUS 345. Approaches to Piano Teaching.

• **MUS 405B - Materials for Beginning/Intermediate Piano Students**

(3)

Prerequisite: MUS 345. Observation of teaching.

• **MUS 406 - Comparative Vocal Techniques**

(3)

Prerequisite: MUS 330. Comparative analysis of theories of vocal production as applied to the child voice, changing voice, and mature voice; study of the literature for each category.

• **MUS 407 - Instrumental Techniques I**

(3)

Prerequisite: Completion of 312 series or equivalent knowledge of orchestral instruments. Comparison of ideas and practices relevant to the teaching of instrumental music at the elementary and junior high school levels. Observation and participation in laboratory provided. Lecture 2 hours, activity 2 hours.

• **MUS 408 - Choral Techniques**

(3)

Prerequisites: MUS 261C, 262C, 330, 480. Period, style, form, and other technical aspects of literature suitable for various types of vocal ensembles, and analysis of performance problems. Lecture 2 hours, activity 2 hours.

• **MUS 409 - Instrumental Techniques II**

(3)

Prerequisite: Completion of 312 series or equivalent knowledge of orchestral instruments. Comparison of ideas and practices relevant to the teaching of instrumental music at the high school level. Observation and participation in laboratory provided. Lecture 2 hours, activity 2 hours.

• **MUS 411 - Performance Repertoire**

(1)

Prerequisite: Completion of 200-level studio lessons with B or better, or admission to BM or MM degree program. Solo repertoire for voice, brass, winds, percussion, strings, or piano; emphasis on analysis, interpretation, and performance of representative literature. May be repeated to maximum of 12 units.

- **MUS 415A - Strings**

(1)

Prerequisite: MUS 315A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to a maximum of 6 units.

- **MUS 415B - Strings**

(2)

Prerequisite: For students in BM degree programs. MUS 315B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, acoustic guitar, electric guitar, electric bass, and harp. May be repeated to maximum of 6 units.

- **MUS 416A - Woodwinds**

(1)

Prerequisite: MUS 316A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. May be repeated to a maximum of 6 units.

- **MUS 416B - Woodwinds**

(2)

Prerequisite: For students in BM degree programs. MUS 316B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, and saxophone. May be repeated to maximum of 6 units.

- **MUS 417A - Brass**

(1)

Prerequisite: MUS 317A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to a maximum of 6 units

- **MUS 417B - Brass**

(2)

Prerequisite: For students in BM degree programs. MUS 317B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to maximum of 6 units.

- **MUS 418A - Percussion**

(1)

Prerequisite: MUS 318A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to a maximum of 6 units.

- **MUS 418B - Percussion**

(2)

Prerequisite: For students in BM degree programs. MUS 318B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, timpani, and Latin percussion. May be repeated to maximum of 6 units.

- **MUS 420A - String Ensemble: Orchestral Instruments**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 4 hours weekly.

- **MUS 420B - String Ensemble: Guitars**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of standard guitar ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 4 hours weekly.

- **MUS 421A - Woodwind Ensemble: For mixed woodwind instruments (for example, flute; oboe; clarinet and bassoon; and flute trios).**

(1)

Prerequisite: Instructor Consent Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

- **MUS 421B - Woodwind Ensemble: For clarinet choir, clarinet, and saxophone trios.**

(1)

Prerequisite: Instructor Consent Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

- **MUS 422 - Brass Ensemble**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

- **MUS 423B - Percussion Ensemble: Latin Percussion**

(1)

Prerequisite: Instructor's consent. Rehearsal and performance of Latin-American percussion music using traditional Latin American percussion instruments. Historical background and instrument maintenance will be covered. May be repeated to a maximum of twelve units. Meets a minimum of four hours weekly.

- **MUS 424 - Jazz Ensemble**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of standard Jazz orchestra literature, including original and published arrangements. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

- **MUS 425 - Chamber Singers**

(1)

Prerequisite: Instructor consent by audition. Choral music from 15th century to present with special attention to madrigals; music of all styles for choral ensemble of twenty or less. Concerts on and off campus. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

• **MUS 426 - Opera Repertory, Performance, and Production**

(1)

Prerequisite: Instructor consent. Training in the preparation and performance of operatic repertory. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

• **MUS 427 - Afro-Latin Ensemble**

(1)

Prerequisite: Consent of instructor. Rehearsal and performance of Latin-Jazz including Afro-Cuban music as well as rhythms from other Latin-American countries for a medium size ensemble. May be repeated to a maximum of 12 units.

• **MUS 428 - New Music Ensemble**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of 20th century chamber music literature with special emphasis on recent works and student compositions. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

• **MUS 429 - Jazz Ensemble: Small**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of jazz literature for small ensemble (2-9 players) in a variety of combinations. May be repeated to maximum of 12 units.

• **MUS 430 - Mariachi Ensemble**

(1)

Prerequisite: Consent of instructor. Rehearsal and performance of music in the Mariachi tradition with an emphasis on its historical and cultural development. May be repeated to a maximum of 12 units.

• **MUS 432 - Computer Notation**

(2)

Prerequisites: MUS 369. Methods in the utilization of computer music software for professional music manuscript preparation. Lecture 1 hour, activity 2 hours.

• **MUS 434 - Introduction to Phonetics for Musicians**

(2)

Introduction to International Phonetics Alphabet and its symbols and sounds, prepares students for success in any specific language diction course; through lectures, listening, speaking, translating and transcribing song texts. Lecture: 1 hour, activity 2 hours

- **MUS 435A - Voice**

(1)

Prerequisite: MUS 335A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to a maximum of 6 units.

- **MUS 435B - Voice**

(2)

Prerequisite: For students in BM degree programs. MUS 335B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of voice. May be repeated to maximum of 6 units.

- **MUS 436F - French Diction for Singers**

(2)

Prerequisite: MUS 434 or equivalent. Thorough study of phonemes of French language via phoneticization (I.P.A.), vocalization, and interpretive expression of text. Application to song and operatic repertoire with open-class recital at conclusion of quarter. Lecture 1 hour, activity 2 hours.

- **MUS 436G - German Diction for Singers**

(2)

Prerequisite: MUS 434 or equivalent. Thorough study of phonemes of German language via phoneticization (I.P.A.), vocalization, and interpretive expression of text. Application to song and operatic repertoire with open-class recital at conclusion of quarter. Lecture 1 hour, activity 2 hours.

- **MUS 436I - Italian Diction for Singers**

(2)

Prerequisite: Instructor Consent, MUS 434 or equivalent. Thorough study of phonemes of Italian language via phoneticization (I.P.A.), vocalization, and interpretive expression of text. Application to song and operatic repertoire with open-class recital at conclusion of quarter. Lecture 1 hour, activity 2 hours.

- **MUS 436S - Spanish and English Diction for Singers**

(2)

Prerequisite: MUS 434 or equivalent. Thorough study of phonemes of Spanish and English languages via phoneticization (I.P.A.), vocalization, and interpretive expression of text. Application to song and operatic repertoire with open-class recital at conclusion of quarter. Lecture 1 hour, activity 2 hours.

- **MUS 437A - Song Repertoire and Interpretation – French**

(2)

Prerequisite: Upper division standing. Survey of French language song literature in all periods of music history. Emphasis on student performances of representative selections.

- **MUS 437B - Song Repertoire and Interpretation – German**

(2)

Prerequisite: Upper division standing. Survey of German language song literature in all periods of music history. Emphasis on student performances of representative selections.

• **MUS 437C - Song Repertoire and Interpretation - English and Italian**

(2)

Prerequisite: Upper division standing. Survey of English and Italian language song literature in all periods of music history. Emphasis on student performances of representative selections.

• **MUS 440 - BM Senior Recital**

(0) units

Prerequisites: Consent of major professor. Senior level standing in applied music study. Corequisites: One of the following: MUS 415, 416, 417, 435, 445, 446. Performance of a 50 minute Senior Recital.

• **MUS 441 - BA Senior Recital**

(0) units

Prerequisites: Consent of major professor. Senior level standing in applied music study. Corequisites: One of the following: MUS 415, 416, 417, 435, 445, 446. Performance of a 20 minute Senior Recital.

• **MUS 444 - Commercial Music Ensemble**

(1)

Prerequisite: Instructor consent. Rehearsal and performance of commercial songs and material including but not limited to the blues, classic rock `n` roll, acid rock, heavy metal, folk rock standards, current popular music, and original material. Meets a minimum of three hours weekly. May be repeated to a maximum of twelve units.

• **MUS 445A - Piano**

(1)

Prerequisite: MUS 345A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to a maximum of 6 units.

• **MUS 445B - Piano**

(2)

Prerequisite: For students in BM degree programs. MUS 345B or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of piano. May be repeated to maximum of 6 units.

• **MUS 446A - Organ**

(1)

Prerequisite: MUS 346A or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of organ. May be repeated to a maximum of 6 units.

- **MUS 447 - Accompanying**

(2)

Prerequisite: Instructor consent. Training in performance styles of different periods and combinations of performers and in the specific tasks of accompanying. Practical experience through guided performance with vocalists and instrumentalists. Meets 4 hours weekly. May be repeated to maximum of 6 units.

- **MUS 448 - Live Concert Recording**

(4)

Prerequisite: MUS 386. Introduction to the techniques of recording live music.

- **MUS 452 - History of Jazz**

(4)

Nature and processes of jazz with concentration on its historical background and development in the U.S., and its resultant impact on culture and music worldwide.

- **MUS 454L - Special Topics in Music**

(1–4)

Prerequisites: Upper division standing; specific prerequisites subject to course content. Selected topics reflecting specific issues, problems, and interests in music, as announced in Schedule of Classes. May be repeated to maximum of 12 units as subject matter changes.

- **MUS 454P - Special Topics in Music**

(1–4)

Prerequisites: Upper division standing; specific prerequisites subject to course content. Selected topics reflecting specific issues, problems, and interests in music, as announced in Schedule of Classes. May be repeated to maximum of 12 units as subject matter changes.

- **MUS 458 - Music of Latin America**

(4)

Prerequisite: MUS 150. Development of understanding of and appreciation for music of Latin America; examination of representative works from folk and art music of the twenty republics.

- **MUS 460 - Composition**

(3)

Prerequisites: MUS 261C, 262C and 362. Writing for small instrumental and/or vocal ensembles. May be repeated to maximum of 18 units.

- **MUS 462 - Advanced Orchestration and Arranging**

(3)

Prerequisite: MUS 362. Survey of techniques necessary for orchestrating compositions for symphonic band and symphony orchestra; special attention given to problems encountered in public school bands and orchestras.

- **MUS 463 - Counterpoint**

(3)

Prerequisites: MUS 261C, 262C. Eighteenth century contrapuntal techniques, including some work in the species; invertible counterpoint, motive development, two- and three-part inventions, and the fugue.

- **MUS 464 - Musical Form**

(3)

Prerequisites: MUS 261C, 262C. Analytic techniques for study of balance in organization of musical material.

- **MUS 465 - Contemporary Techniques**

(4)

Prerequisites: MUS 261C, 262C. Techniques used in contemporary composition.

- **MUS 466A - Jazz Arranging: Beginning**

(3)

Prerequisite: MUS 368C. Basic arranging techniques. Emphasis on arranging for small jazz ensembles with practical writing experience. Will cover voicings, scoring practices, calligraphy and contemporary trends within the medium.

- **MUS 466B - Jazz Arranging: Advanced**

(3)

Prerequisite: MUS 466A. Advanced arranging techniques for jazz and studio orchestras, including use of extended forms, woodwind doubles and unusual meter. May be repeated to maximum of 9 units.

- **MUS 467 - Music Composition for Television and Films**

(3)

Prerequisites: MUS 366, 462, 469. Techniques used in composing music for television and film productions; practical writing experience.

- **MUS 468 - Jazz Pedagogy**

(3)

Prerequisite: MUS 368C or instructor consent. Techniques and materials for teaching jazz improvisation, jazz arranging, jazz history, and jazz ensemble.

- **MUS 469 - Music Technology III**

(3)

Prerequisites: MUS 362, 369. Computer music composition and arranging; recording, sequencing, editing, mixing, sound sources. Lecture 2 hours, activity 2 hours.

• **MUS 470 - History and Literature of Opera**

(4)

Prerequisites: MUS 370, 371, and 372. Development of opera from Baroque to present; discussion and analysis of representative opera texts and scores with emphasis on visual experience.

• **MUS 471 - History and Literature of Large Vocal Forms**

(4)

Prerequisites: MUS 370, 371, and 372. Development of large vocal forms from Baroque to present; discussion and analysis of representative works including masses, cantatas, and oratorios.

• **MUS 472 - History and Literature of Vocal Solo Music**

(4)

Prerequisites: MUS 370, 371, and 372. Development of solo song from Baroque to present; discussion and analysis of representative art songs and vocal chamber music.

• **MUS 473 - History and Literature of Symphonic Music**

(4)

Prerequisites: MUS 370, 371, and 372. Development of symphonic music from pre-classicism to present; discussion and analysis of representative orchestral scores.

• **MUS 474 - History and Literature of Chamber Music**

(4)

Prerequisites: MUS 370, 371, and 372. Development of instrumental chamber music from Renaissance to present; discussion and analysis of representative works.

• **MUS 477 - History and Literature of Wind Band in U.S.**

(4)

Prerequisites: MUS 370, 371, and 372. History of wind band in U.S.; emphasis on twentieth century literature.

• **MUS 479 - Music Theory Review**

(4)

Prerequisites: MUS 261C and 262C, or consent of instructor. Comprehensive review of the principles of music theory and analysis. Designed particularly for returning students who need to review the principles of music theory and analysis. Does not fulfill MA or MM degree requirements.

• **MUS 480 - Choral Conducting**

(3)

Prerequisite: MUS 380. Application of basic conducting techniques to problems of choral conducting. May be repeated to maximum of 9 units. Meets 4 hours weekly.

- **MUS 481 - Instrumental Conducting**

(3)

Prerequisite: MUS 380; 312 recommended. Experience offered in transposition, score reading, baton technique, and interpretation of symphonic literature; recognition of psychologically sound rehearsal procedure. Meets 4 hours weekly.

- **MUS 484 - Commercial Songwriting**

(3)

Prerequisites: MUS 261C, 262C, 362, 366, 368AB. Techniques of songwriting. Melodic, harmonic writing with lyrics in the context of contemporary commercial music.

- **MUS 485 - Chamber Music**

(1)

Study and performance of selected works from the duo, trio, quartet, or larger chamber ensemble literature. Activity 4 hours. May be repeated to maximum of 12 units.

- **MUS 486 - Recording Techniques**

(2)

Prerequisite: Upper division standing. Techniques of audio recording currently in use in studio and concert settings. Multitrack and master recording using digital and analog formats. May be repeated to maximum of 6 units.

- **MUS 486B - Advanced Recording Techniques**

(4)

Prerequisite: MUS 486A. Advanced concepts of modern recording and mixing practice.

- **MUS 487 - Senior Project**

(1–4)

Prerequisite/Corequisite: MUS 261C, MUS 372. Project in lieu of a recital for students enrolled in the Bachelor of Arts, General Option. The project is selected in consultation with the major adviser. May be repeated to a maximum of 4 units. Graded CR/NC.

- **MUS 488 - Music Technology IV**

(3)

Prerequisite: MUS 469. Advanced computer music composition; digital recording, editing, mixing, sound sources. Continuation of MUS 469. Lecture 2 hours, activity 2 hours.

- **MUS 489 - Instructional Technology for the Music Educator**

(3)

Prerequisite: MUS 261C. Computer applications for musicians, familiarity with available software, integrating computer technology into the music classroom and the development of a teaching module. Lecture 2 hours, activity 2 hours.

- **MUS 490 - Music for Early Childhood**

(4)

Prerequisites: EDFN 413, CHDV 220, PSY 412A. Music activities suitable for the young child. Includes five field trips for observation of children in preschool or kindergarten and primary situations. May not be taken in lieu of MUS 400.

- **MUS 493 - Solfege I**

(3)

Prerequisite: MUS 261C. Introduction to the pentatone through ear training, sight singing, reading, writing, and interval study. Explores pentatonic melodies with tonal counters on do, la, re and sol. Introduction to the Curwen hand signs.

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HELP

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Music (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

• MUS 494 - Kodaly Methodology Level I

(4)

Prerequisite: MUS 401. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level I presents pedagogy for preschool through grade 2. Additional 15 contact hours required for national certification. Lecture 3 hours, activity 2 hours.

• MUS 495 - Orff-Schulwerk Certification Level I

(4)

Prerequisite: MUS 401. Basic Orff pedagogy for working with pentatonics on do and la, beginning movement experiences and introduction to the soprano recorder. Follows AOSA guidelines for Level I certification. Lecture 3 hours, activity 2 hours.

• MUS 496 - Demonstration of Competencies in Music Education

(1)

A capstone examination in which students must demonstrate musical competency in five areas: senior recital, piano proficiency, conducting skills, ear training/ sightsinging, and music history and theory.

• MUS 498 - Cooperative Education (see UNIV 498)

(2)

Cooperative Education

• MUS 499 - Undergraduate Directed Study

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated to a maximum of 12 units for credit.

Music (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

Classified graduate standing in Music or equivalent music background is required for admission to all 500 level courses.

• MUS 500 - Research Techniques in Music

(2)

Basic bibliography, survey of literature, methods of research in music and music education, and practice in organizing and reporting data, both oral and written.

• MUS 501 - Psychology of Music

(4)

Prerequisites: MUS 497, introductory course in psychology or educational psychology, at least 30 units in music. Musical personality, perception of musical characteristics, musical taste, and theories of learning applied to music; survey of standardized tests of musical aptitude and achievement.

• MUS 502 - Seminar: Music Education

(4)

Prerequisites: MUS 497, baccalaureate with major in music education, at least one year of teaching experience. Evaluation of research and various philosophies, methods, and trends in music education.

• MUS 503 - Musics in World Cultures for the Music Educator

(4)

Gaining knowledge and understanding of musics of nonwestern origin through experiences in listening and active participation. Curriculum development projects in multicultural music education for students in K-12 programs.

• MUS 504 - Evaluation and Testing in Music

(4)

Measurement and evaluation of music behaviors. Acquaints students with standardized tests in music aptitude and achievement. Emphasizes teacher-made tests measuring cognitive psychomotor and affective outcomes.

• MUS 507 - Seminar: Vocal Techniques

(4)

Prerequisite: MUS 406. Seminar and critique on psychophysiological approach to vocal techniques. Designed for experienced teachers, soloists, and choir directors. Individual research and class demonstration.

• MUS 509 - Seminar: Instrumental Music Education

(4)

Prerequisites: MUS 407 or 409; 497. Survey and criteria for selection and interpretation of instrumental music.

- **MUS 510 - Graduate Choral Ensemble**

(1)

Prerequisite: Instructor consent by audition. Student will be required to perform additional duties such as: conducting sectionals, preparation of program notes. May be repeated to a maximum of 9 units.

- **MUS 511 - Graduate Instrumental Ensemble**

(1)

Prerequisite: Instructor consent by audition to Symphonic Band or Symphony Orchestra. Student will be required to perform additional duties such as: conducting sectionals, preparation of program notes. May be repeated to a maximum of 9 units.

- **MUS 519A - Applied Music: Orchestral Instruments**

(1)

Prerequisite: Jury examination or audition. Private instruction at the graduate level in technique, repertoire, literature, and pedagogy. May be repeated to a maximum of 6 units.

- **MUS 519B - Applied Music: Instrumental**

(2)

Prerequisite: For students in MM degree programs. Jury examination or audition. Private instruction (at the graduate level in technique, repertoire, literature, and pedagogy). May be repeated to maximum of 6 units.

- **MUS 520 - Applied Music: Conducting**

(2)

Prerequisite: Instructor consent. Private instruction in score preparation and conducting technique as applied to specific literature for band, orchestra, choir, or other selected ensembles. May be repeated to maximum of 6 units.

- **MUS 530A - Advanced Style Analysis: Chronological Survey to 1700.**

(4)

Prerequisites: MUS 464, 465. Advanced analytical techniques applied to study of musical styles as related to period, genre, geographic region, and individual composers.

- **MUS 530B - Advanced Style Analysis: From 1700 to the Present**

(4)

Prerequisites: MUS 464, 465. Advanced analytical techniques applied to study of musical styles as related to period, genre, geographic region, and individual composers.

- **MUS 530C - Popular Music Style Analysis**

(4)

Prerequisite: Admission to the M.M. Commercial Music option or permission of the Instructor. Advanced analytical techniques applied to the study of popular music styles as related to period, genre and individual composers.

- **MUS 535A - Applied Music: Voice**

(1)

Prerequisite: Jury examination or audition. Private instruction at the graduate level in technique, repertoire, literature, and pedagogy. May be repeated to a maximum of 6 units.

- **MUS 535B - Applied Music: Voice**

(2)

Prerequisite: For students in MM degree programs. Jury examination or audition. Private instruction at the graduate level in technique, repertoire, literature, and pedagogy. May be repeated to maximum of 6 units.

- **MUS 545 - The Business of Music**

(3)

Review of contracts, copyright, licensing, unions and basic business practices used in the commercial music industry.

- **MUS 546 - Seminar: Commercial Music**

(4)

Prerequisite: MUS 545. Practical, theoretical, and philosophical approaches for achieving success as a professional musician in the commercial music industry; emphasis on discourse with professionals in Los Angeles.

- **MUS 547A - Advanced Orchestration and Arranging for Contemporary Media: Small Sized Combinations**

(4)

Prerequisites: MUS 462, 466B, 484, 488. Advanced techniques in arranging and orchestrating music for film, radio and television commercials, and records; emphasis on writing for medium-sized (4-8) MIDI instruments and live instrumental ensembles.

- **MUS 547B - Advanced Orchestration and Arranging for Contemporary Media: Medium Sized Combinations**

(4)

Prerequisite: MUS 547A. Advanced techniques in arranging and orchestrating music for film, radio commercials, and records; emphasis on writing for medium-sized (9-24) instrumental and vocal ensembles with MIDI instruments included.

- **MUS 548 - Advanced Orchestration and Arranging for Afro-Latin Ensembles**

(4)

Prerequisite: MUS 362 or equivalent. Study of advanced arranging and orchestrational techniques used in Afro-Latin music ensembles. Idiomatic writing for Afro-Latin instruments such as tumbadoras, timbales, bongos and maracas.

- **MUS 549A - Applied Music, Keyboard Instruments**

(1)

Prerequisite: Jury examination or audition. Private instruction at the graduate level in technique, repertoire, literature, and pedagogy. May be repeated to a maximum of 6 units.

- **MUS 549B - Applied Music: Keyboard Instruments**

(2)

Prerequisite: For students in MM degree programs. Jury examination or audition. Private instruction (at the graduate level in technique, repertoire, literature, and pedagogy. May be repeated to maximum of 6 units.

- **MUS 551 - Music Practicum**

(1)

Prerequisites: Graduate standing in music or instructor approval. Integrated theoretical and practical approaches to rehearsal and performance issues in graduate instrumental or vocal music.

- **MUS 552 - Music Internship**

(1 -3)

Prerequisites: Graduate standing and instructor approval. Graduate internships in professional music environments, including: commercial music; music production; music management; music education; or collaborative music-making (on or off campus). May be repeated to a maximum of 7 quarters (or up to 14 units total)

- **MUS 557 - Seminar: Afro-Latin Music**

(4)

Prerequisite: Instructor's consent. Study of practical, theoretical and philosophical topics concerning Afro-Latin music; emphasis on discourse with professional musicians in Los Angeles. May be repeated to a maximum of 8 units.

- **MUS 558 - Histories and Literature of Afro-Latin Music**

(4)

Prerequisite: MUS 458. Study of representative composers and music from the various Afro-Latin cultures. The course includes stylistic, formal, and thematic score analysis of representative works from the music literature.

- **MUS 559 - History and Literature of American Popular Music**

(4)

Prerequisite: Consent of Instructor. Development of American popular music from the 18th century to the present. Study of representative composers and songs. Analysis of repertoire, form genre, style and performance.

- **MUS 560 - Advanced Composition**

(4)

Prerequisite: MUS 460. Free composition in selected vocal and instrumental forms. May be repeated to maximum of 12 units.

- **MUS 568 - Seminar: Performance**

(4)

Prerequisite: 400-level applied music course. Student performance with critiques highlighting stylistic, aesthetic, and practical components that influence musical performance; artist performances (taped or live) and critiques; preparation of graduate recital.

- **MUS 569 - Seminar: Composition**

(4)

Prerequisites: MUS 497, 560. Philosophies and aesthetic theories involved in contemporary music; compositional problems and projects of an advanced nature intended to synthesize previous creative skills and techniques. May be repeated to maximum of 8 units.

- **MUS 572 - Music of Baroque Period**

(4)

Characteristics of Baroque music; analysis of representative works and performance practices; music in relation to Baroque arts and society.

- **MUS 573 - Music of Classic Period**

(4)

Characteristics of Classic period; analysis of representative works; music in relation to 18th century arts and society.

- **MUS 574 - Music of Romantic Period**

(4)

Characteristics of Romantic period; analysis of representative works; music in relation to 19th century arts and society.

- **MUS 575 - 20th Century Music to 1945**

(4)

Characteristics of 20th century music from 1900 to 1945; analysis of representative works; music in relation to early 20th century arts and society.

- **MUS 576 - 20th Century Music Since 1945**

(4)

Characteristics of 20th century music from 1945 to present; analysis of representative works; music in relation to avant-garde arts and society.

- **MUS 581 - Advanced Instrumental Conducting**

(4)

Prerequisite: MUS 481. Analysis and preparation for conducting major works for symphonic band and orchestra. May be repeated to maximum of 8 units.

- **MUS 582 - Music Technology V**

(3)

Prerequisite: MUS 488. Advanced sound design and production; the uses of Pro Tools for music composition and arranging.

- **MUS 583 - Seminar: Conducting**

(4)

Prerequisites: MUS 480 or 481; 580 or 581; 508; 509;497. Conducting topics; study of literature, analytical procedures, and rehearsal techniques applicable to choral and instrumental conducting. May be repeated to maximum of 12 units.

- **MUS 586 - Kodaly Methodology Level II**

(4)

Prerequisite: MUS 494. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level II presents pedagogy for grades 3-5. Additional fifteen contact hours required for national certification. Lecture 3 hours, activity 2 hours.

- **MUS 587 - Orff-Schulwerk Certification Level II**

(4)

Prerequisite: MUS 495. Basic Orff pedagogy for working with modal music, folk dance in 5 and 7 meters and introduction to the alto recorder. Follows AOSA guidelines for Level II certification. Lecture 3 hours, activity 2 hours.

- **MUS 588 - Kodaly Methodology Level III**

(4)

Prerequisite: MUS 586. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level III presents pedagogy for middle school and high school instruction. Additional fifteen contact hours required for national certification. Lecture 3 hours, activity 2 hours.

- **MUS 589 - Orff-Schulwerk Certification Level III**

(4)

Prerequisite: MUS 587. Orff pedagogy for major-minor, the addition of tenor and bass recorders and a teaching practicum of original music and movement. Follows AOSA guidelines for Level III certification. Lecture 3 hours, activity 2 hours.

- **MUS 592 - Advanced Film Scoring, Songwriting and Music Production**

(4 units)

Prerequisites: MUS 467, 481, 484, and 488. Intensive scoring, songwriting, and music production techniques for students with previous experience. Enhanced sound and production skills. Specific relationships between music and film will be explored. Lecture: 3 hours, activity 2 hours.

- **MUS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

- **MUS 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 12 units.

- **MUS 599 - Thesis or Project**

(1–4)

Prerequisites: MUS 497, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 4 units. Graded CR/NC.

Multimedia Courses

- **MM 450A - Introduction to Multimedia: Planning a Multimedia Product**

(4)

Prerequisite: Completion of Skill Set requirement for multimedia minor and permission of Multimedia Minor Coordinator. Introduction to the tools and techniques used in multimedia. Team skill assessment. Selection, preliminary design, and planning for this year's product.

- **MM 450B - Designing and Developing a Multimedia Product**

(4)

Prerequisite: MM 450A completed the previous quarter with a grade of B- or better. The class will work as a team to complete the detailed design and develop the components for the Multimedia product planned during the previous quarter in MM 450A.

- **MM 450C - Integration and Post-Production for a Multimedia Product**

(4)

Prerequisite: MM 450B completed the previous quarter with a grade of B- or better. Using the components and framework developed during the previous quarter in MM 450B, the class will work as a team to integrate, edit, test, revise, polish, package, and otherwise complete the development of this year's Multimedia product.

Natural and Social Sciences (Undergraduate)

- **NSS 101 - Introduction to Higher Education: Living an Examined Life**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Graded ABC/NC

Freshmen IHE and Block E

- **NSS 301 - Transition to Cal State L.A. for Natural and Social Science Majors**

(2)

Exploration of skills and resources that will help the transfer student attain degree objectives. This course fulfills the University requirement for an introduction to higher education course for transfer students. NIS account required. Graded ABC/NC.

- **NSS 354 - Special Topics**

(1–4)

Prerequisite; varies with topic. Topics of special interest to wide university audience as announced in Schedule of Classes. May be repeated for credit as topic changes.

- **NSS 454 - Special Topics in Natural and Social Sciences**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in Natural and Social Sciences, as announced in the Schedule of Classes. May be repeated to a maximum of 8 units for credit

Natural Science (Undergraduate)

- **NATS 180 - Motion and Energy for Elementary Teachers**

(3)

Primarily for the Elementary Subject Matter program. Basic concepts in motion, energy, heat, sound light and electricity, which are correlated with the California science standards for the Multiple Subject credential. Topics illustrated by activities and demonstrations. Lecture 2 hours, activity 2 hours. Students may not receive credit for both NATS180 and NATS185.

- **NATS 181 - Structure and Properties of Matter for Elementary Teachers**

(3)

Primarily for the Elementary Subject Matter Program. Basic concepts in chemistry, which are correlated with the California science standards for the Multiple Subject credential. Topics illustrated by activities and demonstrations. Lecture 2 hours, activity 2 hours.

- **NATS 182 - Topics in Space Science for Elementary Teachers**

(2)

Primarily for students preparing for the Multiple Subject credential. Basic facts and concepts about the Universe required by California science standards for the Multiple Subject credential. Topics illustrated by activities and demonstrations. Lecture 1 hour, activity 2 hours.

- **NATS 183 - Earth Science for Elementary Teachers**

(4)

Primarily for students preparing for the Multiple Subject credential. Basic concepts in earth science correlated with the California science standards for the Multiple Subject credential. Topics illustrated by demonstrations and activities. Lecture 3 hours, activity 2 hours. Some sections of the course may be taught online.

- **NATS 398 - Field Observations in Science Education**

(2)

Early field experiences of science education in 9th-12th grade schools, activities conducted in the course correlate with content/concepts from the California standards for professional teacher preparation programs.

NATS 461 - Topics in Physical Science Content and Pedagogy

(4)

Prerequisite: Completion of the GE natural science Block B. Topics in physical science are presented that illustrate both content and pedagogy appropriate for K-6 teachers. Lecture 3 hours, activity 2 hours.

• NATS 462 - Topics in Life Science Content and Pedagogy

(4)

Prerequisite: Completion of the GE natural science Block B. Topics in life science are presented that illustrate both content and pedagogy for K-6 teachers. Lecture 3 hours, activity 2 hours.

• NATS 495 - Natural Science Field Studies

(4)

Prerequisites: Completion of Natural Science core requirements and adviser approval. Interdisciplinary application of the concepts of science for field and laboratory studies of the physical and biological environments. Lecture 2 hours, Laboratory 6 hours.

• NATS 496A - Natural Science Field Studies and Pedagogy

(3)

Prerequisites: Completion of the Natural Science core requirements, approval of the Natural Science adviser, admission to the Single Subject credential program, EDSE 401, EDSE 415. Design and proposal of an interdisciplinary science field/laboratory project and a related secondary instructional unit. Strategies, objectives, and methods of teaching science in the urban setting. Lecture 1 hour, Laboratory 6 hours.

• NATS 496B - Natural Science Field Studies and Pedagogy

(3)

Prerequisite: NATS496A. Carry out and present the results of an interdisciplinary science field/laboratory project. Create a related secondary instructional unit and peer-teach selected lessons. Strategies, objectives, and methods in the teaching of science in the urban setting. Lecture 1 hour, Laboratory 6 hours.

Nursing (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser:

• NURS 100 - Introduction to Professional Nursing Process and Skills I

(2)

Prerequisite: Admission to the Generic Nursing program. Corequisites: NURS 105, 214, 272, 273. Introduction to nursing process, documentation, nursing informatics, comfort measures and medical/surgical asepsis, self care, safety, pain management, elimination, hygiene, mobility, sleep, wound care, nutrition and methods of feeding.

• NURS 105 - Introduction to Professional Nursing Process and Skills Laboratory I

(1)

Prerequisites: Admission to the Generic Nursing program. Corequisites: NURS 100; 214; 272; 273 and all required clinical documentation per student handbook. Clinical application of nursing therapeutics: nursing process, documentation, comfort measures and medical/surgical asepsis. Concepts of safety, elimination, hygiene, mobility and sleep and nutrition are included.

• **NURS 210 - Introduction to Professional Nursing Process and Skills II**

(3)

Prerequisites: NURS 100; 105; 214; 272; and 273; NTRS 317 or 250. Corequisites: NURS 211, 215 and 250. The nursing process will be the foundation for providing care to patients experiencing fluid/electrolyte imbalance, metabolic and musculoskeletal dysfunction and rehabilitation. Includes principles of pharmacology and I.V. therapeutics.

• **NURS 211 - Introduction to Professional Nursing Process and Skills Laboratory II**

(3)

Prerequisites: NURS 100; 105; 214; 272; and 273. Corequisites: NURS 210, 215 and 250. Simulated/practical laboratory and clinical experience in caring for patients with electrolyte imbalance, endocrine and musculoskeletal dysfunction including the administration of medications and I.V. therapeutics.

• **NURS 214 - Introduction to the Art and Science of Nursing**

(3)

Prerequisites: Admission to the Generic Nursing program. Corequisites: NURS 100, NURS 105, NURS 272, NURS 273. Introduction to professional and clinical issues in nursing practice with a focus on coping with requirements of daily living during hospitalization.

• **NURS 215 - Clinical Introduction to Professional and Clinical Practice Issues**

(1)

Prerequisites or Corequisites: COMM 150, NURS 214, SOC 201. Corequisites: NURS 210, 211. Structured clinical activities and experiences focused on professional and caregiver role development.

• **NURS 216 - Nursing Care of Women, Child-bearing Families and Infants**

(3)

Prerequisites: NURS 224, 225; PSY 160, SOC 201. Corequisite: NURS 217. Assessment and clinical management of women, childbearing families and infants.

• **NURS 217 - Nursing Care of Women, Child-bearing Families and Infants Lab**

(3)

Prerequisites: NURS 224, 225. Corequisite: NURS 216. Nursing care of women, childbearing families, and infants based on analysis of self-care requirements.

• **NURS 218 - Information Literacy for Nurses**

(1)

Prerequisites: NURS100, NURS 105. Introduction to nursing information literacy and information needs relevant to nursing domains. Introduction to the process of efficiently searching, organizing, managing and evaluating evidence-based medical information in multiple formats.

• **NURS 220 - Nursing Care of Children**

(3)

Prerequisites: NURS 224, 225. Corequisite: NURS 221. Nursing care of children emphasizing health promotion and common health

disturbances.

- **NURS 221 - Nursing Care of Children Clinical Laboratory**

(3)

Prerequisites: NURS 224, 225; SOC 201. Corequisite: NURS 220. Clinical experience with children and their families in various settings emphasizing health promotion and common health deviations.

- **NURS 222 - Acute Professional Nursing Care of Adults I**

(3)

Prerequisites: NURS 210, 211, 250. Corequisite: NURS 223. Introduction to nursing care and management of the preoperative and intraoperative patient and patients with basic cardiovascular, respiratory, integumentary and hemopoietic dysfunction.

- **NURS 223 - Acute Professional Nursing Care of Adults Laboratory I**

(4)

Prerequisites: NURS 210, 211, 250. Corequisite: NURS 222. Practice, demonstration and application of clinical skills necessary to care for adults in acute care settings who are experiencing fluid and electrolyte, metabolic, hematopoietic, cardiovascular and/or respiratory physiological dysfunction and preoperative care.

- **NURS 224 - Acute Professional Nursing Care of Adults II**

(3)

Prerequisites: NURS 222, 223. Corequisite: NURS 225. Nursing assessment and management of adult patients experiencing oto-ophthalmic, genitourinary, gastrointestinal and hepatobiliary dysfunction including care of the adult during the post operative period.

- **NURS 225 - Acute Professional Nursing Care of Adults Laboratory II**

(4)

Prerequisites: NURS 222, 223. Corequisite: NURS 224. Practice, demonstration and application of clinical skills necessary to care for patients experiencing genitourinary, hepatobiliary, gastrointestinal, and oto-ophthalmic dysfunctions, includes care during the post operative period.

- **NURS 250 - Introduction to Pathophysiology for Nursing Practice**

(4)

Prerequisites: BIOL 200A/B, CHEM 151, MICR 201,202. Corequisites: NURS210; 211; 215. Basic concepts of pathophysiologic alterations throughout the lifespan including cellular function and growth; integrative body functions. Beginning understanding of the pathophysiological rationale for nursing interventions.

- **NURS 254L - Selected Topics in Nursing**

(1-6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in Schedule of Classes. May be repeated for credit.

• **NURS 254P - Selected Topics in Nursing**

(1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in Schedule of Classes. May be repeated for credit.

• **NURS 272 - Introduction to Health Assessment and Promotion Across the Life Span**

(3)

Prerequisites: Admission to the Generic Nursing program. Corequisites: NURS 100, NURS 105, NURS 273. Required of Generic students only. Introduction to health assessment including: Vital sign assessment, history taking, physical assessment and examination and diagnostic testing, health promotion and patient education.

• **NURS 273 - Introduction to Health Assessment and Promotion Across The Life Span Laboratory**

(2)

Prerequisites: Admission to the Generic Nursing program. Corequisites: NURS 100;105; 214; 272. Required of Generic students only. Clinical demonstration and practice of vital sign assessment, history taking, physical assessment techniques and examination, diagnostic testing, health promotion, and patient education.

• **NURS 280 - Contemporary Nursing**

(2)

Prerequisite: HHS 101 (or equivalent). A survey of nursing in contemporary society, including historical perspectives, current trends, and scope of nursing education and practice.

• **NURS 300 - Acute Nursing Care of Adults III**

(3)

Prerequisites: All 200 level Nursing courses. Corequisite: NURS 301. Advanced theoretical and clinical nursing interventions, for the care of adults with complicated, acute and chronic problems in neurological, integumentary, neoplastic/immune and /or multisystem failure and/or dysfunction.

• **NURS 301 - Acute Nursing Care of Adults Laboratory III**

(3)

Prerequisites: All 200 level Nursing courses. Corequisite: NURS 300. Practice, demonstration and application of advanced theoretical and clinical nursing interventions, necessary for adults with complicated, acute and chronic neurological, integumentary, neoplastic/immune, and/or multisystem failure and/or dysfunction.

• **NURS 307 - Physiology and Psychology of Violence and Aggression**
(cross-listed as PSY 307)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychobehavioral approaches to violent individuals; analysis of and research support for understanding the role diversity plays in intercultural and intergroup violence drawn from natural, medical, and behavioral sciences.

GE Theme B

• **NURS 308 - Psychophysiology of Substance Abuse and Violence**
(cross-listed as HS 308)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Physiological effects of abused substance; examination of connection between substance abuse and violent behavior.

GE Theme B

• **NURS 318 - Nursing Care of Psychiatric Patients**

(3)

Prerequisites: NURS 224, 225. Corequisite: NURS 319. Introduction to nursing practice in a variety of psychiatric care settings caring for patients with problems in social and psychological functioning.

• **NURS 319 - Psychiatric Clinical Nursing Lab**

(3)

Prerequisites: NURS 224, 225. Corequisite: NURS 318. Clinical experience in a variety of settings implementing the nursing process in the area of adult patient/clients demonstrating deficits in social and psychological functioning.

• **NURS 320 - Fundamentals of Nursing**

(5)

Prerequisites: Admission to the Entry Level Master's or Entry Level Bachelor's Program in Nursing. Corequisites: NURS 321, 328, and 362. Introduction to professional and clinical issues in nursing. Theoretical and conceptual approaches to nursing, the nursing process, basic nursing skills, communication, legal/ethical issues, culture and client education concepts.

• **NURS 321 - Practicum: Fundamentals of Nursing**

(5)

Prerequisite: Admission to the Entry Level Master's or Entry Level Bachelor's Program in Nursing. Corequisite: NURS 320, 328, and 362. Structured, clinical activities and experience focused on application of professional and care giver role including clinical skills, medication administration, and use of nursing process.

• **NURS 322 - Nursing Care of Adults and Older Adults**

(6)

Prerequisites: Completion of NURS 320, 321, 328, and 362. Corequisites: NURS 323, 360, and 424. Nursing process in the care of adults and older adults experiencing health deviations in various body systems and across diverse health care settings.



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HELP

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Nursing (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser:

• NURS 323 - Practicum: Nursing Care of Adults and Older Adults

(6)

Prerequisites: NURS 320, 321, 324, 325, 328, 360, 362, 424, and 434. Corequisites: NURS 322, 440, and 441. Clinical practice in the care of adults and older adults experiencing health deviations across diverse health settings including application managed care and case management strategies.

• NURS 324 - Nursing Care of Women, Childbearing Families and Infants

(4)

Prerequisites: Completion of NURS 320, 321, 322, 323, 328, 360, 362, and 424. Corequisites: NURS 325, 326, 327, and 434. Introduction to family nursing; assessment and nursing care of women, childbearing families and infants.

• NURS 325 - Practicum: Nursing Care of Women, Childbearing Families, and Infants

(3)

Prerequisites: Completion of NURS 320, 321, 322, 323, 328, 360, 362, and 424. Corequisites: NURS 324, 326, 327, and 434. Clinical practice in the care of women and their families during the childbearing cycle.

• NURS 326 - Nursing Care of Children

(3)

Prerequisites: Completion of NURS 320, 321, 322, 323, 328, 360, 362, and 424. Corequisites: NURS 324, 325, 327, and 434. Nursing care of children emphasizing health promotion and common health deviations.

• NURS 327 - Practicum: Nursing Care of Children

(3)

Prerequisites: Completion of NURS 320, 321, 322, 323, 328, 360, 362, and 424. Corequisite: NURS 324, 325, 326, and 434. Patient care experiences with children encountering common health deviations in various settings.

- **NURS 328 - Pathophysiology**

(3)

Prerequisites: Admission to the Entry Level Master's or Entry Level Bachelor's Program in Nursing. Corequisites: NURS 320, 321, and 362. The pathogenesis of clinical findings in health deviations, emphasis on pathophysiologic basis for nursing diagnosis and interventions during deviations from normal body system functioning.

- **NURS 330 - Human Reproductive Health**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Physical health needs and issues, emphasizing the reproductive systems for women and men across the age span; overview of physiology, pathophysiology, diagnostic technologies, and therapeutic management of common health problems.

GE Theme C

- **NURS 346 - Family Nursing**

(3)

Prerequisite: Admission into the RN-BSN program. Theoretical foundations of family nursing and its application to the nursing process with families.

- **NURS 348A - Development for Professional Practice**

(4)

Prerequisites: Transfer RN nursing students, background check, personal health insurance and health clearance documentation. Socialization and development into professional nursing roles including the nurse as professional, advocate, provider, and coordinator of care. Focus on nursing process and selected issues in professional practice.

- **NURS 349A - Development for Professional Practice Laboratory**

(1)

Prerequisites: Registered Nurse license, malpractice insurance. Corequisite: NURS 348A. Application of nursing process for professional practice within a self-care framework to patient care situation in clinical setting.

- **NURS 350 - Pathophysiology For Nursing Practice**

(4)

Prerequisite: BIOL 200B; CHEM 151, MICR 201, 202. Corequisite: RN-BSN Transfer students only. Course builds upon the student's prior foundation of concepts of disease process throughout the lifespan including cellular function and integrative body functions. Focus on the pathophysiologic rationale for nursing interventions.

- **NURS 354L - Selected Topics in Nursing**

(1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in Schedule of Classes. May be repeated for credit.

• **NURS 354P - Selected Topics in Nursing**

(1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in Schedule of Classes. May be repeated for credit.

• **NURS 355 - Strategies for Preventing and Intervening in Family Violence and Abuse (also crosslisted as SW 355)**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block D. Major theories used to explain family violence; emphasis on preventing abuse and intervening with victims across the age span; social, policy, and legal issues.

GE Theme B

• **NURS 360 - Pharmacology**

(2)

Prerequisite: Admission to the Nursing Program. Basic principles and contemporary issues in pharmacology for nurses; major drug classifications, mechanism of drug action and nursing implications throughout the nursing process.

• **NURS 362 - Health Assessment and Health Promotion Across the Life Span**

(3)

Prerequisite: Admission to the Entry Level Master's or Entry Level Bachelor's Program in Nursing. Corequisites: NURS 320, 321, and 328. Health Assessment including history taking and physical examination; principles of health promotion across the life span.

• **NURS 372 - Health Assessment and Promotion Across the Life Span**

(3)

Prerequisites: RN-BSN transfer students only; NURS 348A. Corequisite: NURS 373. Health assessment including history taking, physical examination and diagnostic testing; principles of health promotion across the life span and concepts of patient education.

• **NURS 373 - Health Assessment and Promotion Across the Life Span Laboratory**

(2)

Prerequisites: RN-BSN transfer students only; NURS 348A. Corequisite: NURS 372. Health assessment including history taking, physical examination and diagnostic testing, health promotion and patient education experiences in a variety of settings.

• **NURS 393 - Health Assessment and Health Promotion in Community Setting Laboratory**

(2)

Prerequisites: NURS 300, 301, 346, 272 or 373. Prerequisite or corequisite: NURS 394. Application of nursing concepts for the care of clients with chronic illness and/or disabilities outside of acute care settings, focusing on treatment adherence, coping and adaptation.

- **NURS 394 - Nursing Concepts in Health Promotion: Prevention, Treatment and Adherence**

(4)

Prerequisites: NURS 346, NURS 272 or 372; SOC 201.

The development of strategies for assisting populations, across the age span, with self-care actions focused on promoting health, facilitating treatment adherence, coping and adaptation. A focused concentration on populations with chronic illnesses.

- **NURS 398 - Cooperative Education**
(see UNIV 398)

(2)

Cooperative Education

- **NURS 402A - Fundamentals of Electrocardiography**

(2)

Fundamentals of vector analysis of the 12 lead electrocardiogram and basic arrhythmia detection.

- **NURS 402B - Advanced Electrocardiography**

(2)

Prerequisite: NURS 402A. Advanced electrocardiography including detailed evaluation of 12 lead electrocardiogram in determining axis changes, conduction defect, cardiovascular hypertrophies, location of myocardial infarction, differentiation of complicated arrhythmias, and selected electrolyte and drug effects.

- **NURS 423 - Nursing in School Health Programs Clinical Laboratory**

(6)

Prerequisites or corequisites: NURS 426, 428; COMD 440; admission to Health Services credential program. Clinical school nursing experience with multicultural and ethnic students in elementary, secondary, and special education settings under direction of credentialed school nurse preceptor.

- **NURS 424 - Introduction to Nursing Research**

(3)

Prerequisites: Completion of NURS 320, 321, 328, and 362. Corequisites: NURS 322, 323, and 360. Introduction to the nursing research process with application of the process to clinical practice. Reading, critiquing and utilization of nursing research.

- **NURS 434 - Nursing Case Management of Clients with Chronic Illness Across the Life Span**

(4)

Prerequisites: Completion of NURS 320, 321, 322, 323, 328, 360, 362, and 424. Corequisites: NURS 324, 325, 326, 327. Nursing case management role, models and strategies for chronically ill clients; effects of chronic illness and comprehensive care coordination.

- **NURS 440 - Psychiatric and Mental Health Nursing**

(3)

Prerequisites: Completion of NURS 300 series, NURS 424, and 434. Corequisites: NURS 441, 442, and 443. Nursing process in the care of clients with deviations in social and psychological functioning.

- **NURS 441 - Practicum: Psychiatric and Mental Health Nursing**

(3)

Prerequisites: Completion of 300 series, NURS 424, and 434. Corequisites: NURS 440, 442, and 443. Clinical experience in a variety of settings implementing the nursing process with clients demonstrating deviations in social and psychological functioning.

- **NURS 442 - Community Health Nursing**

(5)

Pre-requisites: NURS 300 course series, NURS 424, and 434. Corequisite: NURS 440, 441, and 443. Synthesis of nursing theories and public health science applied to assessing and promoting the health of at risk populations: communities, families and aggregates.

- **NURS 443 - Practicum: Community Health Nursing**

(4)

Prerequisites: Completion of NURS 300 course series, NURS 424, and 434. Corequisite: NURS 440, 441, and 442. Nursing in the community: experiences in home health, family focused care, and population based nursing in the community.

- **NURS 444 - Advanced Nursing Concepts and Leadership**

(4)

Prerequisite: NURS 300 course series, NURS 424, and 434. Corequisite: NURS 445, and 498. Advanced clinical nursing: principles of nursing leadership; care of hospitalized adults experiencing complex, acute and chronic multidimensional health problems including neurological, renal, integumentary, neoplastic, and immune diseases, or multi-system failure.

- **NURS 445 - Practicum: Advanced Nursing Concepts and Leadership**

(4)

Prerequisite: Completion of NURS 300 course series, NURS 424, 434, 440, 441, 442, and 443. Corequisite: NURS 444, and 498. Practicum in nursing leadership and care of patients with acute and chronic complex medical surgical conditions; basic skills for critical care nursing and end-of-life care.

- **NURS 450 - Nursing Leadership and Management Dynamics**

(2)

Prerequisites: Completion of 300 level courses. Corequisite: NURS 451. Introduction to the organizational theory and socioeconomic political trends in nursing leadership and management. Skills and competencies for the frontline nurse manager with-in and beyond the wall of the acute care setting.

- **NURS 451 - Nursing Leadership and Management Dynamics Laboratory**

(2)

Prerequisites Completion of 300 level courses. Corequisite: NURS450. Application of organizational theory in health care settings. Development of skills and competencies for the frontline nurse manager with-in and beyond the wall of the acute care setting.

- **NURS 454L - Selected Topics in Nursing**

(1-6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students announced in Schedule of Classes. May be repeated for credit.

- **NURS 454P - Selected Topics in Nursing**

(1-6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students announced in Schedule of Classes. May be repeated for credit.

- **NURS 468 - Legal Aspects of Health Care Provision in California**

(3)

Prerequisite: Professional experience or upper division standing in a health related program. Exploration of legal aspects of health care provision: intentional torts, negligence and malpractice, practice acts, ethical-legal conflicts, and litigation procedure.

- **NURS 470 - Community/Public Health Nursing**

(4)

Prerequisite: Completion of 300-level nursing courses or approval of instructor. Corequisite: NURS 471. Synthesis of nursing theories and public health science applied to assessing and promoting the health of communities and aggregates at risk in the population, including the risks to communities from bio-terrorism.

- **NURS 471 - Community/Public Health Nursing Lab**

(4)

Corequisite: NURS 470 and access to an insured automobile. Application of the nursing process, levels of prevention and public health theories and strategies in vulnerable clients, families, and aggregates.

- **NURS 476 - Nursing and the Health Care System**

(2)

Prerequisites: Completion of all 300-level nursing courses or approval of instructor. Forces shaping health care delivery and their influences on the delivery of nursing care in today's dynamic health care arena. Nursing strategies for cost-effective care that increases access and ensures quality care. Some sections may use technologically mediated instruction.

- **NURS 480 - Assessment and Care of Patients' Spiritual Needs**

(4)

Exploration of individual's spiritual needs in health care, and how spiritual care may be closely integrated with that of body and mind.

- **NURS 486 - Transition to Nursing Professional Practice**

(2)

Corequisite: NURS 487. Capstone course that integrates clinical decision making, critical thinking skills and theoretical knowledge for the

professional transition into nursing practice. Focuses on integration, reflection and preparation for the professional role. Graded CR/NC.

• **NURS 487 - Transition to Nursing Professional Practice Laboratory**

(4)

Prerequisites: Completion of lower division nursing courses and completion of medication administration exam with a minimum score of 90%. Co-requisite: NURS 486. Clinical decision making and the integration of advanced medical-surgical nursing skills with selected patients in acute care settings is the focus of this capstone preceptor practicum. Graded CR/NC.

• **NURS 490 - Introduction to Nursing Research**

(4)

Prerequisites: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR) and a statistics course that included inferential statistical content. Nursing research process and concepts applicable to clinical practice, reading, analyzing and critiquing research; development of skills in writing professional nursing papers according to the conventions of the genre. Some sections may use technologically mediated instruction.

• **NURS 496 - Nursing Case Management for Vulnerable Populations**

(2)

Prerequisites: NURS 476, 470, 471, or consent of instructor. Corequisite: NURS 497. Nursing case management roles, models, and strategies used for managing high-risk client populations. Focus on comprehensive care coordination: brokerage, monitoring, discharge planning, client/family advocacy, and nursing interventions. Courses stress: access, quality, and risk management.

• **NURS 497 - Nursing Case Management of Vulnerable Populations Lab**

(2)

Corequisite: NURS 496. Clinical nursing case management laboratory for high-risk clients with complex health care problems. Focus on comprehensive care coordination: Brokerage, monitoring, discharge planning, client/family advocacy, and nursing interventions.

• **NURS 498 - Advanced Cooperative Education**

(see UNIV 498)

(1–4)

Advanced Cooperative Education

• **NURS 498E - ELMN Cooperative Education**

(3)

Prerequisites: NURS 326/327, NURS 444/445; approval by the major department Cooperative Education coordinator. Transition to Practice for ELMN (Entry Level Masters in Nursing), program participation in work experience integrated with academic program; facilitates transition to practice as a graduate nurse; minimum of 10 hours per week required for each unit. Student may apply for maximum of 3 units toward graduate degree program. Graded CR/NC

• **NURS 499 - Undergraduate Directed Study**

(1–6)

Prerequisites: Instructor consent to act as sponsor; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected with sponsor before registration; progress meetings held regularly. May be repeated to 20 units.

Nursing (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

. NUBS 615 - Epidemiology and Clinical Prevention

(3*)

Prerequisite: Admission to the DNP program. Epidemiological principles and approaches to health and illness in at-risk populations. Epidemiological models are used to determine population needs and promote interventions to enhance health-related quality of life and prevent illness. May use technologically mediated instruction.

*Semester units

. NURS 502 - Role Development of the Advanced Practice Nurse

(3)

Prerequisites: Admission into graduate program in nursing or consent of instructor. Examination of advanced nursing practice roles within acute and primary care settings; critical analysis of issues related to legal scope of practice, licensure, certification, quality improvement, and reimbursement. Some sections may use technologically mediated instruction.

. NURS 504 - Research Utilization in Nursing Practice

(2)

Prerequisite: NURS 592 Application of available knowledge to improve client outcomes using the research utilization process. Some sections may use technologically mediated instruction.

. NURS 510 - Development and Evaluation of Nursing Curricula

(3*)

Prerequisite: Admission to the DNP Program. Reviews the major components of, and processes for, curriculum development and program evaluation. Students analyze a curriculum and utilize a program evaluation model to recommend curricular revisions. May use technologically mediated instruction.

*Semester units

. NURS 512 - Instructional Design in Nursing Education

(3*)

Prerequisite: NURS 510. Focuses on behavioral, cognitive, constructivist learning theories, related concepts and their implications for course design and instructional strategies to include teaching modalities for both in-person and online environments and evaluation of student learning. May use technologically mediated instruction.

*Semester units

. NURS 512A - Primary Care of Adults with Acute Health Problems

(4)

Prerequisite: NURS 572B. Theories and research related to health promotion and disease prevention, assessment, differential diagnosis, management, and education of adults with acute, episodic health problems in ambulatory care clinics.

- **NURS 512B - Care of Aging Adults**

(3)

Prerequisites: NURS 518A and NURS 519A. Corequisite: NURS 513B. Theory and research related to assessment, diagnosis, and management of problems specific to aging clients with emphasis on chronic disease management as well as the socioeconomic, political, environmental, and cultural influence affecting care of older clients.

- **NURS 513A - Practicum: Primary Care of Adults with Acute Health Problems**

(4)

Prerequisite: NURS 573B. Clinical application of theory and research of health care to adult clients with acute, episodic health problems in ambulatory clinics.

- **NURS 513B - Care of Aging Adults Practicum**

(4)

Prerequisite: NURS 513A. Corequisite: NURS 512B. Assessment, diagnosis, management and education/ counseling of aging clients in outpatient clinics and long-term care facilities with an emphasis on clinical decision-making, health promotion, and disease complication prevention.

- **NURS 513C - Care of Adults with Chronic Health Care Problems Practicum**

(4)

Prerequisites: NURS 572A, and 573A or consent of instructor. Corequisite: NURS 520. Clinical application of assessment, diagnosis, management, and education/counseling of adults with chronic health problems with an emphasis on lifestyle change, health promotion, and disease prevention in the students' selected specialty.

- **NURS 516 - Nurse Educator Practicum**

(3*)

Prerequisites: NURS 510, NURS 512. The course focuses on application of theories and concepts in curriculum development, evaluation, instructional strategies and student evaluation in nursing education. Students work with an experienced nurse educator in an academic or agency setting under the supervision of the instructor. Group discussions may be on-line or face-to-face.

*Semester units

- **NURS 516A - Advanced Acute Care Management I for the Adult Gerontology Acute Care Nurse Practitioner**

(5)

Prerequisites: NURS 566, 572A, 573A, 528, 573B. Corequisite: NURS 517A This evidence-based theory course examines the diagnosis and management of adult and gerontology patients with both acute and chronic disorders involving the cardiovascular, pulmonary, endocrine and gastrointestinal systems.

- **NURS 516B - Advanced Care Management II for the Adult Gerontology Acute Care Nurse Practitioner**

(5)

Prerequisites: NURS 516A, 517A. Corequisite: NURS 517B. This evidence-based theory course examines the diagnosis and management of adult and gerontology patients with both acute and chronic disorders involving shock, the neurological and renal/genitourinary systems and

numerous emergency states.

- **NURS 516C - Advanced Acute Care Management III for the Adult-Gerontology Acute Care Nurse Practitioner**

(5)

Prerequisites: NURS 516A, 517A, 516B, 517B. Corequisite: NURS 517C. This evidence-based theory course examines the diagnosis and management of adult and gerontology patients with both acute and chronic disorders involving common problems in acute care, immunologic/autoimmune diseases and psychosocial health issues.

- **NURS 517A - Advanced Practicum I for the Adult-Gerontology Acute Care Nurse Practitioner**

(4)

Prerequisites: NURS 566, 572A, 573A, 528, 573B. Corequisites: NURS 516A. This clinical application course for Adult-Gerontology Acute Care Nurse Practitioner students emphasizes advanced assessment, differential diagnosis, management, treatment and education/counseling of adults and families with acute illnesses.

- **NURS 517B - Advanced Practicum II for the Adult-Gerontology Acute Care Nurse Practitioner**

(4)

Prerequisites: NURS 517A. Corequisites: NURS 516B. This clinical application course for Adult-Gerontology Acute Care Nurse Practitioner students emphasizes advanced assessment, differential diagnosis, management, treatment and education/counseling of adults and families with acute illnesses.

- **NURS 517C - Advanced Practicum III for the Adult-Gerontology Acute Care Nurse Practitioner**

(4)

Prerequisites: NURS 517B. Corequisites: NURS 516C, 525. This clinical application course for Adult-Gerontology Acute Care Nurse Practitioner students emphasizes advanced assessment, differential diagnosis, management, treatment and education/counseling of adults and families with acute illnesses and injury.

- **NURS 518A - Primary Care of the Adult Client**

(4)

Prerequisite: NURS 578, 573B, and 573C. Corequisite: NURS 519A. Theoretical basis for Family Nurse Practitioner assessment, diagnosis, and management of culturally diverse adults and families with acute and episodic problems, with emphasis on health promotion and disease prevention.

- **NURS 518B - Primary Care of Children**

(4)

Prerequisites: NURS 578, 573B, and 573C. Corequisite: NURS 519B. Family Nurse Practitioner health promotion and disease prevention, assessment, differential diagnosis and management of culturally diverse children and their families with acute and chronic problems in the primary care environment.

- **NURS 518D - Women's Health Care**

(3)

Prerequisites: NURS 573B, 524, 525. Corequisites: NURS 518a, 519a. Management of gynecological concerns common to culturally diverse women and their families in the primary care setting. Role of the nurse practitioner in women's health.

• **NURS 519A - Primary Care of the Adult Practicum**

(3)

Prerequisite: NURS 578, 572, 573B, and 573C. Corequisite: NURS 518A. Application of the theoretical and research-based assessment, diagnosis, and management of culturally diverse adults and families with acute and episodic problems, with emphasis on health promotion and disease prevention.

• **NURS 519B - Primary Care of Children Practicum**

(3)

Prerequisites: NURS 578, 573B, 573C. Corequisite: NURS 522C. Clinical practice application of knowledge in the assessment, diagnosing, management of health concerns relating to culturally diverse children and their families in the primary care setting.

• **NURS 519C - Adolescent and Young Adult Health Care Practicum**

(3)

Prerequisites: NURS 578, 573B, 573C. Corequisite: NURS 522C. Clinical application of assessment, diagnosis, management, and health promotion of culturally diverse adolescents, young adults, and their families in the primary care setting.

• **NURS 519D - Women's Health Practicum**

(3)

Prerequisites: NURS 578, 572, 573B, and 573C. Corequisite: NURS 518D. Clinical application of assessment, diagnosis and management of culturally diverse women with gynecological health concerns in the primary care setting.

• **NURS 520 - Care of Adults with Chronic Health Problems**

(3)

Corequisite: NURS 516A. Assessment, differential diagnosis, management, and education/counseling of adults and families with chronic health problems with an emphasis on lifestyle change, health promotion, and disease complication prevention.

• **NURS 522A - Primary Care of Children with Acute Health Problem**

(4)

Prerequisite: NURS 572A. Corequisite: NURS 523A. Assessment, diagnosis and management of children with acute health problems and of their families, within primary care settings; health promotion, disease prevention, and multidimensional problems management strategies.

• **NURS 522C - Primary Care of Adolescents**

(2)

Prerequisite: NURS 573B. Corequisite: NURS 523C. Assessment, diagnosis, management of adolescents with special health problems and their families within primary care settings; health promotion, disease prevention, and multidimensional problems; management strategies.

- **NURS 523A - Primary Care Practicum: Children with Acute Illness**

(3)

Corequisite: NURS 522A. Application of assessment knowledge and skills to appraise children and their families' health status; identification of acute health problems within primary care settings; management using multidimensional intervention strategies. Graded CR/NC.

- **NURS 523B - Primary Care Practicum: Children with Chronic Illness**

(3)

Corequisite: NURS 522B. Application of knowledge and skills to appraise children and their families' health status; identification of chronic health problems within primary care settings, management using multidimensional intervention strategies. Graded CR/NC.

- **NURS 523C - Primary Care Practicum: Adolescents**

(3)

Corequisite: NURS 522C. Application of assessment knowledge and skills to appraise adolescents' and their families' health status within primary care settings. Identification of health problems, management using multidimensional intervention strategies. Graded CR/NC.

- **NURS 524 - Care of Vulnerable Populations**

(4)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Examination of major health problems of vulnerable children, adults, and families from urban, underserved communities; assessment of risk factors; exploration of multidimensional, culturally-sensitive intervention strategies. Some sections may use technologically mediated instruction.

- **NURS 525 - Capstone Practicum in Vulnerable Populations**

(2)

Prerequisite: Completion of all course work prior to the final quarter of study. Capstone practicum experience for all nurse practitioner options with emphasis placed on application of epidemiological model and provision of health care to clients from select vulnerable populations. Graded CR/NC.

- **NURS 526 - Advanced Nursing Management in Public Schools**

(5)

Prerequisite: Admission into Health Services Credential program or School Health Option. A theory-based course focusing on the roles and scope of practice of the school nurse as a manager and advocate within the organization and management of school health services. Special emphasis will be on the California Department of Education's curriculum requirements for Drug and Alcohol Education in the K-12 educational setting.

- **NURS 528 - Advanced Pharmacology**

(5)

Prerequisites: NURS 572A and NURS 573A. Pharmacokinetic principles and pharmacotherapeutic agents for promotion, prevention, diagnosis, and treatment of common client conditions encountered in primary care and acute health care settings. Some sections may use technologically mediated instruction.

- **NURS 529 - Advanced Pediatrics Clinical Practicum**

(3)

Prerequisites: NURS 522C, 524. A preceptored clinical practicum designed to enhance the application of theory and acquisition of clinical skills in pediatric primary care settings. Graded CR/NC.

- **NURS 530 - Advanced Nursing Assessment in Public Schools**

(5)

Prerequisites: Admission into Health Services Credential program or School Health Option. This course focuses on the assessment and management of physical, psychosocial, environmental, and educational requisites, processes, and selected needs of the student.

- **NURS 542A - Diagnosis and Individual Psychotherapy in Psychiatric Nursing**

(3)

Prerequisite: Acceptance into a Psychiatric/Mental Health Nursing Option. Corequisite: NURS 595
Analysis of theories of individual psychotherapy; development of eclectic models; assessment and diagnostic criteria for psychiatric disorders and mental health problems; case formulation; and application of appropriate psychiatric/mental health nursing interventions models.

- **NURS 542B - Group Psychotherapy and Psychoeducation in Psychiatric Nursing**

(3)

Prerequisite: NURS 542A. Corequisite: NURS 595. Study and analysis of theories of group psychotherapy and theories of psychoeducation; development of eclectic models; application of appropriate models to development of psychiatric/mental health nursing interventions.

- **NURS 542C - Psychiatric Nursing of Children and Adolescents**

(2)

Prerequisite: NURS 542A. Co-requisite: NURS 543. This course provides the Psychiatric Family Nurse Practitioner Student with advanced understanding of the diagnosis, management and treatment of the child and adolescent with diagnosis of a psychiatric disorder.

- **NURS 542D - Family, Community and Agency Interventions in Psychiatric Nursing**

(3)

Prerequisites: NURS 542A, NURS 542B, and NURS 542C. A course that addresses advanced psychiatric nursing evidenced based interventions with clients that are other than individuals. Students will learn principles of family development and family therapy. The course will address psychiatric nursing interventions for psychiatric units, general hospitals, outpatient clinics or practices, and community agencies such as schools. Students will learn how to access community and agency resources that are required to promote healthy change.

- **NURS 543 - Advanced Psychiatric/Mental Health Nursing Across the Life Span Practicum**

(1-4)

Clinical application of theoretical and evidence based strategies for clinical decision making in the assessment, diagnosis, and management of culturally diverse clients across the life span with problems in psychological, emotional, or social functioning who are being cared for by mental health providers. Must be repeated to maximum of 13 units.

- **NURS 545 - International Health Care Experience**

(1)

Prerequisites: NURS 578, 524, 525 or permission of faculty. Student/faculty clinical application of assessment, diagnosis, management, and education/counseling of indigenous clients in their environment outside of the United States. Minimum B grade required for passing. May be

repeated up to 3 units.

• **NURS 560A - Development of Educational Programs in Nursing I**

(3)

Prerequisites: EDFN 510; NURS 592; One year of clinical experience as RN. Development of nursing educational programs in collegiate, staff development and client settings; roles of nurse educator including instruction and evaluation roles.

• **NURS 560B - Development of Education Programs in Nursing II**

(3)

Prerequisites: EDFN 510; NURS 560A, NURS 592. Development of nursing educational program in collegiate, staff development and client settings; conceptual models for organization of nursing curricula; issues and trends in nursing education.

• **NURS 562 - Human Resource Utilization in Health Care Organizations**

(2)

Analysis of procedures in health care personnel practices: licensure, recruitment, hiring, staffing, continuing education, performance evaluation, incentive plans; changing roles among health care personnel.

• **NURS 564 - Seminar: Health Care Administration**

(2)

Corequisite: NURS 595. Administrative issues in health care settings: goal complexity, power distribution, administrative-professional conflict, decision-making process, introduction of change; systems concept as assessment tool; interdependence of management team members in a health agency.

• **NURS 564A - Advanced Concepts in Health Care Leadership and Management I**

(4)

Prerequisites: MGMT 500, MGMT 578. Corequisites: NURS 595 (Advanced Field Study I). An overview of theories and concepts necessary for effective health care supervision and management with emphasis on patient/client safety within and outside of the hospital. All sections use technologically mediated instruction.

• **NURS 564B - Advanced Concepts in Health Care Leadership and Management II**

(4)

Prerequisites: NURS 564 A and NURS 595 (Advanced Field Study I). Corequisites: NURS 595 (Advanced Field Study II). Principles of human resource management, economics, quality outcome measurement, management and patient safety are applied to case-based analysis at the unit-level of hospital and health care organizations. All sections use technologically-mediated instruction.

• **NURS 566 - Advanced Pathophysiology**

(4)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Physical disease processes within human body; body's adaptive physiologic mechanisms resulting from pathophysiologic alterations; rationale for clinical intervention. Some sections may use technologically mediated instruction.

• **NURS 572A - Advanced Health Assessment and Health Promotion**

(4)

Prerequisite: NURS 566. Corequisite: NURS 573A. Advanced health assessment of clients from holistic and contextual perspectives; analysis of physical, psychosocial, developmental, and environmental needs and processes of clients across the life span. Major health promotion strategies.

• **NURS 572B - Developmental Assessment and Health Promotion**

(2)

Corequisite: NURS 572A. Developmental theories and tasks, nursing assessment strategies and health promotion in clients across the life span, as appropriate for advanced practice nurses.

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HELP

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Nursing (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

• **NURS 573A - Advanced Health Assessment and Health Promotion Laboratory**

(1)

Prerequisite: Successful completion of recent physical assessment course. Corequisite: NURS 572A. Clinical application of theory and research focusing on advanced assessment skills essential to practice in students' area of specialization.

• **NURS 573B - Advanced Health Assessment and Health Promotion Practicum**

(3)

Prerequisite: NURS 573A. Application of advanced comprehensive health assessment and health promotion knowledge and skills to clients in selected adult or pediatric inpatient and/or outpatient clinical settings.

• **NURS 573C - Advanced Health Assessment and Health Promotion Practicum**

(1)

Prerequisites: NURS 572 and 578. Corequisite: NURS 573B. Application of advanced comprehensive health assessment and health promotion knowledge and skills to culturally diverse families in primary health care settings.

• **NURS 578 - International Health Perspectives**

(3)

Prerequisite: For Family Nurse Practitioner students only. Global nurse practitioner practice, meeting health care needs unique to developing, underserved nations and international travelers. Includes assessment, diagnosis, and management of tropical disease and health promotion/disease prevention.

• **NURS 590 - Nursing Research Methods**

(4)

Prerequisite: NURS 592. Research designs and methodologies in nursing leading to proposal development. Some sections may use technologically mediated instruction.

• **NURS 592 - Theoretical Basis of Nursing Research and Practice**

(2)

Prerequisites: NURS 490 or equivalent and 4-unit statistics course. An introduction to analysis and evaluation of selected nursing and interdisciplinary theories and the relationship to nursing research and practice. Some sections may use technologically mediated instruction.

• **NURS 594 - Decision-Making in Nursing and Health Care Policy**

(3)

Prerequisite: Admission to graduate program or consent of instructor. Nursing decision-making for health care systems based on ethical, economical, legal, political and professional considerations; analysis of health care policy and role of nursing in changing health care delivery system. Some sections may use technologically mediated instruction.

• **NURS 595 - Advanced Field Study**

(1–15)

Corequisite: One NURS seminar selected from 506AB, 524; 542ABC, 560AB, 564, or enrollment in MS–Health Care Management program. Experience in specialized clinical and functional areas assigned on an individual basis. Weekly tutorial sessions required for student-teacher synthesis of data from concurrent seminar and field experience. Graded CR/NC.

• **NURS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **NURS 597 - Graduate Research**

(1–4)

Prerequisites: NURS 590 and instructor consent to act as sponsor. Independent research under guidance of faculty sponsor. May be repeated for credit. Graded CR/NR only.

• **NURS 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Directed study of advanced topics in field; regularly scheduled conferences with sponsor. May be repeated to maximum of 8 units.

• **NURS 599 - Thesis or Project**

(1–3)

Prerequisites: Advancement to candidacy, two units of NURS 597, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 3 units. Graded CR/NC.

Nursing (Doctoral)

• **NURS 600 - Biostatistics for Advanced Practice Nurses**

(3*)

Prerequisite: Acceptance into the DNP Program. Provides the necessary skills and knowledge to interpret research that employs multivariate statistical techniques. Topics include choosing correct statistical methods; descriptive, univariate, and multivariate statistics; probability; estimation and hypothesis testing; and use of a statistical software package. May use technologically mediated instruction.

*Semester units

• **NURS 605 - Advanced Evidence-Based Practice in Nursing**

(3*)

Prerequisite: Admission to the DNP program. Advanced research course focused on reading, interpreting, and evaluating studies using quantitative and qualitative methods in nursing and other health care disciplines; develop initial literature review for integrative scholarship proposal. May use technologically mediated instruction.

*Semester units

• **NURS 610 - Leadership, Management and Economics in Advanced Nursing Practice**

(3*)

Prerequisite: Admission to the DNP program. Emphasis on analyzing leadership theories and organizational models within healthcare delivery systems. Principles of change theory, financial management, strategic planning, program development and implementation are evaluated. Application focuses on fiscally sound leadership management in providing healthcare. May use technologically mediated instruction.

*Semester units

• **NURS 615 - Epidemiology and Clinical Prevention**

(3*)

Emphasis on application of epidemiological principles and approaches related to health and illness in at-risk populations. Epidemiological models and inquiry are used to determine population needs and promote interventions to enhance health-related quality of life and prevent illness.

*Semester units

• **NURS 620 - Informatics in Healthcare**

(3*)

Use of information systems/technology resources to implement quality improvement initiatives and support practice and administrative decision-making. Topics include standards and principles for selecting and evaluating information systems and patient care technology, and related ethical, regulatory, and legal issues.

*Semester units

• **NURS 630 - Healthcare Policy, Ethics, and Advocacy for Nurses**

(3*)

Prerequisite: Admission to the DNP program. Critical appraisal of how national and international health policies, advocacy efforts, ethics, and economics impact health care delivery and its outcomes and influence advanced practice nursing. May use technologically mediated instruction.

*Semester units

- **NURS 640 - DNP Clinical Practicum: Professional Role Development**

(3)*

Prerequisite: Admission to the DNP program. Supervised clinical opportunities in selected clinical settings to enhance professional role development in advanced nursing practice. Synthesis of prior graduate learning experience in student's specialty. May be repeated for credit up to 12 units.

*Semester units

- **NURS 697A - Integrative Clinical Scholarship I: Evidence-Based Practice**

(3*)

Prerequisite: NURS 605. Advanced research/laboratory course focused on analysis of role of DNP, role transition, interprofessional collaboration and leadership, clinical microsystems thinking, project development and management within healthcare systems. Includes development of DNP project proposal.

*Semester units

- **NURS 697B - Integrative Clinical Scholarship II: Evidence-Based Practice**

(3*)

Prerequisite: NURS 697A. Implementation of DNP project, within a clinical setting, using integration of theory and evidence-based change from nursing science and other disciplines. Emphasizes principles of practice inquiry and evidence-based practice,. Integration of core DNP concepts and competencies.

*Semester units

- **NURS 697C - Integrative Clinical Scholarship III: Evidence-Based Practice**

(3*)

Prerequisite: NURS 697B. Evaluation and completion of DNP project. Emphasizes incorporation of principles of practice inquiry, evidence-based practice, and/or practice inquiry. Integration of core DNP concepts and competencies.

*Semester units

Nutritional Science (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the School and approval of the graduate adviser: NTRS 419ABC, 419S, 479

- **NTRS 204A - Diet and Exercise for Weight Management**
(also listed as KIN 204A)

(1)

Evaluation of personal diet and exercise patterns. Development, implementation, and evaluation of an individualized diet and exercise plan for weight management. Brief examination of diet and exercise regimens for purposes of weight management; importance of combining a healthy diet and appropriate exercise in daily activities. May be repeated to a maximum of 8 units. (Activity 2 hours)

- **NTRS 210 - Foundations of Food**

(also listed as HS 438)

(4)

Introduction to foods as a profession. Principles and procedures of food preparation including selection, storage, food sanitation, product evaluation, and meal management. Lecture 2 hours, laboratory 5 hours.

• **NTRS 250 - Human Nutrition**

(4)

Nutrition and its relation to health, behavior, growth, development, and aging. No credit towards nutrition majors. Some of the sections of the course may be taught online.

• **NTRS 312 - Cultural Cuisine**

(4)

Prerequisite: NTRS 210. Cultural food patterns represented regionally, nationally and internationally; food choices, typical dishes, menus, nutritional aspects, purchasing, preparation techniques, equipment, and significance in cultural settings. Lecture 3 hours, laboratory 2 hours.

• **NTRS 315 - Communication Skills in Dietetics**

(3)

Prerequisites: NTRS 210, 317; PSY 150; COMM 150; admission to the Coordinated Dietetics Program (CDP). Basic communication skills needed by dietitian; sociopsychological aspects of nutritional care in outpatient or clinical setting. Lecture 1 hour, laboratory 6 hours.

• **NTRS 317 - Fundamentals for Human Nutrition**

(4)

Prerequisites: BIOL 200AB and CHEM 151. Scientific role of nutrients in the body and in development, growth and maturation. Some sections of this course may be offered online.

• **NTRS 351 - Adult Nutrition**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Nutritional needs and common diseases afflicting adults; promotion of adult health by nutritional intervention.

GE Theme F

• **NTRS 357 - The Changing Food Supply: Impact on Health**

(4)

Prerequisites: Completion of GE Basic Subjects (Block A) and one course from Block B. Changing food consumption patterns since our ancient ancestors, and the subsequent impact on health. Agricultural systems and food availability, and their impact on today's established cultural food habits will be explored. Some sections of this course may be taught online.

GE Theme I

• **NTRS 410 - Experimental Foods**

(4)

Prerequisites: NTRS 210, CHEM 152. Application of scientific principles to experimental methods in food preparation and recipe analysis. Lecture 2 hours, laboratory 6 hours.

- **NTRS 411 - Evaluation of Current Nutrition Concepts**

(4)

Prerequisite: NTRS 317. Interpretation of nutrition research findings and consideration of possible applications for individuals and population groups.

- **NTRS 413 - Maternal and Child Nutrition**

(4)

Prerequisite: NTRS 317. Nutritional requirements of pregnant women and of children; nutrition-related health considerations.

- **NTRS 414A - Institutional Food Service I**

(4)

Prerequisites: NTRS 210, NTRS 317, MICRO 151. Introduction to organization and management of quantity food service, including menu writing, food safety and quantity food preparation. Lecture 3 hours, laboratory 3 hours.

- **NTRS 414B - Institutional Food Service II**

(4)

Prerequisite: NTRS 414A. Experience in organization and management of quantity food service, incorporating menu writing, food safety and quantity food preparation, including equipment selection and institutional kitchen design. Lecture 2 hours, laboratory 6 hours.

- **NTRS 415A - Medical Nutrition Therapy**

(4)

Prerequisites: NTRS 210, 417B or concurrent enrollment in 417B. Nutritional intervention in disease processes; special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications. Lecture 3 hours, laboratory 3 hours.

- **NTRS 415B - Medical Nutrition Therapy**

(4)

NTRS 415A. Nutritional intervention in disease processes; special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications. Lecture 3 hours, laboratory 3 hours.

- **NTRS 416 - Child Nutrition**

(4)

Prerequisite: CHDV 200. Nutritional needs of pregnant and lactating women and of children from conception through adolescence; strategies for nutrition education in early childhood.

- **NTRS 417A - Advanced Nutrition I**

(4)

Prerequisites: NTRS 317, BIOL 200B, CHEM 353, MICR 151. Scientific bases for nutritional needs of humans; factors involved in meeting

such needs in individuals and population groups; metabolic factors in nutrition.

- **NTRS 417B - Advanced Nutrition II**

(4)

Prerequisites: NTRS 417A. Scientific bases for nutritional needs of humans; factors involved in meeting such needs in individuals and population groups; metabolic factors in nutrition.

- **NTRS 417L - Nutritional Assessment Laboratory**

(1)

Prerequisites: NTRS 317, BIOL 200B, CHEM 353, MICR 151, each with a minimum C grade. Laboratory experience in nutritional assessment using anthropometric, dietary, biochemical, and clinical tests and criteria.

- **NTRS 418 - Community Nutrition**

(4)

Prerequisite: NTRS 317. Community nutrition problems, agencies, and programs. Service learning course. Lecture 3 hours, activity 2 hours. A total of 40 hours of service learning required.

- **NTRS 419A - Supervised Practice in Dietetics**

(8)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419S. Intensive learning experiences in food service administration and nutritional intervention in hospitals, public health facilities, or other health care facilities. Supervised experience 24 hours weekly; concurrent weekly professional colloquium required.

- **NTRS 419B - Supervised Practice in Dietetics**

(8)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419S. Intensive learning experiences in food service administration and nutritional intervention in hospitals, public health facilities, or other health care facilities. Supervised experience 24 hours weekly; concurrent weekly professional colloquium required.

- **NTRS 419C - Supervised Practice in Dietetics**

(8)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419S. Intensive learning experiences in food service administration and nutritional intervention in hospitals, public health facilities, or other health care facilities. Supervised experience 24 hours weekly; concurrent weekly professional colloquium required.

- **NTRS 419S - Seminar: Dietetics**

(2)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419A, 419B, or 419C. Selected professional topics in food service administration and nutritional care.

- **NTRS 430 - Sports Nutrition**

(4)

Prerequisite: BIOL200AB or equivalent. Advanced topics in nutrition as related to athletic performance; current research on energy nutrient requirements and caloric distribution, fluid needs, ergogenic aids, supplementation, pre/post event meals, and biochemical pathways.

- **NTRS 434 - Management Principles in Dietetics**

(5)

Prerequisite: NTRS 414AB. Principles of management for quality food service systems. Lecture 3 hours, laboratory 6 hours.

- **NTRS 438 - Food-Borne Illnesses: Etiology, Prevention and Control
(also listed as HS 438)**

(4)

Prerequisites: MICR 151 and MICR 201, 202. Food-borne diseases and their causes, control and prevention.

- **NTRS 451 - Nutrition and Aging**

(4)

Prerequisite: BIOL 165, CHEM 151 or CHEM 158. Relationship of nutrition to aging and diseases common among elderly; nutritional needs and problems of elderly.

- **NTRS 454L - Selected Topics in Nutritional Science**

(1–6)

Current topics of special interest in Nutritional Science as announced in Schedule of Classes. May be repeated for 16 units of credit as subject matter changes.

- **NTRS 454P - Selected Topics in Nutritional Science**

(1–6)

Current topics of special interest in Nutritional Science as announced in Schedule of Classes. May be repeated for 16 units of credit as subject matter changes.

- **NTRS 462 - Alternative Nutrition**

(4)

Prerequisite: NTRS 250 or NTRS 317. Nutritional implication of alternative dietary behavior in health promotion and disease prevention; incorporation of functional foods, dietary supplements and medicinal herbs into nutrition as complementary care.

- **NTRS 463 - Functional Foods for Health**

(4)

Prerequisite: NTRS 250 or NTRS 317. Use of foods and biological active ingredients for treatment and prevention of diseases; non-nutritive and biochemical constituents of foods to protect human health.

- **NTRS 465 - Medicinal Herbs and Nutrition**

(4)

Prerequisite: NTRS 250 or NTRS 317. Nutritional implication of medicinal herbs in health promotion and disease prevention; incorporation of medicinal herbs as complementary treatment option in dietetics.

- **NTRS 467 - Functional Food Design for Health**

(4)

Prerequisite: NTRS 250 or NTRS 317. Physiological and food industry perspectives of functional food and health promoting food recipes; biochemical, technological and marketing aspects of functional foods in health promotion and disease prevention.

- **NTRS 479 - Professional Interactions and Writing Skills
(also listed as FST 479)**

(4)

Prerequisites: NTRS 317, NTRS 210, PSY 150, COMM 150. Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Role of the dietitian/nutritionist as an educator on the health care team, with emphasis on the development of written and oral communication skills. Lecture 3 hours, activity 2 hours. Concurrent weekly professional colloquium required.

- **NTRS 491 - Advanced Community Nutrition: Program Planning and Evaluation**

(4)

Prerequisites: NTRS 413, NTRS 418 and WPE This course builds on concepts learned in NTRS 418, Community Nutrition. The focus of this course is program planning, intervention and evaluation of community nutrition programs, especially amongst underserved neighborhoods. Seminar 2 hours, activity 4 hours.

- **NTRS 493 - Grant Writing in Community Nutrition**

(4)

Prerequisites: NTRS 413, NTRS 418, NTRS 479 and WPE. Roles of the community and clinical nutritionists/dietitian in grant writing. Working with local community agencies to write and submit grants in the field is required. Lecture 2 hours, activity 4 hours

- **NTRS 495 - Field Work in Nutritional Science**

(2-4)

Prerequisites: Thirty-five NTRS units, of which at least 15 must be upper division; School approval. Supervised experience utilizing professional preparation in field setting. Graded CR/NC

- **NTRS 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted.

May be repeated for 12 units of credit.

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the School and approval of the graduate adviser: NTRS 419ABC, 419S, 479 Classified graduate standing is required for admission to 500-level

• **NTRS 511 - Research Concepts and Methodology in Nutritional Science**

(4)

Prerequisites: NTRS 410, 415AB, 417ABL, EDFN 452, HHS 400 or equivalent). Examination of research methodology within conceptual framework of nutritional science; utilization of the tools of research; review and critique of research reports; development of a research proposal and pilot project. Lecture 3 hours, activity 2 hours.

• **NTRS 513 - Advanced Problems and Topics in Nutritional Science**

(4)

Prerequisites: NTRS 410, 415AB, 417ABL. Contemporary problems and topics in nutritional science.

• **NTRS 519 - Seminar: Special Topics in Food and Nutritional Science**

(4)

Prerequisites: 8 units of 400 or 500-level courses in nutrition, food, dietetics. Selected topics in nutrition, food, and dietetics. (May be repeated as subject matter changes to maximum of 12 units.)

• **NTRS 521 - Advanced Topics in Eating Behaviors**

(4)

Prerequisite: NTRS 417AB. An examination of current research trends and health problems associated with eating behaviors such as dieting, disordered eating, compulsive overeating, restrictive eating and unusual diet practices.

• **NTRS 523 - Advanced Topics in Dietetic Management**

(4)

Prerequisites: NTRS 414A, 414B, 434 or equivalent. Topics in foodservice and dietetic management will be examined, including trends, regulatory agencies, legislations, current research and controversies.

• **NTRS 525 - Advanced Topics in Food Science and Technology**

(4)

Prerequisite: NTRS 410. Current developments in food chemistry, food engineering and physical properties, food microbiology and safety, and sensory and nutritive qualities of foods.

• **NTRS 527 - Nutritional Epidemiology**

(4)

Prerequisite: Basic statistics course. Critical reading of nutritional epidemiology research. Basic research methods will be reviewed, and issues in design, analysis, and interpretation unique to nutritional epidemiology are addressed.

• **NTRS 595 - Fieldwork in Nutritional Science**

(2-4)

Prerequisites: School approval; agency/business acceptance, and 23 units of upper division or graduate level units. Supervised experience

at supervisory level. Four hours per week required for each unit. May be repeated to a maximum of 6 units. Combined units of 495, 595, 597, 598, and 599 may not exceed 15 units. Graded CR/NC.

• **NTRS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **NTRS 597 - Graduate Research**

(1–4)

Prerequisites: NTRS 511, instructor consent to act as sponsor, School approval of project before registration. Independent research under faculty guidance. May be repeated to maximum of 8 units; combined 587/598 units may not exceed 12 units; combined 595, 597, 598, 599 units may not exceed 15 units. Graded CR/NC.

• **NTRS 598 - Graduate Directed Study**

(1–4)

Prerequisite: NTRS 597, instructor consent to act as sponsor; School approval of topic prior to registration. Independent directed study of advanced topics. May be repeated to maximum of 8 units; combined 597 and 598 units may not exceed 12 units; combined 595, 597, 598, and 599 may not exceed 15 units.

• **NTRS 599 - Thesis or Project**

(1–6)

Prerequisites: NTRS 511 or KIN 504, NTRS 513, advancement to candidacy, minimum 3.0 GPA, instructor consent to act as sponsor, School approval of topic before registration. Independent research resulting in thesis or project; oral thesis defense required. May be repeated to maximum of 6 units; combined 595, 597, 598, 599 units may not exceed 15. Graded CR/NC.

Pan-African Studies (Undergraduate)

• **PAS 102 - The African Diaspora in the United States**
(also listed as LAS 102)

(4)

Diversity among the varied people of African descent in the United States and their relation to the dominant society.

GE D ; Approved diversity course

• **PAS 108 - Comparative Ethnic Studies**
(also listed as LAS, AAAS, CHS 108)

(4)

This survey course examines comparatively the notions of "race" and ethnicity, the exploitation based on these statuses, and the resulting resistance and multi-ethnic social movements in the U.S. and elsewhere.

• **PAS 120 - Elementary Igbo**

(4 Units).

Methodical presentation of fundamental structure of language through hearing, speaking, reading and writing Igbo. Introduction to the

customs, culture, and institutions of the Igbo people.

GE C3

• **PAS 140 - Introduction to Globalization, Race, and Place**
(also listed as AAAS 140, CHS 140, and LAS 140)

(4)

Explores the role of race in structuring social relations around the globe, with special focus on the globalization of discourses about race.

• **PAS 180 - Race and Ethnicity in American Society**

(4)

An interdisciplinary examination of ethnic and racial groups in America.

GE D ; Approved diversity course

• **PAS 250A - African History**

(4)

Major themes of African history from origin of humankind and African civilization to institutional realities of Africa today.

GE D

• **PAS 250B - African History**

(4)

Major themes of African history from origin of humankind and African civilization to institutional realities of Africa today.

GE D

• **PAS 251A - African American History**

(4)

History of African Americans from the beginning of the nation to the present.

• **PAS 251B - African American History**

(4)

History of African Americans from the beginning of the nation to the present.

• **PAS 254 - Special Topics in Pan-African Studies**

(1–4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in Pan-African Studies, as announced in Schedule of Classes. May be repeated to maximum of 8 units as subject matter changes.

• **PAS 260 - Third World Images in Film**
(also listed as CHS 260)

(4)

Introduction to a critical examination of the historical and cultural representations of Third World peoples, including U.S. and Third World cinemas.

GE C2 ; Approved diversity course

• **PAS 301 - The Black Experience Across Disciplines: Intensive Writing and Research**

(4)

Prerequisites: ENGL 102 and satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Interdisciplinary approach to Pan-African Studies that provides an intensive writing experience including: thesis-statement development, organization and structure, citations bibliography, data collection, argumentation/methodology, and utilization of editorial assessment.

• **PAS 327 - Ethnicity and Emotions in U.S. Film**
(also listed as ENGL 327 and CHS 327)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical analysis of the representations of ethnicity and emotions in U.S. film.

GE Theme E ; Approved diversity course

• **PAS 342 - Cultural Impact of Development**
(also listed as LAS 342)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Impact of colonialism, neocolonialism and globalization on art, literature, music and identity in developing countries.

GE Theme A ; Approved diversity course

• **PAS 348 - Class, Race/Ethnicity, and Gender**
(also listed as AAAS 348, CHS 348 and SOC 348)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of social class, sex/gender, and ethnicity/race as bases of inequality and the processes by which inequalities are maintained or reproduced. Some course sections may require service-learning. Some course sections maybe offered online.

GE Theme H

• **PAS 360 - Dynamics of Change in the Developing World**
(also listed as LAS 360 and POLS 360)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Case studies illustrating why the third world came into being and how it is changing in the context of the globalized world economy.

GE Theme A ; Approved diversity course

• **PAS 369 - Race, Activism, and Emotions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. With reference to historic and contemporary movements for racial justice, this course examines how human emotions both shape, and are shaped by, individual and group action.

GE Theme E ; Approved diversity course

• **PAS 377 - Literary Explorations of Justice and Racism**
(also listed as ENGL 377)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of the literary depiction of racism and justice, with emphasis on the treatment of civil rights issues in fiction, drama, and poetry.

GE Theme H ; Approved diversity course

• **PAS 386 - Literature and the Third World**
(also listed as ENGL 386)

(4)

Prerequisites: Completion of Basis Subjects (Block A) and one course from Block C. Critically survey cultural representations, themes, and techniques of Third World literature and their Western diaspora writers.

• **PAS 395 - Service in Black Community**

(1-4)

Prerequisites: Approval by department faculty adviser in consultation with EPIC Director, acceptance by community agency. Participation in work of community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. Credit toward baccalaureate limited to 4 units.

• **PAS 400 - Psychology and African Americans**

(4)

An examination of psychological research/theory relevant to African Americans, particularly the impact of racial discrimination on identity, class, gender, sexual orientation, biracialism, family-community relations, education, and mental health.

• **PAS 401 - Topics on Education and African American Advancement**

(4)

Exposes students to controversies over education as a factor in African American advancement, including desegregation, busing, community control, inner-city education, affirmative action, performance ratings, multiculturalism, charter schools, vouchers and others.

• **PAS 402 - Black Political Economy**

(4)

Examines American capitalism and government policy in relation to racial discrimination and inequality; course also explores strategies of economic empowerment and social justice in the Black experience.

• **PAS 403 - The Black Intellectual Tradition**

(4)

A comprehensive survey of the modern Black intellectual tradition and relevant social movements, including thinkers associated with nationalism, socialism, communism, liberalism, populism, feminism, Pan-identity, conservatism and other approaches to thought.

• **PAS 404 - The Black Family**

(4)

Examines transitions of the African American family from slavery to the present, including distinctive structures/values and interpretations of its African heritage.

• **PAS 405 - Black Feminism**

(4)

Examines ideas associated with Black feminism and womanism – social foundations of Black women's consciousness, Black male-female relations and engagement with other feminisms, both mainstream and amongst women of color.

• **PAS 406 - Black Women Leaders in Thought and Politics**

(4)

Highlights the civic engagement of Black women in America and comparative contexts. The course emphasizes Black gender identity as an influence on political, religious, social, professional and intellectual activism.

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HELP

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Pan-African Studies (Undergraduate)

• PAS 412 - Third World Women and Development

(4)

Prerequisites: Upper division standing; ANTH 250 recommended. The status and role of Third World women in societal development with primary emphasis on Black women in developing countries.

• PAS 414 - African Diaspora: Globalization, Locality, Community

(4)

Concepts such as globalization, identity, locality, and community are used to expose students to diversity within the African Diaspora and to countries with significant populations or subpopulations of African descendants.

• PAS 416 - Pan Africanism and World Politics

(4)

The interplay of Pan-Africanism as a cultural and sociopolitical movement in world politics.

• PAS 417 - Hip-Hop as Political Expression

(4)

Course examines rap/Hip-Hop music as a form of political expression, with special emphasis on its domestic and international influence among youth in marginalized communities.

• PAS 418 - African American Religion as Civic Culture

(4)

Examines African American religion as a unique civic culture, including protest movements, political engagement, leadership formation, public policy, intellectual/theological traditions, Pan African identity, Islam/ black nationalism, and international affairs.

• **PAS 420 - African Foundations of African American Culture**

(4)

Exploration of existence of Africanisms, retentions, and syncretisms in the New World and their relationship to contemporary events and society.

• **PAS 421 - African American Music as History and Criticism**

(4)

Relates definitive styles of African American music to their original historical and social contexts as well as to assessments of each genre's influence on Black identity and race relations.

• **PAS 422 - Themes in Black Literature**

(4)

Analysis and discussion of representative works of Black authors from 18th century to present.

• **PAS 440 - Power and African American Communities**

(4)

Study of power relations in African American communities, including the interactions between community and dominant institutions.

• **PAS 441 - Power and African American Communities: Field Research**

(4)

Prerequisite: PAS 440 recommended. Supervised study and field research on topics relevant to power in African American communities.

• **PAS 456 - Politics of the Caribbean and Central America**
(also listed as POLS 456)

(4)

Prerequisite: POLS 150. Political development and dependency in the Caribbean and Central America.

• **PAS 480 - Education and Development in Africa**

(4)

Prerequisite: Upper division standing. Study of the educational systems in Africa with emphasis on the social, economic, and political factors influencing educational objectives and strategies.

• **PAS 490 - Special Topics in Pan-African Studies**

(4)

Prerequisite: Instructor consent. Presentation and discussion of academic papers relating to given topic; lectures aimed at critical analysis and appraisal. May be repeated once for credit.

• **PAS 495 - Senior Thesis**

(1–4)

Prerequisites: ENGL 102*; passing WPE score; PAS 301; senior standing; consent of full-time faculty member to serve as advisor and recommendation of department chair. Individual project/senior thesis on Pan African Studies topic; course emphasizes research techniques, problem identification, hypothesis formulation, data gathering/analysis, effective writing and academic standards of format/style. *Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

• **PAS 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Minimum of 8 units in Pan-African Studies, 3.0 grade point average, senior or graduate standing, consent of full-time faculty member to serve as sponsor, and recommendation of department chairperson. Term project selected in conference with sponsor, progress meetings held regularly, final report required. May be repeated to maximum of 8 units.

Philosophy (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• **PHIL 151 - Philosophical Ideas: Knowledge and Reality**

(4)

An examination of major philosophical issues concerning knowledge and reality, such as skepticism, belief, truth, the existence of God, personal identity, and the mind/body problem.

GE C3

• **PHIL 152 - Philosophical Ideas: Human Values**

(4)

An examination of philosophical issues concerning human values, such as relativism, the good life, and value conflicts.

GE C3

• **PHIL 160 - Critical Thinking**

(4)

Logical analysis of language and critical evaluation of arguments in everyday language; deductively valid and invalid argument forms; rudiments of inductive logic and scientific reasoning; informal fallacies. Some sections to be offered online.

GE A3

• **PHIL 200 - Introduction to Comparative Religions**

(also listed as RELS 200)

(4)

Methods and concepts in comparative religions; multidisciplinary approaches to the study of ancient and contemporary religious phenomena in literate and nonliterate cultures. Some sections of the course may be taught online.

GE C3 ; Approved diversity course

• **PHIL 210 - Conceptions of the Self in Philosophy and Literature**

(also listed as ENGL 210)

(4)

Examination of various conceptions of the self as they arise in philosophical and literary texts; examination of methods and goals of the philosophical and literary arts.

GE C5

• **PHIL 220 - Contemporary Moral and Social Issues in a Multicultural Society**

(4)

Philosophical examination of values, assumptions, and arguments concerning moral and social issues in a multicultural society. Possible topics include, reproductive rights, sexuality, racism, sexism, and justice. May include optional service learning.

GE C3 ; Approved diversity course

• **PHIL 230 - The Meanings of Human Life: A Multicultural Approach**

(4)

Multicultural investigations of the diverse meanings of human life. Emphasis on contrasting accounts of the self and its place in the world: and connections between philosophy and life experience. May include optional service learning.

GE E ; Approved diversity course

• **PHIL 250 - Introduction to Symbolic Logic**

(4)

Introduction to modern symbolic logic and its relation to everyday language; methods of establishing the logical content of statements and of analyzing and/or criticizing arguments for validity and invalidity.

GE A3

• **PHIL 300 - Philosophical Research and Writing**

(4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Instruction and practice in philosophical analysis, research, and writing; survey of various forms of philosophical writing; reading, research, and writing strategies; preparation for advanced course work in philosophy.

• **PHIL 304 - Ethics I**

(4)

Analysis of empirical and normative factors involved in choice, types of ethical theory, nature of moral standards and judgments.

• **PHIL 311 - History of Ancient Philosophy**

(4)

Development of philosophical thought from the pre-Socratics to Plotinus; principal thinkers, major problems, and dominant trends in Western thought.

• **PHIL 313 - History of Modern Philosophy**

(4)

Prerequisite: One PHIL course. Development of philosophical thought from the Renaissance to Kant; principal thinkers, major problems, and dominant trends in Western thought.

- **PHIL 321 - Ancient Thought and its Modern Legacy**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Major themes in classical thought and their ongoing influence, for example, the development of self-consciousness, the concept of rationality, human values and the meaning of life.

GE Theme I

- **PHIL 323 - Human Diversity and Justice**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of justice and its relations to individual, social and political treatment of differences in race, ethnicity, gender, class, religion. Implications for individual and cultural pride, self-respect, cultural diversity. May include optional service learning.

GE Theme H ; Approved diversity course

- **PHIL 325 - Violence and Ethics**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of the nature of individual and societal violence including physical and psychological violence. Ethical issues: justification of violence, responsibility for violence, treatment or punishment. Moral psychology of violence.

GE Theme B

- **PHIL 327 - Philosophy, Gender and Culture**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of concepts, values and assumptions relevant to gender in a multicultural context; for example, identity, power, culture and justice; moral issues concerning gender, sexual orientation, love and families. May include optional service learning.

GE Theme C ; Approved diversity course

- **PHIL 354 - Special Topics in Philosophy**

(1–6)

Prerequisite: As needed for specific topic. Topics of special interest in philosophy as announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit as subject matter changes.

- **PHIL 372 - Philosophy and the Emotions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of the nature of emotion; exploration of emotions such as anger, fear, love, shame, jealousy. Relations among emotion, reason, action, character and self-control. Contributions of nature and culture.

GE Theme E

- **PHIL 373 - Themes of Adult Life in Philosophy**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Maturity and aging explored philosophically through perspectives of race, ethnicity, class, and gender. Challenges of adult life such as personal relations, self-understanding and responsibility, death and dying, meaningfulness of life.

GE Theme F ; Approved diversity course

- **PHIL 380 - Ancient and Modern Science**
(also listed as HIST 380 and CHEM 380N)

(4)

Prerequisites: Completion of GE Basic Subjects (Block A) and one course from Block B.

Systematic analysis of ancient scientific thought and its relationship to modern science.

- **PHIL 385 - Measurement of Human Difference**
(also listed as ANTH 385)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Exploration of issues of diversity and justice through examination of popularized accounts of scientific research into human difference; topics include I.Q. testing and race, "innate" gender differences, and sexuality.

GE Theme H

- **PHIL 395 - Philosophy in Practice: Internships and Service Learning**

(1-3)

Prerequisite: Consent of instructor and, for service learning, clearance through EPIC. Experiential learning for philosophy majors/minors. Service to legal clinics, courts, schools, law enforcement, art organizations, youth, senior centers, etc. Traditional pre-law internships also available. Written reflection and meetings with instructor. May be repeated up to a maximum of 6 units. Graded CR/NC

- **PHIL 400A - Journal Editing and Production**

(1-4)

Prerequisite: Invitation by the Philosophy Department. Overview of the techniques for producing a philosophical essay; peer review and copy editing techniques. Class will assist in producing a volume of the student philosophical Journal. May be repeated for credit. Permit required.

- **PHIL 400B - Advanced Philosophical Writing and Journal Production**

(1-4)

Prerequisite: Invitation by the Philosophy Department. Advanced writing techniques, focusing on the production, evaluation, and revision of philosophical essays; peer review and copy editing techniques. Class will produce a volume of the student philosophical journal. May be repeated for credit. Permit required.

- **PHIL 405 - Symbolic Logic**

(4)

Prerequisite: PHIL 250. Logic and language, nature of argument, meaning and truth, propositional calculus, and predicate calculus.

- **PHIL 406 - Advanced Logic**

(4)

Prerequisite: PHIL 405. Selected topics in logic; e.g., identity, definite descriptions, foundations of mathematics, metalogic, philosophical logic, as announced in Schedule of Classes. May be repeated as content changes.

• **PHIL 410 - Social and Political Philosophy**

(4)

Prerequisite: One PHIL course. Philosophical foundations of social and political thought; analysis of such concepts as state, law, obligation, and sanction, and their relation to issues in metaphysics, theory of knowledge, and ethics.

• **PHIL 413 - Issues in Feminist Philosophy**
(Also listed as WOMN 413)

(4)

Prerequisite: One PHIL course. Central philosophical concepts and issues investigated from feminist perspectives, for example, topics in epistemology, philosophy of science, ethics, and personal identity. May be repeated to a maximum of 8 units as topics vary.

• **PHIL 415 - Philosophy of Religion**

(4)

Prerequisite: One PHIL course. Systematic approach to issues of noteworthy religious significance, such as eternity, faith, worship, the holy, with aim of distinguishing religion from other modes of human experience.

• **PHIL 420 - Ethics II**

(4)

Prerequisite: PHIL 304. Contemporary meta-ethical theories, analyses of concept of good, analyses of concept of obligation, validation of moral statements, ethical relativism, praise and blame, moral responsibility.

• **PHIL 429 - Bioethics**

(4)

Prerequisite: One PHIL course. Philosophical consideration of moral issues concerning health and health care, such as decisions about death, reproductive choices, medical experimentation, and justice in allocating health resources.

• **PHIL 433 - Latin American Philosophy**

(4)

Prerequisite: One PHIL course. Philosophical thought in Latin America with emphasis on contemporary philosophers, especially those of Mexico and Argentina.

• **PHIL 436 - South Asian Philosophy**

(4)

Prerequisite: One PHIL course. Exploration of the 4,000-year Indian/South-Asian philosophical traditions, encompassing the early classics, orthodox and unorthodox systems of Indian Philosophy, and modern developments.

• **PHIL 440 - Contemporary Philosophy**

(4)

Prerequisite: One PHIL course. Major problems, issues or trends in philosophy since 1900. May be repeated as topics change to a maximum

of 8 units.

• **PHIL 445 - Existentialism**

(4)

Prerequisite: One PHIL course. Major works of existential philosophy; relation of existentialism to contemporary value problems; 19th century background and contemporary varieties of existential thought, both religious and nonreligious.

• **PHIL 446 - Phenomenology**

(4)

Prerequisite: One PHIL course. Descriptive and constitutive methodologies of phenomenology; application of phenomenological method to problems in ontology, aesthetics, language, psychology, and social theory.

• **PHIL 447 - Hermeneutics and Critical Theory**

(4)

Prerequisite: One PHIL course, preferably in history of modern philosophy. Major themes in hermeneutics and critical theory. Topics include: theories of meaning and interpretation, the nature of 'texts', the impact of politics, culture and economics on modes of understanding.

• **PHIL 450 - Plato**

(4)

Prerequisite: PHIL 311. Exposition and analysis of principal works of Plato.

• **PHIL 451 - Aristotle**

(4)

Prerequisite: PHIL 311. Exposition and analysis of principal works of Aristotle.

• **PHIL 454 - Islamic Philosophy**

(4)

Prerequisite: One PHIL, course. PHIL 311 recommended. Central philosophical issues in the Classical era of Islamic thought, 9th to 12th century, such as God's essence and attributes, causality, cosmology and the eternity of the world, and knowledge. May be repeated to a maximum of 8 units as topics vary.

• **PHIL 458 - Major Figures in Modern Philosophy**

(4)

Selected philosophers in the modern era: e.g., Descartes, Hobbes, Spinoza, Locke, Berkeley, Hume, Rousseau and Kant. Specific topic listed in Schedule of Classes. May be repeated to a maximum of 8 units as content changes.

• **PHIL 459 - 19th Century Philosophy**

(4)

Prerequisite: One PHIL course. PHIL 313 recommended. Selected philosophical themes from Kant to late 19th century; contributions of selected philosophers, e.g.: Kant, Hegel, Marx, Nietzsche, Kierkegaard, Comte and Mill.

• **PHIL 460 - Metaphysics**

(4)

Prerequisite: One PHIL course. Investigation of fundamental nature of reality and of persons. Topics include some of the following: free will, personal identity, the mind/ body problem, universals and particulars, abstract objects, space/time and causality.

• **PHIL 470 - Theory of Knowledge**

(4)

Prerequisite: PHIL 250; one additional PHIL course. Investigation of fundamental nature of human knowledge and related concepts, including belief, truth, and justification; additional topics may include: realism and relativism, skepticism, critiques of traditional theory of knowledge.

• **PHIL 471 - Philosophy of Mind**

(4)

Prerequisite: One PHIL course. Philosophical analysis of concepts of mind, mental phenomena, actions, emotions, and will; philosophical theories of mind.

• **PHIL 475 - Aesthetics**

(4)

Prerequisite: One PHIL course. Main problems and principal theories of art creation, appreciation and criticism; aesthetic experience and the work of art; principles of aesthetic evaluation and their effect on morality, government, society, science and philosophy.

• **PHIL 480 - Philosophy of Language**

(4)

Prerequisites: PHIL 250; one additional PHIL course. Semantic, syntactic, and pragmatic dimensions of language; theories of signs and meaning; cognitive, emotive, and other features of language; ordinary language and formal language as analytical tools; philosophical importance of language.

• **PHIL 485 - Philosophy of Science**

(4)

Prerequisite: PHIL 250 or upper division standing in any major. Philosophical issues in the physical, life, and social sciences. Problems selected for study may include: concept formation, hypotheses and models, meaning and verification, prediction and explanation, causality and natural law.

• **PHIL 490 - Philosophy of Law**

(4)

Prerequisite: One PHIL course. Philosophical investigation of fundamental presuppositions of legal theory, analysis of basic legal concepts.

- **PHIL 495 - Proseminar: Selected Works in Philosophy**

(4)

Prerequisite: Varies according to subject matter. Close study of major philosophical writings, stressing meaning, methods of inquiry, and grounds upon which argued. Content varies. May be repeated to a maximum of 12 units for credit as subject matter changes.

- **PHIL 496 - Senior Seminar**

(2)

Prerequisites: PHIL 300 and senior standing in Philosophy major. Reflection on the purposes, methods and styles of Philosophy. Students' self-assessment of their own philosophical development.

- **PHIL 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to a maximum of 8 units for credit.

Philosophy (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Classified graduate standing is required for admission.

- **PHIL 500A - Journal Editing and Production**

(1-4)

Prerequisite: Graduate standing and invitation by the philosophy department. Overview of the techniques for producing a philosophical essay; peer review and copy editing techniques. Class will assist in producing a volume of the student philosophical journal. May be repeated for credit. Permit required.

- **PHIL 500B - Graduate Philosophical Writing and Journal Production**

(1-4)

Prerequisite: Graduate standing and invitation by the philosophy department. Advanced writing techniques, focusing on the production, evaluation and revision of philosophical essays; peer review and copy editing techniques. Class will produce a volume of the student philosophical journal. May be repeated for credit. Permit required.

- **PHIL 510 - Seminar: History of Philosophy**

(4)

Advanced study of selected figures and problems in history of philosophy. May be repeated to a maximum of 8 units as subject matter changes.

- **PHIL 511 - Seminar: History of Ancient Philosophy**

(4)

Advanced study of selected figures and problems in history of ancient philosophy. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 513 - Seminar: History of Modern Philosophy**

(4)

Advanced study of selected figures and problems in history of modern philosophy. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 515 - Seminar: 18th and 19th Century Philosophy**

(4)

Advanced study of selected figures and problems in the history of 18th and 19th Century Philosophy. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 521 - Seminar: Logic**

(4)

Advanced study of selected problems in deductive or inductive logic. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 523 - Seminar: Philosophy of Language**

(4)

Advanced study of selected problems in philosophy of language. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 525 - Seminar: Philosophy of Science**

(4)

Advanced study of selected problems in philosophy of the sciences, including mathematics, natural sciences, psychology, and social sciences. May be repeated to a maximum of 12 units as subject matter changes.

• **PHIL 531 - Seminar: Metaphysics**

(4)

Advanced study of selected problems in metaphysics. May be repeated to a maximum of 12 units as subject matter changes.

• **PHIL 532 - Seminar: Theory of Knowledge**

(4)

Advanced study of selected problems in theory of knowledge. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 533 - Philosophy of Mind**

(4)

Study of advanced topics in contemporary philosophy of mind, including consciousness, thought, the relationship between thought and consciousness, qualitative experience, and self-knowledge. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 542 - Seminar: Aesthetics**

(4)
Advanced study of selected problems in aesthetics. May be repeated to a maximum of 8 units as subject matter changes.

• **PHIL 543 - Seminar: Ethics**

(4)
Advanced study of selected problems in ethics, including moral theory and applied issues. May be repeated to a maximum of 12 units as subject matter changes.

• **PHIL 544 - Seminar: Social and Political Philosophy**

(4)
Advanced study of selected problems in social and political philosophy, including social/political theory and applied issues. May be repeated to a maximum of 12 units as subject matter changes.

• **PHIL 580 - Seminar: Critical Thinking—Models and Strategies**

(4)
Prerequisites: 12 units of Critical Thinking certificate coursework. PHIL 405 strongly recommended. Theoretical models of critical thinking and pedagogical strategies and materials for teaching different kinds of students.

• **PHIL 581 - Projects in Teaching Philosophy**

(1–4)
Prerequisite: Consent of instructor. Planned preparation and critical evaluation of undergraduate philosophy classes, especially Critical Thinking. May be repeated to a maximum of 16 units. Graded CR/NC.

• **PHIL 596 - Comprehensive Examination**

(0)
See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **PHIL 598 - Graduate Directed Study**

(1–4)
Prerequisite: Consent of faculty sponsor before registration. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

• **PHIL 599 - Thesis**

(1–6)
Prerequisites: Minimum 3.5 grade point average in first 36 units of MA program, formal approval by department. Independent research resulting in a thesis. May be repeated to maximum of 6 units. Graded CR/NC. Not open to students with prior enrollment in comprehensive examinations (PHIL 596).

Physics (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: PHYS 410AB, 425A, 426AB, 427, 432A, 470, 497, 499.

• PHYS 101 - Physics

(4)

Prerequisite: Knowledge of elementary algebra and trigonometry. Mechanics of particles, rigid bodies; gravity; simple harmonic motion. Fundamental treatment of physics without use of calculus. Required for biological science majors; recommended for behavioral science majors. Biologists planning graduate work may find the 211-214 and 306 series in physics with calculus better suited to their needs. Lecture 3 hours, laboratory 3 hours for each course.

*C-ID PHYS 100S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• PHYS 102 - Physics

(4)

Prerequisite: PHYS 101. Waves, sound, fluids, thermal physics, kinetic theory, electrostatics. Fundamental treatment of physics without use of calculus. Required for biological science majors; recommended for behavioral science majors. Biologists planning graduate work may find the 211-214 and 306 series in physics with calculus better suited to their needs. Lecture 3 hours, laboratory 3 hours for each course.

*C-ID PHYS 100S

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• PHYS 103 - Physics

(4)

Prerequisite: PHYS 102. Electricity and magnetism, light and optics, relativity, quanta, atoms, nuclei, and fundamental particles. Fundamental treatment of physics without use of calculus. Required for biological science majors; recommended for behavioral science majors. Biologists planning graduate work may find the 211-214 and 306 series in physics with calculus better suited to their needs. Lecture 3 hours, laboratory 3 hours for each course.

*C-ID PHYS 100S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• PHYS 154L - Selected Topics in Physics

(1-6)

Prerequisite: Specific prerequisites announced in Schedule of Classes. Topics of current interest in physics and astronomy, as announced in Schedule of Classes; relevance of physics in solving problems of modern technological society.

• PHYS 154P - Selected Topics in Physics

(1-6)

Prerequisite: Specific prerequisites announced in Schedule of Classes. Topics of current interest in physics and astronomy, as announced in Schedule of Classes; relevance of physics in solving problems of modern technological society.

- **PHYS 156 - Physics for the Twenty-first Century**

(4)

Current topics in physics that will play a significant role in social and economic issues of the 21st century. Fundamental physics concepts necessary to understand these topics. Lecture 3 hours, laboratory 3 hours.

GE B2

- **PHYS 198 - General Physics Laboratory**

(1)

Prerequisites: Approval of the Physics Chair and student's major adviser. Provides registration mechanism for transfer students who require lower division laboratory to complete requirements for lower division physics course.

- **PHYS 211 - Mechanics**

(5)

Prerequisites: High school physics or equivalent, or permission of the department, MATH 206 or equivalent (may be taken concurrently). Four-quarter sequence for physical science and engineering majors, using calculus. Motion in one and two dimensions, Newton's laws of motion, circular motion, work and energy, energy transfer, linear and angular momentum and their conservation, collisions, universal gravitation. Lecture 3 hours, lab 3 hours, tutorial workshop 2 hours.

*C-ID PHYS 200S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

- **PHYS 212 - Waves, Optics and Thermodynamics**

(5)

Prerequisites: PHYS 211. Prerequisite or corequisite: MATH 207. Four-quarter sequence for physical science and engineering majors, using calculus. Mechanical vibrations and sound, optics, elementary thermodynamics. Lecture 3 hours, lab 3 hours, tutorial workshop 2 hours.

*C-ID PHYS 200S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

- **PHYS 213 - Electricity and Magnetism**

(5)

Prerequisite: PHYS 212. Prerequisite or corequisite: MATH 208. Four-quarter sequence for physical science and engineering majors, using calculus. Elementary field theory, basic electricity and magnetism, DC circuits. Lecture 3 hours, lab 3 hours, tutorial workshop 2 hours.

*C-ID PHYS 200S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **PHYS 214 - Modern Physics**

(4)

Prerequisite: PHYS 213. Prerequisite or corequisite: MATH 208. Four-quarter sequence for physical science and engineering majors, using calculus. Quantization of charge, light and energy. Structure of the atom. Wave properties of particles. Schroedinger equation. Atomic physics. Molecular structure and spectra. Lecture 3 hours, lab 3 hours.

*C-ID PHYS 200S

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **PHYS 306 - Modern Physics**

(4)

Prerequisites: PHYS 213, MATH 209. Corequisite PHYS 214. Special relativity, statistical physics, solid state physics, nuclear and particle physics, astrophysics and cosmology.

• **PHYS 311 - Elements of Modern Astronomy** (also listed as ASTR 311)

(3)

Prerequisite: PHYS 214. Survey of modern astronomy, designed for students majoring in physical sciences, engineering, or mathematics.

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Physics (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: PHYS 410AB, 425A, 426AB, 427, 432A, 470, 497, 499.

• PHYS 312 - Basic Electronics

(4)

Prerequisite: PHYS 213. AC and DC circuits, solid-state circuits and devices, feedback, operational amplifiers. Lecture 3 hours, laboratory 3 hours.

• PHYS 313 - Digital Electronics

(4)

Prerequisite: PHYS 312. Design and use of pulse circuits and digital logic circuits. Fundamentals of computer design and computer programming. Lecture 3 hours, laboratory 3 hours.

• PHYS 320 - Physics Computing

(3)

Prerequisites: MATH 206 and either PHYS 101 or PHYS 211. Corequisite: MATH 207. Introduction to the use of computers in physics. The use of numerical recipes and symbolic manipulation programs for the solution of scientific problems. Lecture 2 hours, laboratory 3 hours.

• PHYS 333 - Applied Modern Physics

(4)

Prerequisites: MATH 215, PHYS 213. Selected topics in modern physics of solids including special relativity, wave mechanics, photons, phonons, applications to lasers, semiconductors, and other devices.

• PHYS 396 - Honors Studies in Physics

(3)

Prerequisite: Admission to departmental honors program. Study leading to colloquium presentation required for conferral of Bachelor of Science degree with Departmental Honors in Physics.

• **PHYS 410A - Mathematical Methods of Physics**

(4)

Prerequisites: PHYS 213; MATH 209. Vector calculus, integration, series, complex variables, special functions, boundary value problems, calculus of variations. Emphasis on mathematical solution of problems in physics.

• **PHYS 410B - Mathematical Methods of Physics**

(4)

Prerequisites: PHYS 213; MATH 209. Vector calculus, integration, series, complex variables, special functions, boundary value problems, calculus of variations. Emphasis on mathematical solution of problems in physics.

• **PHYS 411 - Introduction to Astrophysics**
(also listed as ASTR 411)

(3)

Prerequisites: PHYS 306; PHYS 311 recommended. Celestial mechanics, stellar interiors, atmospheres, and evolution; introductory cosmology.

• **PHYS 412 - Laboratory Applications of Minicomputers and Microcomputers**

(4)

Prerequisite: PHYS 313 strongly recommended. The use of minicomputers and microcomputers in physics laboratories and research. Fundamentals of data acquisition, interfacing, and data display. Lecture 2 hours, laboratory 6 hours.

• **PHYS 425A - Introduction to Theoretical Physics**

(4)

Prerequisites: PHYS 214, 410A. Application of mathematics to solutions of problems in physics with emphasis on general area of mechanics; Newtonian, Lagrangian, and Hamiltonian mechanics, field theory, special relativity.

• **PHYS 425B - Introduction to Theoretical Physics**

(4)

Prerequisites: PHYS 214, 410A. Application of mathematics to solutions of problems in physics with emphasis on general area of mechanics; Newtonian, Lagrangian, and Hamiltonian mechanics, field theory, special relativity.

• **PHYS 426A - Electricity and Magnetism**

(3)

Prerequisites: PHYS 214, 410A. Theoretical electricity and magnetism; properties of electric and magnetic fields, electromagnetic waves; emphasis on mathematical solution of problems.

• **PHYS 426B - Electricity and Magnetism**

(3)

Prerequisites: PHYS 214, 410A. Theoretical electricity and magnetism; properties of electric and magnetic fields, electromagnetic waves; emphasis on mathematical solution of problems.

• **PHYS 427 - Thermodynamics**

(4)

Prerequisites: PHYS 214, MATH 209. Corequisite: 410A. Introduction to thermodynamics and statistical physics; emphasis on mathematical solution of problems.

• **PHYS 428 - Statistical Physics**

(3)

Prerequisite: PHYS 427. Introduction to statistical mechanics, transport phenomena, fluctuations; emphasis on mathematical solution of problems.

• **PHYS 431 - Modern Optics**

(4)

Prerequisites or corequisites: PHYS 214, 410AB; recommended corequisite: PHYS 471. Introduction to modern optics; geometric optics by matrix methods, partial polarization, coherence, diffraction, quantum optics, and developments in laser technology.

• **PHYS 432A - Introductory Quantum Mechanics**

(3)

Prerequisites: PHYS 306, 410A. Introduction to quantum mechanics with applications; emphasis on mathematical solution of problems. Fundamentals of wave mechanics, wave packets, and the uncertainty principle. Schrödinger's equation, operators and eigenfunctions, one-dimensional problems.

• **PHYS 432B - Introductory Quantum Mechanics**

(3)

Prerequisites: PHYS 306, 410A. Introduction to quantum mechanics with applications; emphasis on mathematical solution of problems. Central potentials, spectroscopy, spin and angular momentum, symmetry and conservation laws.

• **PHYS 433 - Solid State Physics I**

(4)

Prerequisites: PHYS 306; 427 recommended. Crystal structure, thermal and electrical behavior of insulators, metals, and semiconductors; band theory.

• **PHYS 434 - Solid State Physics II**

(4)

Prerequisites: PHYS 432A; 427, 433 recommended. Fermi surface, transport theory, superconductivity, magnetic resonance, optical properties, superfluidity, ion implantation.

• **PHYS 443A - Physical aspects of living state.**

(3)

Prerequisites: Lower division biophysics or biochemistry program; CHEM 401 or PHYS 427. Lecture 3 hours.

• **PHYS 443B - Biophysics**

(2)

Prerequisites: Lower division biophysics or biochemistry program; CHEM 401 or PHYS 427. Theory of physical methods used in measurement of biological processes. Lecture 2 hours.

• **PHYS 444 - Nuclear Physics**

(4)

Prerequisite: PHYS 306. Nuclear phenomenology; alpha, beta, and gamma decays; nuclear reactions, nuclear energy, radiation detectors; radioactivity.

• **PHYS 470 - Advanced Physics Laboratory I**

(3)

Prerequisites: PHYS 306, 312. Instrumentation, techniques, and analytical evaluation involved in current experimental practice; basic experiments in vacuum techniques, and in classical, solid-state, and nuclear physics. Lecture 1 hour, laboratory 6 hours.

• **PHYS 471 - Advanced Physics Laboratory II**

(3)

Prerequisite: PHYS 470. Further advanced laboratory experience in contemporary fields. Experiments in nuclear physics, solid-state physics, cryogenics, optics, laser physics, spectroscopy, and related topics, as selected by instructor. Lecture 1 hour, laboratory 6 hours. May be repeated to maximum of 9 units.

• **PHYS 488 - Modern Topics in General Relativity**

(also listed as ASTR 488)

(3)

Prerequisites: PHYS 410AB; 425AB strongly recommended. Introduction to basic ideas of general relativity: physics of spacetime, relativistic stars, gravitational collapse and black holes, gravitational waves, testing of general relativity.

• **PHYS 491 - Topics in Contemporary Experimental Physics**

(3)

Prerequisites: Upper division or graduate standing in physics; others as listed in department announcement. Each section of course is a lecture series designed to present current developments in research; laboratory program may be included. Specific topics listed in Schedule of Classes and in department. May be repeated for credit.

• **PHYS 492 - Topics in Contemporary Theoretical Physics**

(3)

Prerequisites: Upper division or graduate standing in Physics; others as listed in department announcement. Each section of course is a lecture series designed to present current developments in theory. Specific topic listed in Schedule of Classes and in department. May be repeated for credit.

• **PHYS 497 - Undergraduate Research**

(1-4)

Prerequisite: Consent of faculty sponsor prior to registration. Laboratory work organized on a project basis open to a limited number of qualified physics majors each year. Emphasis on developing experimental ability and initiative of the student. May be repeated for credit.

• **PHYS 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Consent of faculty sponsor before registration and ability to work independently. Includes regular conferences with sponsor and preparation of a report. May be repeated for credit.

Physics (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: PHYS 410AB, 425AB, 426AB, 427, 432AB, 470, 497, 499.

Classified graduate standing is required for admission.

• **PHYS 510A - Mathematical Methods of Physics**

(4)

Prerequisites: PHYS 410AB, 425A, 426A. Intended for beginning graduate students. Problem-solving using techniques current in theoretical physics. Series, integration, complex variables, integral transforms, matrices, eigenvalues, special functions, integral equations, numerical methods, probability and tensors.

• **PHYS 510B - Mathematical Methods of Physics**

(4)

Prerequisites: PHYS 410AB, 425A, 426A. Intended for beginning graduate students. Problem-solving using techniques current in theoretical physics. Series, integration, complex variables, integral transforms, matrices, eigenvalues, special functions, integral equations, numerical methods, probability and tensors.

• **PHYS 512A - Modern Physics**

(4)

Prerequisites: PHYS 425A, 426A Hydrogen atom, atomic spectroscopy, electron shell structure, molecular binding, quantum statistics, and theory of solids.

• **PHYS 512B - Modern Physics**

(4)

Prerequisites: PHYS 425A, 426A X-rays, properties of nuclei, radioactivity, nuclear forces, elementary particles, cosmic rays, nuclear astrophysics.

• **PHYS 530A - Classical Physics**

(4)

Prerequisite or corequisite: PHYS 510AB. Unified treatment of advanced topics in classical physics, including Lagrange's and Hamilton-Jacobi theory, special relativity, electrodynamics, and radiation theory.

• **PHYS 530B - Classical Physics**

(4)

Prerequisite or corequisite: PHYS 510AB. Unified treatment of advanced topics in classical physics, including Lagrange's and Hamilton-Jacobi theory, special relativity, electrodynamics, and radiation theory.

• **PHYS 531 - Topics in Electrodynamics**

(4)

Prerequisite: PHYS 530AB. Continuation and expansion of topics covered in 530B. Emphasis on special topics and applications such as wave guides, scattering, diffraction, plasma physics, radiation damping, and self fields of a particle.

• **PHYS 532A - Quantum Mechanics**

(4)

Prerequisite or corequisite: PHYS 510AB. Formal structure of quantum mechanics, hermitian operators, Schrödinger theory and applications to soluble systems, angular momentum, and rotation matrices.

• **PHYS 532B - Quantum Mechanics**

(4)

Prerequisite or corequisite: PHYS 510AB. Scattering theory and phase-shift analysis, matrix mechanics, spin, permutation symmetry and identical particles, and approximation methods.

• **PHYS 533 - Solid State Theory**

(4)

Prerequisites: PHYS 432A, 510AB; 433 recommended. Use of quantum field theory and group theory for development of solid state topics such as band theory, transport processes, and collective particle phenomena.

• **PHYS 542 - Physics Research Conference**

(1)

Weekly meetings of faculty and students for report and discussion of recent developments in physics. Includes presentations by faculty, advanced students, or invited speakers. May be repeated to maximum of 2 units. Graded CR/NC.

• **PHYS 544 - Theoretical Nuclear Physics**

(4)

Prerequisites: PHYS 510AB, 532A. Selected topics from theory of nuclear models, nuclear reactions, and symmetry properties of elementary particles.

- **PHYS 592 - Seminar: Contemporary Physics**

(1–4)

Prerequisite: Department approval. Current topics in theoretical and/or experimental physics. May be repeated to maximum of 16 units as subject matter changes.

- **PHYS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

- **PHYS 597 - Graduate Research**

(1–4)

Prerequisites: Consent of a faculty sponsor and departmental approval of project prior to registration. Independent research, under guidance of the faculty. May be repeated for credit. Graded CR/NC.

- **PHYS 598 - Graduate Directed Study**

(1–4)

Prerequisite: Consent of a faculty sponsor before registration. Independent study of advanced topics in the field; regular conferences with the sponsor. May be repeated for credit.

- **PHYS 599 - Thesis**

(1–4)

Prerequisites: Advancement to candidacy, consent of a faculty sponsor, departmental approval of topic prior to enrollment in course. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded CR/NC.

Political Science (Graduate)

Classified graduate standing is required for admission to all 500-level courses.

- **POLS 504 - Seminar: American Political Behavior**

(4)

Prerequisite: Department approval. Research and quantitative analysis of various forms of American political behavior. Topics may include: voting, participation, group behavior, policymaking, institutional decision-making, public opinion.

- **POLS 505 - Seminar: American Political Studies**

(4)

Prerequisites: Baccalaureate; superior academic performance in political science. Analysis of selected issues and problems of national significance in the U.S. May be repeated as subject matter changes.

- **POLS 509 - Seminar: Foundations of Empirical Political Theory**

(4)

Prerequisite: Departmental approval. Values and limitations in past and current applications of philosophy and methods of science to study

of politics.

• **POLS 510 - Seminar: Political Theory**

(4)

Prerequisites: POLS 431, 433, or 435. Selected topics in political philosophy. May be repeated as subject matter changes.

• **POLS 526 - Seminar: International Political Economy**
(also listed as ECON 526)

(4)

Prerequisite: ECON/POLS 426 plus POLS 427. Research and analysis of the interactions of politics and economics in the international arena.

• **POLS 527 - Seminar: Advanced Studies in International Relations**

(4)

Prerequisites: POLS 427 plus 4 units in POLS 425, 426 or 429, or LAS 424. Selected topics in international politics. May be repeated for a total of 8 units, with advisor approval, as subject matter changes.

• **POLS 531 - Seminar: Latin American Government**

(4)

Prerequisite: POLS 451. Analysis of selected topics in Latin American politics.

• **POLS 550 - Seminar: Comparative Politics**

(4)

Prerequisites: POLS 457 plus 4 units in POLS 450-456. Selected topics in comparative politics. May focus on specific geographic areas, particular political processes, and/or specific stages of political development.

• **POLS 565 - Seminar: Public Sector Labor Relations**

(4)

Prerequisites: POLS 460 and 462. Collective bargaining in federal, state and local government, with emphasis on California. Differences between the public and private sectors, bargaining legislation, negotiations, impasse resolution.

• **POLS 567 - Seminar: The Third Sector and Nonprofit Organizations**

(4)

Study of increasingly integrated relationship between government and third sector service providers; professional management of nonprofit organizations in a complex environment; grant writing project. (Students who have taken POLS 467 cannot receive credit for POLS 567.)

• **POLS 568 - Seminar: Community Development Administration**

(4)

Prerequisite: Instructor consent. Theory and process of planned development; role of administration in formulating and implementing development goals at all political community levels; planning, strategy, obstacles, assistance, development of competent personnel, institution-building.

• **POLS 570 - Public Administration as a Field of Practice**

(4)

Introduction to the study of public administration as a field of practice, and as a foundation for the MSPA program.

• **POLS 571 - Intergovernmental Relations**

(4)

Prerequisites: POLS 460 and 462. Dynamics and patterns of vertical and horizontal intergovernmental relations; challenges to the contemporary urban administrator in dealing with other governments at all levels.

• **POLS 572 - Public Sector Organization and Management**

(4)

Prerequisites: POLS 460 and 462. Organization structures and theories of management in the public sector. Decision-making, human relations, goal setting, leadership in government organizations.

• **POLS 573 - Public Sector Human Resource Management**

(4)

Prerequisite: POLS 460 and 462. Case studies of personnel problems encountered in governmental agencies; examination of varying roles of boards, commissions, and official legislative bodies; new frontiers in personnel research and personnel legislation.

• **POLS 574 - Public Budgeting and Financial Administration**

(4)

Prerequisites: POLS 460 and 462. Issues and problems in budget authorization, execution, and control, including public policy implications; special emphasis on program and performance budgeting.

• **POLS 575 - Seminar: Administrative Systems in Pacific Rim Nations**

(4)

Prerequisites: POLS 460 and 462. Comparison of public sector administrative systems in selected Pacific Rim nations. Analysis of the impact of the administrative environment on governmental institutions.

• **POLS 578 - Research Design for Public and Nonprofit Managers**

(4)

Prerequisites: POLS 281 or equivalent, 460 and 462. Quantitative and qualitative approaches to research in public and nonprofit administration focusing on research designs and measurement, resulting in the preparation of an individual applied research design.

• **POLS 579 - Public Sector Information Management and Computing**

(4)

Prerequisites: POLS 460 and 462. Public sector computer management trends, issues and applications. Issues of particular concern to public sector managers; information policy and public access, privacy, security, computer crime.

• **POLS 580 - Data Analysis for Public and Nonprofit Managers**

(4)

Prerequisites: POLS 281, or equivalent, 460 and 462. Quantitative approaches to research in public and nonprofit administration, for policymaking and program evaluation, covering research designs, measurement, and descriptive, bivariate, and multivariate analysis using the SPSS software.

• **POLS 581 - Policy Analysis for Public and Nonprofit Managers**

(4)

This is an introduction to policy analysis, providing a current assessment of how analysis is used in public decision-making and practical experience with doing applied analysis.

• **POLS 583 - Seminar: Health Politics and Policy**

(4)

Health politics and policy at the national level and in California. Role of Congress, executive branch, media, interest groups, and industry. Policy tradeoffs, design, implementation, and evaluation of health policy.

• **POLS 584 - Seminar: Issues in the Metropolitan Area**

(4)

Prerequisites: POLS 460 and 462. This seminar surveys the special problems of cities at the turn of the 21st century, focusing on the discovery of characteristics of the ideal community and their use in administration.

• **POLS 585 - Seminar: Regulation, the Environment and California Public Policy**

(4)

Prerequisites: POLS 460 and 462. The interrelationships among regulatory policies, environmental problems and public policy in California.

• **POLS 587 - Seminar: Aging Policy, Politics, and Administration**

(4)

Older Americans in the political system. Political and policy analysis of retirement, Social Security, Medicare, Medicaid, disability programs. Discussion of administration and policy alternatives, including privatization.

• **POLS 590 - Seminar: Philosophy of Public Service**

(4)

Prerequisites: POLS 561, instructor consent. Past and present philosophies of public service; bureaucracy in modern society; social-psychological and ethical aspects of public service; case studies of decision making.

- **POLS 591 - Seminar: Administrative Theory and Behavior**

(4)

Prerequisite: POLS 472. Analysis of administrative theory and utilization of advances in behavioral research as they apply to studies of administrative process and organization.

- **POLS 592 - Political Science Practicum**

(5)

Prerequisite: Advisor approval. Independent supervised field experience in a political or non-profit organization, or public agency. Major report or paper required.

- **POLS 594 - Applied Research in Public and Nonprofit Administration**

(4)

Prerequisites: POLS 578, 579, 580. Implementation and completion of applied research in public or nonprofit administration. Follows individual research design developed in POLS 578.

- **POLS 595 - Selected Issues in Public Administration**

(4)

Prerequisite: Twelve units in public administration, including one seminar. Presentation and discussion of selected issues and trends in administrative processes at all levels of government. Topics change. May be repeated to maximum of 8 units with adviser approval.

- **POLS 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

- **POLS 597 - Graduate Research**

(5)

Prerequisites: Consent of faculty sponsor and graduate adviser; proposed study must be approved prior to registration. Directed research on a problem in Political Science from conception through design, data gathering, analysis and final written report.

- **POLS 598 - Graduate Directed Study**

(4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units.

- **POLS 599 - Thesis**

(1-5)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. Graded CR/NC.

Political Science (Undergraduate)

POLS 150 is prerequisite to all upper division POLS courses except 310, 322, 330, 342, 351, 358, 360 and 426.

The department recommends completion of the 300 level required courses before enrolling in 400 level courses.

• POLS 150 - Government and American Society

(4)

American political system with emphasis on role and function of government in social context of a democratic political system. Satisfies U.S. Constitution and California state and local government requirements. Not open to students who have completed an introductory college course in U.S. government.

GE AM

• POLS 155 - Critical Analysis of Political Communication

(4)

Critical analysis of ideological messages, political biases, and manipulative devices in all forms of communication, from newspaper reporting to scholarly texts, from films to television news.

GE A3

• POLS 200 - California State and Local Government

(2)

Functions and structure of California state and local government units, current aspects of governmental process and problems in state. Satisfies California state and local government requirement.

GE AM

• POLS 250 - World Politics

(4)

Major issues and problems among nations; international organization and conflict resolution.

GE D

• POLS 254 - Special Topics in Political Science

(1-4)

Current topics of special interest in political science and related disciplines, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

• POLS 281 - Quantitative Methods in Political Science

(5)

Prerequisite: POLS 150; MATH 091 or satisfactory performance on mathematics placement examination given during registration. Descriptive and inferential statistics; emphasis on practical applications in political science. Distributions on a single variable, associations between two variables, tests of hypotheses; bivariate computer analysis, including individual projects. Lecture 4 hours, laboratory 2 hours.

• POLS 310 - Gender, Politics, and Government

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. The influence of gender and sexual orientation on

political behavior, on elective and appointive government institutions, and on public policies; historical reasons for gender-related differences, political movements to overcome discrimination, and analysis of emerging trends.

GE Theme C ; Approved diversity course

• **POLS 330 - Politics of Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Effects of older Americans on the political system. Political and policy analysis of retirement, Social Security, Medicaid, disability programs. Problems of intergenerational equity.

GE Theme F

• **POLS 342 - Rights and Justice in Communication and Politics**
(also listed as COMM 342)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Freedom of communication, political rights, diversity, and justice: the evolution of these rights in the United States; analysis of contemporary problems, global implications, and potential solutions in our multicultural world. Some sections of this course will be offered online.

GE Theme H ; Approved diversity course

• **POLS 348 - Issues in Ancient and Modern Political Thought**

(4)

Prerequisite: Completion of Basic Subjects (Block A) and at least one course from Block D. This course will compare important ancient and modern authors, both eastern and western, on issues including, race, gender, justice, human nature versus culture, civil disobedience, freedom, colonialism and slavery.

GE Theme I ; Approved diversity course

• **POLS 360 - Dynamics of Change in the Developing World**
(also listed as LAS 360 and PAS 360)

(4)

Prerequisites: Completion of G. E. Basic Subjects (Block A) and one course from Block D. How the Third World developed and how it is changing in relation to the rest of the world.

GE Theme A ; Approved diversity course

• **POLS 371 - Foundations of American Politics**

(4)

Prerequisite: POLS 150. Recommended prerequisite: POLS 205. Upper division core requirement. Analysis of the structure, functions and relationships among American national institutions, including executive, legislative and judicial branches, media, political parties, citizens and groups.

• **POLS 372 - Foundations of Political Theory**

(4)

Prerequisite: POLS 150. Recommended prerequisite: POLS 205. Upper division core requirement. From an institutional perspective, this course examines: Who should rule? What are the limits of political obligation? What is social justice? What is human nature?

• **POLS 373 - Foundations of Comparative Politics**

(4)

Prerequisite: POLS 150. Recommended prerequisite: POLS 205. Upper division core requirement. Study of the comparative method and of major research traditions and topics in comparative politics.

• **POLS 374 - Foundations of Global Politics**

(4)

Prerequisite: POLS 150. Recommended prerequisite: POLS 205. Upper division core requirement. Global politics examines the far-reaching political implications of globalization on nation-states, international regimes and organizations, global security, and non-state actors.

• **POLS 395 - Community Service in Political Science**

(1-4)

Prerequisites: prior approval of Political Science adviser in consultation with EPIC director, acceptance by community agency. Participation in work of community agency or activity utilizing professional or vocational skills in service to community. Credit not applicable toward political science major. May be repeated to maximum of 9 units. Graded CR/NC.

• **POLS 400 - Power and Policy in Washington: Congress and the President**

(4)

Structure, functioning, and interaction between Congress and the presidency.

• **POLS 403 - State and Local Government**

(4)

Nature of state politics, analysis of legislative, judicial, and administrative organization and process; local government in metropolitan areas; all with reference to California.

• **POLS 404 - Urban Government and Politics**

(4)

Problems of political influence, public policy, intergovernmental relations, and formal structure in American urban areas.

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HELP

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Political Science (Undergraduate)

POLS 150 is prerequisite to all upper division POLS courses except 310, 322, 330, 342, 351, 358, 360 and 426.

The department recommends completion of the 300 level required courses before enrolling in 400 level courses.

• **POLS 406 - Los Angeles City Politics**

(4)

Los Angeles within federal system; structures and functions; charter examination; policy issues; dominant individuals; social classes; minority influence; political coalitions; public vs. private sector relations and conflict.

• **POLS 408 - Political Socialization and Public Opinion**

(4)

The study of how individuals acquire their political beliefs and ways in which these opinions are communicated to others in society. Emphasis on subcultural and gender differences.

• **POLS 409 - Minority Politics in the U.S.**

(4)

Overview of ethnic politics in U.S. from both historical and contemporary perspectives; American Indian, Asian, black, and Hispanic political movements in U.S.

• **POLS 414 - Politics and the Media**

(4)

Relationships between government and the media; newsgathering techniques, journalist/government relations, role of media in presidential campaign politics.

• **POLS 418 - U.S. Political Parties, Campaigns, and Elections**

(4)

Role of political parties in campaigns and elections; role of the media, consultants, pollsters, and parties in recruiting, nominating, and electing candidates.

- **POLS 420A - Model United Nations**

(4)

Co-requisite: POLS 420B. This course is intended to prepare students for their role as delegates at the National Model UN conference. May be repeated to maximum of 8 units as country selection varies.

- **POLS 420B - Model United Nations**

(4)

Co-requisite: POLS 420A. This course is intended to examine the political, social and economic background of the assigned country for the national MUN conference. May be repeated to maximum of 8 units as country selected varies.

- **POLS 425 - U.S. Foreign Policy in a Changing World**

(4)

Theory and practice of contemporary American foreign policy.

- **POLS 426 - International Political Economy**
(also listed as ECON 426)

(4)

Prerequisites: Four units each in POLS and ECON. Interaction of politics and economics in the international arena.

- **POLS 427 - International Relations**

(4)

Theories and practice of international politics.

- **POLS 429 - U.S. National Security Policy**

(4)

The nexus between politics and military force in coercive diplomacy and limited war; nuclear weapons, arms control, and proliferation; the budgetary and operational consequences of defense organization.

- **POLS 431 - Classical Political Theory**

(4)

Exposition and critical analysis of ideas of major political thinkers from Plato to 17th century.

- **POLS 433 - Modern Political Theory**

(4)

Studies in character of contemporary normative political theory; systematic political theories of Liberalism, Conservatism, Nationalism,

Marxism, Communism, Fascism, Socialism, Democracy, and Irrationalism.

• **POLS 435 - American Political Thought**

(4)

American political ideas from Puritan period to present.

• **POLS 437 - Twentieth Century Continental Political Thought**

(4)

Prerequisites: POLS 150 and 372. The course will examine answers to important questions of political theory from the perspective of several important European traditions of thought that developed in the twentieth century.

• **POLS 440 - Judicial Process**

(4)

Judicial process as function of American government; survey of schools of legal thought, role of legal theory in functioning of courts.

• **POLS 441 - American Constitutional Law: Federalism**

(4)

Recommended prerequisites for POLS majors in Prelaw option: POLS 440, HIST 479. Role of Supreme Court in American government; judicial review; relationship between national and state governments, especially in areas of commerce and taxation; relationship between executive, legislative, and judicial branches of government.

• **POLS 442 - American Constitutional Law: Civil Rights**

(4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. The constitutional rights of persons arising from the First and Fourteenth Amendments to the constitution with particular emphasis on equal protection of the laws and discrimination, and the right to privacy.

• **POLS 443 - American Constitutional Law: Civil Liberties**

(4)

Recommended prerequisite: POLS 440. The constitutional liberties of persons arising from the First and Fourteenth Amendments to the constitution with particular emphasis on freedom of speech, press, religion, assembly, and petition.

• **POLS 444 - Mock Trial**

(4)

Prerequisite: POLS 440 or instructor consent. Provides an introduction to the theory and practice of conducting a trial including civil and criminal procedure, the rules and presentation of evidence, ethics, and trial technique.

• **POLS 445 - Judicial Behavior**

(4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. Contemporary approaches to study of judicial behavior, including judicial role, decision making, small group analysis, socialization, and analysis of judicial voting behavior.

• **POLS 446 - Comparative Legal Systems**

(4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. Survey and systematic analysis of selected legal systems and functional relationships with social systems; emphasis on social context of legal systems and comparative approach to their study.

• **POLS 447 - Legal Research and Writing**

(4)

Prerequisite: Satisfactory completion of the WPE. Recommended prerequisite: Completion of POLS 441, 442 and/or POLS 443. Individual and group research and writing projects in public law.

• **POLS 448 - International Law (4)**

(4)

Recommended Prerequisites: POLS 150 and POLS 440. Examines the basic structure of the international legal system including theoretical debates and issues surrounding the use of international law and policy to address contemporary world problems.

• **POLS 450 - European Politics**

(4)

Course content varies, focusing on contemporary politics in selected European countries. May be repeated to maximum of 8 units as topic varies.

• **POLS 451 - Latin American Politics**

(4)

Course content varies, focusing on contemporary politics of selected Latin American countries. May be repeated to maximum of 8 units as topic varies.

• **POLS 452 - Government and Politics of China**

(4)

Analysis of the government and politics of China. Review of recent development in China's modernization and its international impact.

• **POLS 453 - Politics of Africa and the Mid-East**

(4)

Course content varies, focusing on contemporary politics of selected African and Middle Eastern nations. May be repeated to maximum of 8 units as topic varies.

• **POLS 454 - Selected Topics in Comparative Politics**

(1-4)

Selected topics in comparative government as announced in the schedule of classes. May be repeated to a maximum of 8 units as topic varies.

• **POLS 456 - Politics of the Caribbean and Central America**
(also listed as PAS 456)

(4)

Political development and dependency in the Caribbean and Central America.

• **POLS 458 - Politics in Asian-American Immigration**

(4)

Examining and evaluating the politics of Asian-American immigration in the United States, and reviewing the impact of Asian Americans on political development at home and abroad. Course includes research and writing projects in comparative politics.

• **POLS 459 - Politics of East Asia**

(4)

Course content varies. Political and economic processes of development in East Asia. The region's impact on the world.

• **POLS 460 - Foundations of Public Administration**

(4)

Politics of administrative power; methods of controlling bureaucracy; changing agency environments; dynamics and processes of public management; government as a career.

• **POLS 461 - Dynamics of Urban Administration**

(4)

Politics of governing urban U.S.; problems caused by multiple governmental and administrative bodies, overlapping jurisdictions, tax revolts; existing system's capabilities to respond to those problems.

• **POLS 462 - Public Policy**

(4)

Introduction to public policy making and implementation, stressing the politics of the policy making process.

• **POLS 463 - Public Sector Human Resource Management**

(4)

Recommended prerequisite: POLS 460. Best practices and theories of human resource management in government; merit systems versus at-will employment; compensation policies; recruitment; performance management; grievance and disciplinary procedures; labor-management relations.

• **POLS 464 - Geographic Information Systems (GIS) Applications in Political Science**
(also listed as GEOG 464)

(4)

Prerequisites: GEOG 282, POLS 281, or consent of instructor. Focuses on the application of Geographic Information Systems in politics and policy to see the effects of public decisions in areas such as political behavior, redistricting, and service delivery.

• **POLS 466 - Public Financial Administration**

(4)

Recommended prerequisites: courses in accounting and statistics. Role of financial administration and budgeting in determination of governmental policy, administrative planning and management, control of government operations, intergovernmental relations, and relation to private economy.

• **POLS 467 - The Third Sector and Nonprofit Organizations**
(also listed as YAA 467)

(4)

Starting and managing nonprofit enterprises; differences between public, nonprofit, and for-profit organizations; nature and scope of the third sector; grant writing project.

• **POLS 469 - Administration of Human Service Programs**

(4)

Recommended prerequisite: POLS 460. The course examines the changing roles and patterns of funding, organization, and providing community services by public agencies and not-for-profit organizations.

• **POLS 472 - Organization and Management**

(4)

Recommended prerequisite: POLS 460. Organization structure, human factors in organization, dynamics of organizational change, internal adaptability to external environment; problems, limitations, and trends in governmental organization and management.

• **POLS 476 - Administrative Law**

(4)

Recommended prerequisites: POLS 440, 460. Process in administrative adjudication, regulation, and rule making; duties and liabilities of public officers, appeal procedures, trends in regulation.

• **POLS 481 - Advanced Quantitative Research Methods in Political Science**

(4)

Prerequisite: POLS 281 or instructor permission. Review of descriptive and inferential statistics; introduction to regression analysis to predict continuous, binary, and ordinal outcomes; practical applications in political science. Lecture 4 hours.

• **POLS 490 - Special Studies in Political Science**

(4)

Intensive study of selected areas and special problems in political science. May be repeated as subject matter changes.

- **POLS 498 - Senior Capstone Seminar**

(4)

Prerequisites: Lower and Upper Division Required Core Courses, Senior Standing, and satisfactory completion of the WPE. Students will select a major research paper topic and further develop discipline based research, writing and oral communication skills. Examination of career paths and development of post graduation plan. Must pass with a grade of C or better.

- **POLS 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Department approval. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units.

Power, Energy and Transportation (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 100 - Introduction to Automotive Mechanisms**

(3)

Designed to meet general industrial education needs of Industrial Arts majors. Emphasis on general mechanical concepts and related physical principles, maintenance procedures, and consumer data. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 370 - Power, Energy and Transportation**

(3)

Power energy and transportation concepts: available energy sources, power conversion process, power transmission methods and land, sea, air, and space transportation systems. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 405 - Engine Design and Performance**

(3)

Theory of engine design and operation; requirements of modern gasoline power plants studied and performance factors analyzed under varying operating conditions; emphasis on dynamometer testing, engine disassembly, and assembly. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 470 - Electric, Hybrid and Alternative Fueled Vehicles**

(3)

Prerequisites: TECH 370 or with consent of instructor. Technology and application of electric, hybrid, and alternative Fueled vehicles: power plant design, electric motor and heat engine characteristics, energy storage, system controls, fuel cells and solar powered vehicles. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 474 - Power Generation, Distribution and Utilization**

3

Prerequisite: TECH 370 or with consent of instructor. Detailed aspects of power conversion and distribution systems: Large and small-scale electric power system, fossil fuels, wind, solar, nuclear, geothermal, biomass, hydrogen as an energy carrier with social and environmental

impacts. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 476 - Electronic and Computer Control Systems for Power, Energy and Transportation**

(3)

Prerequisite: TECH 370 or with consent of instructor. Theory and application of electronic and computer controls for power, energy and transportation systems. Includes circuits, sensors, signal conditioning, microprocessors, logic, programming, data acquisition and system development. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 478 - Emerging Technologies in Power, Energy, and Transportation**

(3)

Prerequisite: TECH 370 or with consent of instructor. Varying content and topics relating to emerging power, energy, and transportation technologies. Includes research methodologies, proposal preparation, and investigation in individual, team, and class explorations. May be repeated up to 6 units. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Professional and Elective (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

- **TECH 101 - Industrial Safety for Industrial Education**

(3)

Industrial safety related to industry and school shops; history, accident facts, liability, psychology, worker performance, sources of information, and industrial methods of operation.

- **TECH 200 - History of Technology**

(3)

Human accomplishment in areas of discovery, invention, and industry from prehistoric times to present.

- **TECH 250 - Impact of Technology on the Individual and Society**

(4)

An exploration of the ways technology impacts individual human development within global social systems. Including an emphasis on lifelong acquisition of technology skills with an optional service-learning component.

GE E

- **TECH 291 - Computers in Technology**

(3)

Introduction to computers with applications for the technologist. Designed to assist students in becoming literate in topics applicable to technological areas such as production manufacturing, and CAD/CAM. Service learning required. Lecture 1 1/2 hours, laboratory, 4 1/2 hours.

- **TECH 305 - Information Literacy for Technologists**

(2)

The process of finding, organizing, and using information in print, electronic and other formats for technologists.

- **TECH 383 - Ancient and Modern Technology**
(also listed as ENGR 383)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient technology and technological thought and its relationship to modern science and technological thought.

- **TECH 395 - Community Service in Technology**

(1-4)

Prerequisites: Eight units of upper division TECH courses, approval by faculty sponsor in consultation with EPIC Director; acceptance by a community agency. Participation in work of community agency or activity utilizing professional skills in community service. Graded CR/NC. May be repeated to maximum of 8 units.

- **TECH 398 - Cooperative Education**
(see UNIV 398)

(1-4)

Cooperative Education

- **TECH 400 - Written Communication Skills for Industrial Technology**

(4)

Prerequisites: ENGL 102 and UNIV 400. Written communication skills for the professional needs of Industrial Technology students with emphasis on education, public, industrial, business education and public sector requirements.

- **TECH 414 - Robotics in Industry**

(2)

Prerequisite: Upper division or graduate standing. History, terminology, economics, applications, and implications of industrial robots in the work place.

- **TECH 454L - Special Topics in Industrial Studies**

(1-4)

Prerequisites: Upper division standing; others as needed for specific topic. Current issues, problems, and interests in technology. May be repeated to maximum of 9 units as subject matter changes.

- **TECH 454P - Special Topics in Industrial Studies**

(1-4)

Prerequisites: Upper division standing; others as needed for specific topic. Current issues, problems, and interests in technology. May be repeated to maximum of 9 units as subject matter changes.

- **TECH 482 - Metrics for Industry**

(3)

Adapting industrial operations to metric system; standards and application; development of instructional materials; special problems for industrial educators.

- **TECH 484 - Automated Manufacturing Systems**

(4)

Applications and theories of advanced production systems in automated manufacturing environments; emphases include direct and computer numerical control, computer integrated manufacturing CAD/CAM; flexible manufacturing; group technology. Lecture 2 1/2 hours, laboratory 4 1/2 hours.

- **TECH 485 - History, Philosophy, and Organization of Industrial Education**

(3)

Prerequisites: TECH 300AB, upper division standing, Industrial Arts major or minor. History and philosophy of industrial education in Western civilization; comparative study of development and organization of industrial education in the U.S.

- **TECH 486 - Seminar: Vocational Education**

(1-4)

Prerequisite: Upper division standing. Problems in maintaining and modifying vocational education programs. Emphasis on changing philosophies, concepts, practices, legislation, technical content, instruction, organization, and management. May be repeated with instructor consent.

- **TECH 487 - Seminar: Comprehensive Career Education for Industrial Studies and Vocational Education**

(3)

Prerequisite: Upper division standing in the Department of Technology. Development, organization, and implementation of comprehensive career education for industrial arts and vocational education; emphasis on concepts, techniques, strategies, implementation, levels of instruction, leadership, administration, and organization. May be repeated to maximum of 9 units as subject matter changes.

- **TECH 488 - Fluid Power**

(3)

Prerequisite: PHYS 150. Application of principles of industrial hydraulic and pneumatic circuits; emphases on basic laws and operation of pressure, directional control valves, and actuators as they apply to manual and automated circuits. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

- **TECH 489 - Industrial Training Methods**

(4)

Training approaches for industrial/technical management personnel; overview of design and management of the training function in the modern work world, instructional design, and delivery systems.

- **TECH 490 - Advanced Problems in Industrial Studies**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490A - Automotive**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490D - Drafting**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490E - Electronics**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490G - Graphic Communication**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490M - Metal Technology**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 490W - Wood Technology**

(1-9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

- **TECH 495 - Practicum in Industrial Technology**

(4)

Prerequisites: Senior standing and/or instructor consent. Capstone experience to demonstrate competencies already learned. Application of

knowledge, skills and attitudes related to the design, production, and servicing of commercial and industrial products and devices. Lecture 2 1/2 hours, laboratory 4 1/2 hours.

• **TECH 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated for 8 units of credit.

Psychology (Undergraduate)

PSY 150 and GE blocks A and B are prerequisite to all upper division psychology courses.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• **PSY 150 - Introductory Psychology**

(4)

Psychological perspectives on human behavior; principles and methods of psychology as a science; introduction to major topic areas of psychology. Relationship of psychological principles to sociocultural experiences.

*C-ID PSY 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **PSY 160 - Psychology of the Developing Person**

(4)

Principles of life-span development from birth to death, from a psychological perspective. Salient physiological, social, and psychological factors relevant to understanding development of the integrated person.

*C-ID PSY 180

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE E

• **PSY 170 - Introductory Behavioral Neuroscience**

(4)

Relationship between brain and behavior; includes biological determinants of the following: Sensation, perception, learning, memory, emotion, and cognition.

*C-ID PSY 150

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

PSY 200 - Introduction to Psychological Science

(4)

Prerequisites: Completion of Basic Subjects (Block A) and PSY 150. Introduction to psychology as a scientific discipline, including basic research concepts, research findings in various areas of psychology, training for undergraduate and graduate degrees, and fields of study/practice in psychology.

• PSY 202 - Descriptive Statistics in Psychology

(5)

Prerequisites: PSY 150, GE critical thinking and Math102. Basic numerical and graphical methods in psychology; statistical notation, data presentation, measures of central tendency, dispersion and covariation, probability; utilization of personal computers in statistics. Lecture 4 hours, laboratory 3 hours.

• PSY 302 - Inferential Statistics in Psychology

(5)

Prerequisite: MATH 102 and PSY 202. Provides an introduction to inferential statistics. Topics include hypothesis testing, probability, parametric (z, t, and F tests, correlation/regression) and nonparametric (Chi-square) procedures, the written presentation of statistical results, and the use of statistical software packages. Lecture 4 hours, laboratory 3 hours.

• PSY 304 - Research Methods in Psychology

(6)

Prerequisites: ENGL 102*, PSY 302. **WPE. Introduces experimental and non-experimental research design and methods. Topics include the scientific method, measurement and survey design, reliability and validity, and sampling. Students develop research projects and prepare APA – style scientific manuscripts. Use of statistical analysis software. Lecture 4 hours, recitation 1 hour, laboratory 3 hours. *Students subject to earlier catalogs must satisfy this prerequisite with ENGL 101 or 190. ** Must have passed the WPE.

• PSY 307 - Physiology and Psychology of Violence and Aggression (also listed as NURS 307)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychobehavioral approaches to violent individuals; analysis of and research support for understanding the role diversity plays in intercultural and intergroup violence drawn from natural, medical, and behavioral sciences.

GE Theme B

• PSY 308 - History and Systems of Psychology

(4)

Critical survey of the principal historical developments in psychology, including significant philosophical and scientific influences, with an emphasis on pioneering individuals and major systems and their relevance to contemporary psychology.

• PSY 309 - Human Violence and Individual Change (also listed as COMD 309)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of theories, research and practices for accomplishing individual change; application of models of change to alter violent or counterproductive behaviors and attitudes; improving human interaction, and reducing violence/abuse. Some sections of this class may include a service learning component where students volunteer in a community program addressing violence for 2 hours per week.

GE Theme B

- **PSY 310 - Abnormal Psychology I**

(4)

Prerequisite: PSY 150. A basic survey of psychological disorders focusing on the context of how gender, race and culture impact our understanding of pathology and abnormality.

- **PSY 318 - Psychology of Personality**

(4)

Prerequisite: PSY 150. Description and evolution of major theories of personality, and critical evaluation of research findings in personality psychology.

- **PSY 322 - Social Psychology**

(4)

Prerequisite: PSY 150. Introduction to major theories of social psychology with special emphasis on such topics as aggression, liking and loving, altruism, prejudice, and attitude theory and measurement.

- **PSY 323 - Psychology of Emotion and Motivation**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. The influence of learning, cognition, evolution, pharmacology and physiology on emotion and motivation.

GE Theme E

- **PSY 330 - Psychology of Prejudice and Discrimination**

(4)

Theories and research on causes and effects of prejudice and discrimination, focusing on racism, classism, sexism, and heterosexism. Examination of personal experiences and attitudes. Approaches to promoting tolerance and equality.

- **PSY 343 - Child and Adolescent Cognition**

(also listed at CHDV 343)

(4)

Prerequisite: PSY 160 or CHDV 140 with a grade of C or better. Cognitive changes from birth to adolescence. Analysis of major theories of cognitive development. Cognitive processes examined include memory, language, problem solving, social cognition, intelligence, symbolic thinking, reading, writing, math, and technology.

- **PSY 354 - Selected Topics in Psychology**

(4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in psychology, as announced in Schedule of Classes. May be repeated for credit.

- **PSY 362 - Psychological and Psychosocial Developmental Stages in Maturity and Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Critical evaluation of psychological and psychosocial issues related to adulthood and aging, with consideration of developmental theory and diversity issues.

GE Theme F

• **PSY 388 - Sex and Gender**
(also listed as BIOL 388N)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychological differences between the sexes; topics include genetics of sexual determination, sexual development and anomalies, hormones in physiology and behavior, psychological differences in behavior. No credit toward Biology major or minor.

GE Theme C

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HELP

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Psychology (Undergraduate)

PSY 150 and GE blocks A and B are prerequisite to all upper division psychology courses.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

• PSY 395 - Field Experience in Psychology

(1-4)

Prerequisite: Department approval. Opportunity to study psychological principles of behavior in nonlaboratory settings. May involve observation and participation in community, clinical, educational, business or other organizational settings. May be repeated to a maximum of 8 units. Graded CR/NC.

• PSY 398 - Cooperative Education

(1-4)

Prerequisite: Completion of at least 16 psychology upper division units. Department approved employment opportunity to work in a setting that has a psychological orientation. CR/NC. Maybe repeated up to a maximum 8 units

• PSY 401 - Physiological Psychology

(4)

Prerequisite: PSY 170. Relationship between integrated behavior and physiological processes; theories that relate psychology and physiology.

• PSY 402 - Media Psychology

(4)

Review of theoretical and research literature to determine mass communication impact (e.g., film, television, print) on social and psychological functioning of individuals and societies.

• PSY 403 - The Psychosocial Dynamics of Child Maltreatment and Family Violence

(also listed as COUN 403)

(4)

Psychosocial factors in child maltreatment and family violence: developmental considerations, assessment, interventions, legal and ethical issues, research findings, and community resources.

• **PSY 410 - Abnormal Psychology II**

(4)

Prerequisites: PSY 310. An in-depth examination of psychological disorders with a focus on standardized diagnosis and treatment, exposure to readings and research examining current theory and practice in psychopathology.

• **PSY 411 - Advanced Research Methods in Psychology**

(4)

Prerequisite: PSY 302 and PSY 304. Logic of research methodology and statistical analysis; evaluation of adequacy of research strategies; interpretation of results.

• **PSY 412A - Psychology of Human Development: Infancy and Childhood**

(4)

Theory and empirical literature pertaining to infancy and childhood.

• **PSY 412B - Psychology of Human Development: Adolescence and Young Adulthood**

(4)

Theory and empirical literature pertaining to adolescence and young adulthood.

• **PSY 414 - Analysis of Variance**

(4)

Prerequisite: PSY 302. Various analysis-of-variance models in analysis and interpretation of psychological data.

• **PSY 415 - Interpersonal Relationships**

(4)

Prerequisites: PSY 150. The psychology of interpersonal relationships. Conceptual, methodological, and statistical issues in relationships research. Attraction and mate selection; relationship cognition; relationship development, conflict, dissolution, affiliation, loneliness, social support. Writing project.

• **PSY 416 - Human Sexuality**

(4)

Psychology of human sexuality. Conceptual and methodological issues in sexuality research. Sexual development; attitudes and behavior; sexual/gender identity and orientation; paraphilias and variants; dysfunctions and treatment; victimization; individual/sociocultural differences.

• **PSY 417 - Single Case Research Design**

(4)

Prerequisites: PSY 304 and PSY 428. Basic types of single case experimental designs including withdrawal, reversal, multiple baseline, and multi element designs; methods of observation, measurement, recording behavior; assessing reliability of observations.

• **PSY 419 - Psychology of Gender**

(4)

Prerequisites: GE critical thinking requirement, introductory social science course, research methods course. Psychological research and theory about gender, emphasis on socialization, stereotyping, expectations and effects on individuals; differences and similarities between women and men; intersections of gender, race, socioeconomic status, and sexuality.

• **PSY 421 - Psychology of Learning and Behavior**

(4)

Prerequisites: PSY 304. Principles of classical and operant conditioning. Emphasis on experimental findings, mostly with nonhuman subjects, and their application to human behavior, with consideration of both current and historically relevant theories.

• **PSY 424 - Cognitive Psychology**

(4)

Prerequisite: PSY 304. Theories and experimental literature with respect to the nature of memory and cognition.

• **PSY 425 - Sensation and Perception**

(4)

Prerequisites: PSY 170, 304. Examination of theories and experimental literature with respect to variables that determine the organism's ability to respond differentially to sense data.

• **PSY 426 - Family Therapy Dynamics and Perspectives**

(4)

Prerequisite: PSY 310 or 318. Theoretical perspectives in family processes; treatment approaches; significant issues in family life.

• **PSY 427 - Family Therapy Techniques: Strategies for Change**

(4)

Prerequisites: PSY 426, instructor consent. General systems theory and analyses applied to marital and family problem solving.

• **PSY 428 - Introduction to Analysis of Behavior**

(4)

Basic principles and procedures of behavior analysis and their application to understanding verbal, social, and abnormal behavior, and therapy as well as consideration of the ethics of applied behavior analysis.

• **PSY 431 - Statistical Methods in Psychological Assessment**

(5)

Prerequisite: PSY 202. Theoretical issues in individual differences; introduction to a variety of group and individual psychological tests and assessment techniques; role of tests in clinical evaluation; problems of reliability, validity, and interpretation. Lecture 3 hours, laboratory 3 hours.

• **PSY 433 - Psychology of Cognitive Development**

(4)

Prerequisite: Completion of PSY 412A. Evolution of cognitive processes from simple organisms to adult human beings. Piaget's theory; development of dialectic operations; perceptual and language development and apprehension of reality; relationship of social development to cognitive development.

• **PSY 435 - Behavior Analysis & Treatment of Developmental Disabilities**

(4)

Prerequisites: PSY 417 or 428. Contemporary behavior-analytic research on assessment and treatment of individuals with developmental disabilities.

• **PSY 436A - Counseling and Psychotherapy: Theories, Methods, and Issues**

(4)

Prerequisites: Senior or graduate standing and PSY 310 or 318. Theories of counseling and psychotherapy; introduction to clinical interviewing techniques.

• **PSY 436B - Counseling and Psychotherapy: Theories, Methods, and Issues**

(4)

Prerequisite: PSY 436A. Current issues in counseling and psychotherapy; practical application of current psychotherapy models to individual, marital, and family therapy; student participation in intensive evaluation of therapeutic techniques.

• **PSY 438 - Introduction to Clinical and Counseling Psychology**

(4)

Prerequisite: PSY 310. Issues in education, training, professional activities and employment opportunities in clinical and counseling psychology; designed primarily for students considering careers in these fields. Emphasis on counseling theories, cross-cultural counseling issues/research and assessment.

• **PSY 439 - Racial/Ethnic Minority Mental Health**

(4)

Prerequisite: PSY 150. A critical evaluation of the research and clinical applications of cross-cultural psychology on mental health issues, including racism, relevant to Asian Americans, African Americans, and Latinos.

• **PSY 440 - Behavior Analysis and Autism**

(4)

Prerequisites: PSY 417 or 428. Provide basic information regarding Autism by reviewing current research, etiology, and characteristics of

individuals diagnosed with autism. The primary focus of the class will be on empirically validated, applied behavior-analytic approaches to treatment. Students complete group projects designed to practice common therapy skills.

- **PSY 445 - Community Psychology – Service Learning**

(4)

Applies principles of social and clinical psychology to community problems and well-being; analysis of social systems; introduction to community mental health and community change. Includes service learning option: students volunteer in community agency.

- **PSY 450 - Principles of Health Psychology**

(4)

Prerequisite: PSY 150. The effects of health upon behavior and of behavior upon health. Psychological consideration in health care.

- **PSY 454 - Special Topics in Psychology**

(1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to students in psychology, as announced in Schedule of Classes. May be repeated as subject matter changes.

- **PSY 462 - Psychology of Human Development: Maturity and Aging**

(4)

Prerequisite: PSY 150. Psychological factors in aging, including: developmental research methods, demographic trends, stereotypes of aging and ageism, cognition and memory, intelligence, creativity, wisdom, mental health, dementias, and death and dying.

- **PSY 464 - Psychology and the Law**

(4)

Intersection of psychology and the legal system including child abuse, eyewitness memory, juror decision-making, child custody, pleas and sentencing. Rights and responsibilities of mental health providers; legal versus ethical practice.

- **PSY 465 - Multicultural Psychology: Current Issues and Research**

(4)

Prerequisite: PSY 304 or equivalent. Theoretical and empirical approaches to the psychological understanding of diverse cultural groups. Conceptualizations of similarity and difference. Current findings and methodological issues in multicultural research.

- **PSY 485 - Directed Field Experience in Community Clinical Psychology**

(4)

Prerequisites: PSY 310 or 410; 412A or 412B; 322 or 462; agency acceptance. Application of psychological principles (interviewing, counseling) in supervised settings: service agencies, mental health centers, halfway houses, etc. Lecture, problem solving meetings, self and agency evaluation reports. May be repeated to maximum of 8 units. Graded CR/NC.

• **PSY 490 - Human Memory**

(4)

Prerequisite: PSY 304, Upper division standing. Principles of human memory. Emphasis on basic and applied experimental findings with a focus on individual differences and situational factors related to eyewitness memory and suggestibility in adults and children.

• **PSY 491 - Multivariate Statistics**

(5)

Prerequisite: PSY 302. The use and interpretation of multivariate data analysis techniques for qualitative and quantitative information and the implementation of these techniques using standard computer packages.

• **PSY 495 - Introduction to Graduate Study in Psychology**

(4)

Prerequisite: Open only to students enrolled in the MA program in Psychology. Provides an overview of the graduate program and the critical analysis of research. Analytical application of research design; program requirements, thesis preparation, and career planning are reviewed. Graded CR/NC.

• **PSY 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Instructor consent to act as sponsor. Empirical or library research investigation supervised by faculty. Project selected in conference with sponsor before registration; regular progress meetings final report submitted. May be repeated for credit (8 units total).

Psychology (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

• **PSY 500 - Seminar: Learning and Behavior**

(4)

Prerequisite: PSY 421. Examination of critical areas of the experimental literature in learning and behavior with a stress on issues related to the experimental analysis of behavior.

• **PSY 501 - Seminar: Sensation and Perception**

(4)

Prerequisite: PSY 425. Critical review of current literature; theories, methods, and problems concerning sensation and perception.

• **PSY 504 - Advanced Experimental Methods**

(4)

Prerequisite: Instructor consent. Nonstatistical issues in design of experimental psychological research. Topics include design logic, literature sources, apparatus, subjects. Emphasis on preparation of an experimental design in an area of student's interest.

• **PSY 506 - Seminar: Physiological Psychology**

(4)

Prerequisite: PSY 401. Critical discussions, including physiological correlates and mechanisms of motivation and emotion, learning and memory, human psychopathology.

• **PSY 510 - Seminar: Abnormal Psychology**

(4)

Prerequisite: PSY 410. Intensive analysis of major types of abnormal behavior, their development and prevention. Emphasis on relationship of abnormal behavior to theories of personality and research findings.

• **PSY 511 - Seminar: Developmental Psychology**

(4)

Prerequisites: PSY 304. 412AB or comparable undergraduate work in research methods and human development. Intensive analysis of current theories and research in developmental psychology.

• **PSY 512 - Behavior Disorders in Children**

(4)

Prerequisites: PSY 410, 412AB. Application of principles of psychology to behavior disorders in children. Designed primarily for clinicians, social workers, school psychologists, and parent educators.

• **PSY 515 - Advanced Statistical Methods in Psychology**

(4)

Prerequisite: PSY 414. Topics include fixed, mixed, and random models of analysis of variance, interaction, analysis of covariance, and miscellaneous nonparametric statistics.

• **PSY 516 - Seminar: Interpersonal Relationships**

(4)

Prerequisite: PSY 415. The psychology of interpersonal relationships. Conceptual, methodological, and statistical issues in relationships research. Affiliation and attraction; relationship development; cognitive and affective processes; satisfaction and stability; intervention. Research project.

• **PSY 522 - Seminar: Social Psychology**

(4)

Prerequisite: PSY 322. Theory, methodology, and applied problems dealing with the phenomena of social behavior. Individual projects required.

• **PSY 528 - Seminar in Applied Behavior Analysis**

(4)

Prerequisites: PSY 428 and PSY 417. The application of basic principles of behavior analysis to clinically and socially relevant problem behaviors with diverse populations. Discussion of methodological and conceptual issues in applied behavior analysis.

• **PSY 531B - Individual Testing and Case Study Techniques**
(also listed as COUN 531AB)

(4)

Prerequisites: COUN 428 and one of the following sequences: PSY 410 and 438; 410 and 431; or 310 and COUN 405A, 501 and 529. Intensive practice in administration and interpretation of better known testing devices for mental ability, perceptual and motor functioning, and personality dynamics, with attention to integration of results in case studies. Lecture 3 hours, laboratory 3 hours.

• **PSY 536 - Seminar: Counseling**

(4)

Prerequisites: PSY 410, or 436AB and instructor consent. Intensive discussion of typical counseling situations coordinated with readings in area; evaluation of selected counseling theories. Offered in general and special sections, e.g., child, family, group. May be repeated in different sections, with maximum of 8 units applied to master's degree.

• **PSY 538 - Seminar: Conceptual Issues in Behavior Analysis**

(4)

Prerequisites: PSY 421 and PSY 428. Conceptual and theoretical issues in behavior analysis including, but not limited to, the writings of B. F. Skinner.

• **PSY 542 - Human Sexuality: Dysfunction and Treatment**

(4)

Prerequisite: Eight units of course work in theory and techniques of counseling. Theoretical perspectives on treatment of sexual dysfunction; diagnosis, treatment, research findings, ethical considerations.

• **PSY 548 - Seminar: Behavior Analysis of Language**

(4)

Prerequisites: PSY 421, PSY 428. A Behavior analysis of language with an emphasis on Skinner's interpretation of verbal behavior.

• **PSY 565 - Seminar in Multicultural and Cross-cultural Psychology**

(4)

Prerequisites: Any one of the following courses: PSY 439, PSY 411, PSY 465, PAS 400, or CHS 410; or equivalent in prior undergraduate program. Current findings and critical issues relating to ethnic minority and other culturally different groups, including Black/African American, Latino(a), Chicano(a), and Asian cultural groups; sexual minorities; and differently abled groups. The application of psychological principles toward alleviating psychosocial problems faced by culturally different groups.

• **PSY 585 - Directed Clinical Practice**

(4)

Prerequisites: PSY 426; 436 AB; PSY 536; advancement to candidacy; departmental approval. Lecture, discussion, and supervised experience providing individual and family therapy in campus or community settings. May be repeated to 16 units. Graded CR/NC.

• **PSY 586 - Brief Psychotherapy and Crisis Intervention**

(4)

Prerequisites: Advancement to candidacy; PSY 436A. Principles of brief psychotherapy and crisis intervention. Emphasis on understanding basic issues and techniques involved in brief therapy strategies. Also, crisis intervention techniques from a variety of perspectives will be covered.

• **PSY 588 - Critical Problems in Psychology**

(4)

Prerequisite: Instructor consent. Critical problems in psychology as a science or as a profession. Topic varies each quarter. May be repeated for credit.

• **PSY 591 - Advanced Multivariate Statistics**

(5)

Prerequisite: PSY 491. Multivariate procedures focusing on degree of relationship significance of group differences, prediction of group membership, latent structure, and time course of events. Emphasis on written presentation of results and use of statistical software. Lecture 4 hours, laboratory 3 hours.

• **PSY 595 - Field Experience in Psychology**

(1-9)

Prerequisites: Advancement to candidacy; instructor consent; application to department in quarter prior to enrollment. Independent supervised field experience in an applied area of psychology. May be repeated to maximum of 12 units. Graded CR/NC.

• **PSY 596 - Comprehensive Examinations**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **PSY 597 - Graduate Research**

(1-6)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor; departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit. Graded CR/NC.

• **PSY 598 - Graduate Directed Study**

(1-4)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated for credit. Graded CR/NC.

• **PSY 599 - Thesis**

(1-9)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded CR/NC.

Public Health (Undergraduate)

• **PH 150 - Health and Wellness**

(4)

Current health and safety issues with an emphasis on disease prevention and wellness by evaluating current health knowledge and skills that can be incorporated into one's daily living.

GE E

• **PH 154L - Special Topics in Health Science**

(1-4)

Current topics of special interest to students in health science. May be repeated to a maximum of 12 units.

• **PH 154P - Special Topics in Health Science**

(1-4)

Current topics of special interest to students in health science. May be repeated to a maximum of 12 units.

• **PH 201 - Medical Emergencies Management**

(3)

Principles and techniques for giving immediate and temporary treatment in emergency situations; includes first aid and personal safety, community CPR, legal and safety aspects of medical aid and American Red Cross certification.

• **PH 254L - Special Topics in Health Science**

(1-4)

Current topics of special interest to students in health science. May be repeated to a maximum of 12 units.

• **PH 254P - Special Topics in Health Science**

(1-4)

Current topics of special interest to students in health science. May be repeated to a maximum of 12 units.

• **PH 350 - Health Maintenance Problems**

(3)

Prerequisite: GE biological science requirement. Beneficial and detrimental factors of environment and their effect on the body and maintenance of health.

• **PH 354L - Special Topics in Public Health**

(1-4)

Prerequisite: Upper division standing or consent of instructor. Current topics of special interest to students in public health. May be repeated to a maximum of 12 units.

- **PH 354P - Special Topics in Public Health**

(1–4)

Prerequisite: Upper division standing or consent of instructor. Current topics of special interest to students in public health. May be repeated to a maximum of 12 units.

- **PH 356 - Issues in Global Health**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Explores the emerging health challenges to people in the developing world. The effects of ecological, social, economic, and political changes on health are examined.

GE Theme A

- **PH 360 - Selecting Health and Medical Services and Products**

(3)

Consumer health, evaluation of health and accident insurance, quackery and fraudulent health practices, food and drug controls.

- **PH 370 - Environmental Racism**
(also listed as CHS 370)

(4)

Prerequisites: Completion of the Basic Subjects (Block A) and one course from Block B1. Use of epidemiology in environmental health. Morbidity and mortality in communities of color and lower economic status due to disproportionate distribution of environmental contaminants. Some sections of this course will be offered online.

GE Theme H

- **PH 410 - Theory and Principles of Public Health**

(4)

Prerequisites: PH 150. Theory, history and scientific basis of public health; examination of its interdisciplinary nature; discussion of public health issues, principles and practices.

- **PH 412 - Introduction to Epidemiology**
(also listed as MICR 412)

(4)

Fundamental principles in studying the distribution and determinants of health states and events in specified populations and implications for health and safety promotion and disease and injury prevention.

- **PH 413 - Health Communication**

(4)

Prerequisite: PH 445. Principles of planning and development of health communication programs in community health; strategies to develop activities for effective communication of health information for the general public, patients and allied health practitioners.

- **PH 431 - Community, Environmental Safety and Public Health Law**

(4)

Prerequisite: PH/MICR 412. Examination of federal, state and local laws governing public health, environmental health and occupational safety; overview of OSHA, CALOSHA, EPA, CALEPA regulations, enforcement procedures, appeal process; review of selected cases.

• **PH 434 - Process Safety Management**

(4)

Prerequisite: PH 430. Physical and process hazards in industrial settings; application of process safety management; review of applicable codes, standards and controls; evaluation of selected cases.

• **PH 438 - Food-Borne Illnesses: Etiology, Prevention and Control
(also listed as NTRS 438)**

(4)

Prerequisites: MICR 151 or 201 and 202. Food-borne diseases and their causes, control and prevention.

• **PH 440 - Health Care Delivery System**

(4)

U.S. health care delivery system and its relationship to health science professions using a systems model; input, throughput, and output issues identified and explored.

• **PH 445 - Health Promotion**

(4)

Prerequisite: PH 479 or consent of instructor. Foundations of health promotion and health promotion program content including behavior modification; development and implementation for use in corporate medical care and community settings.

• **PH 446 - Critical Issues in Health Policy**

(4)

This course examines the process of health care policy making, focusing on current, critical policy issues including cost and access to care, public health and government programs.

• **PH 447 - Vulnerable Populations**

(4)

This course will focus on the health care needs and access to and quality of care received by a variety of vulnerable populations in the United States.

• **PH 455 - Sex Information for Health Education**

(4)

Advanced sex information and education, physiological individuality and response, contraceptives and their health effects, selection and application of content in teaching sex education.

- **PH 456 - Drugs and Health**

(4)

Study of psychoactive drugs; drug-taking behaviors and issues related to dependence; physiological, psychosocial, legal and political aspects of drugs and health; strategies for drug abuse prevention, education and intervention. Fulfills teacher certification requirement in California.

- **PH 457 - Health Education for Elementary School Teachers**

(1)

Information and application of laws, concepts, and principles related to student health and safety. Promotes informed use of health-related information, products, and services. Fulfills teacher certification requirement in California.

- **PH 458 - Advanced Health Education for Teachers**

(4)

Prerequisite: Upper-division standing. Theories, principles, and policies related to student health and safety; analysis and use of health information in K-12 school settings; and strategies for implementing health curricula at school sites.

- **PH 463 - International Health**

(4)

Upper division standing. Review and analysis of historical and modern efforts to solve health problems; survey of global health problems; analysis of the role of international health agencies.

- **PH 464 - Community Health Care Programs**

(4)

Upper division standing. Analysis and review of community health programs and organizations; their structure, function and funding sources developed by professional and voluntary health agencies to address expanding community health needs.

- **PH 468 - Problems in Controlled Substances**

(3)

Prerequisite: GE biological science requirement. Concepts of drug addiction; problems in education, prevention, and treatment.

- **PH 470 - Public Health Administration**

(4)

Prerequisite: Upper division standing. Overview of issues in administration of public health organizations including ethical considerations, leadership, fund-raising, financial management, information management, organizational culture, human resource management, strategic planning, and marketing.

- **PH 471 - General Principles of Environmental Health**

(4)

Upper division standing. General scope of disciplines within environmental health field; routes of entry into those disciplines.

. PH 472 - Data Analysis for Public Health

(4)

Prerequisite: MATH 100 or 102 or 104A. Techniques and methods for public health data analysis including basic statistical techniques; methods of deriving morbidity and mortality rates, life tables, and risk assessment.

. PH 475 - Proseminar: Current Issues in Health

(4)

Prerequisites: PH 150, 480. Examination of current issues and trends in community health; analysis of implications in education and service delivery; development of problem solving techniques.

. PH 476 - Quality Assurance in Health Programs

(4)

Historical development of quality assurance regulations including accreditation, credentials, licenses, regulations, and health education evaluation; emphasis on current regulations including audits, utilization reviews, professional standards, and continuing education in relation to health care delivery programs.

. PH 479 - Program Planning and Evaluation

(4)

Prerequisites: PH 464 and PH 412. Concepts, skills and competencies required for program planning in community health; theories and techniques for evaluation of health education and health promotion programs.

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HELP

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Public Health (Undergraduate)

• PH 480 - Introductory Research Analysis and Technical Writing for Public Health

(4)

Prerequisites: PH 472 or HHS 400 and satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Research concepts and methods applicable to the practice of public health. Emphasis on developing technical writing skills, analyzing and critiquing research reports, and reporting on public health data.

• PH 483 - Hazardous Waste Management Operations and Emergency Response

(4)

Prerequisite: PH 471. Principles and practices of management of hazardous materials and hazardous waste, with emphasis on emergency planning and response.

• PH 490 - Administration of School Health Programs

(4)

Prerequisite: Upper division standing. Examines the mission, goals, and strategies created by federal, state, and local, government as they relate to the administration of school health programs. Focus will be directed at the development of curriculum for health education.

• PH 491 - Special Studies in Health and Safety

(1-4)

Prerequisite: Senior or graduate standing. Intensive study of an area of health or safety; specific area announced in Schedule of Classes. May be repeated to maximum of 16 units as subject matter changes.

• PH 496 - Internship in Public Health

(2-8)

Prerequisite: Consent of student's adviser. Monitored field study experience in approved agencies under the guidance of faculty and field preceptor. Includes individual progress conferences with preceptor and faculty. May be repeated to maximum of 20 units. Graded CR/NC.

- **PH 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: For health studies, BIOL 200AB; for both health and safety studies, instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated to maximum of 6 units.

Public Health (Graduate)

- **PH 526 - Seminar in Health Effects of Environmental Contaminants**

(3)

Discussions and surveys on current critical issues in environmental health sciences.

- **PH 530 - Research Design in Health Science**

(4)

Prerequisite: A four-unit, upper division statistics course. Examination of research methodology within a conceptual framework of health science; utilization of the tools of research.

- **PH 540 - Analysis of Health Care Delivery Systems**

(4)

National and international health care delivery systems, their historical development, objectives, designs, systems components; personnel, facilities, financing, and utilization problems; future patterns in health care delivery systems. Field visits may be required.

- **PH 560 - Administration of Health and Safety Education**

(3)

Organization, content, and evaluation of health and safety education programs; administration and supervision in official and non-official agencies.

- **PH 570 - Health Appraisal and Guidance**

(4)

Developing skills in recognizing health problems; choosing appropriate procedures for screening programs; implementation of appraisal findings through appropriate health guidance techniques.

- **PH 580 - Seminar: Health Science Research**

(4)

Prerequisite: PH 591. Analysis of and research in health science.

- **PH 591 - Advances in Health Education**

(3)

Prerequisite: HS 530. Analysis of selected contemporary problems in health science.

• **PH 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

• **PH 597 - Graduate Research**

(1–6)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated to maximum of 6 units. Graded CR/NC.

• **PH 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 6 units.

• **PH 599 - Thesis or Project**

(1–6)

Prerequisites: Instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

Religious Studies (Undergraduate)

• **RELS 200 - Introduction to Comparative Religions**
(also listed as PHIL 200)

(4)

Methods and concepts in comparative religions; multidisciplinary approaches to the study of ancient and contemporary religious phenomena in literate and illiterate cultures.

GE C3 ; Approved diversity course

• **RELS 311 - Seeking the Holy: Ancient Traditions, Modern Practices**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C or D. Comparative analysis of the ways in which texts, objects, environments, spaces, music and rituals associated with ancient religions shape contemporary human spiritual experiences and social practices.

GE Theme I ; Approved diversity course

• **RELS 325 - Themes of Adult Life in the World's Religions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The role of major world religions in different stages of

adult life of women and men in diverse racial ethnic groups and social classes.

GE Theme F ; Approved diversity course

• **RELS 335 - Gender in the Diversity of World Religions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Beliefs and practices of major world religions concerning gender roles, sexuality, and sexual orientation, and their manifestations in different social classes and racial and ethnic groups.

GE Theme C ; Approved diversity course

• **RELS 380 - Emotion in Religion**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Emotions in world religions; diversity of feeling and expression according to beliefs, ethics, rituals, social organization, gender, class, race, and ethnicity.

GE Theme E ; Approved diversity course

• **RELS 402 - Religion and Society in Medieval Europe**
(also listed as HIST 402)

(4)

History of European religious beliefs and practices from the 3rd to the 15th centuries, emphasizing the diversity within medieval Christianity.

• **RELS 423 - Migration, Identity, and Religion**
(also listed as CHS 423 and LAS 423)

(4)

Examines the role of the Theology of Liberation and Evangelical Christianity in the lives of Mexicans and Latin Americans in their home countries as well as immigrants in the US.

• **RELS 454 - Special Topics in Religious Studies**

(4)

Topics of special interest as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• **RELS 455 - American Religious History**
(also listed as HIST 455)

(4)

Principal religious figures, groups, issues and movements in U.S. history, with an emphasis on their place in the development of American culture.

• **RELS 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: RELS/PHIL 200, instructor consent to act as sponsor. Project selected with instructor before registration; progress meetings held regularly; final report. May be repeated for credit with different topic.

Secondary Education (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

• EDSE 401 - Instructional Strategies in Secondary Teaching

(4)

Prerequisite: Completion of all requirements for formal admission to single subject credential program. Course restricted to preservice candidates to be taken in block one of the program. Theoretical and practical aspects of instructional design along with developing skills and understandings required by prospective and beginning secondary school teachers for effective instructional planning implementation, assessment, classroom management, and evaluation of instructions; analysis of special instructional and curricular problems in secondary schools.

• EDSE 401S - Instructional Strategies in Secondary Teaching - Spanish

(4)

Prerequisites or co-requisite: EDCI 300. Skills and understandings required by prospective and beginning secondary school teachers for effective planning, implementation, and evaluation of bilingual instruction; analysis of special instructional and curricular problems in secondary schools. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

• EDSE 415 - Classroom Management in Secondary Schools

(4)

Prerequisite: Completion of all requirements for formal admission to single subject credential program. Course restricted to preservice candidates to be taken in block one of the program. Identification and resolution of classroom management and control problems in secondary schools; study and application of selected strategies, teacher control techniques, and related research.

• EDSE 421C - Instructional Methods for Secondary School Subjects - Science

(3–4 each)

Prerequisite: Formal admission to single subject teaching credential program, and as specified for individual subjects below, and completion of all courses in Blocks One-Two. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

• EDSE 421I - Instructional Methods for Secondary School Subjects - Industrial Education

(3–4 each)

Prerequisite: TECH 300AB. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

• EDSE 421L - Instructional Methods for Secondary School Subjects - Languages Other than English

(3–4 each)

Prerequisite: Six upper division units in the language. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

• EDSE 421M - Instructional Methods for Secondary School Subjects - Mathematics

(3–4 each)

Prerequisite: Formal admission to single subject teaching credential program, and as specified for individual subjects below, and completion of all courses in Blocks One-Two. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 421N - Instructional Methods for Secondary School Subjects - English and Language Arts**

(3–4 each)

Prerequisite: ENGL 401; 406 or 410; completion of all but two courses in English program for Single Subject credential. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 421P - Instructional Methods for Secondary School Subjects - Physical Education**

(3–4 each)

Prerequisite: Formal admission to single subject teaching credential program, and as specified for individual subjects below, and completion of all courses in Blocks One-Two. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 421R - Instructional Methods for Secondary School Subjects - Art**

(3–4 each)

Prerequisite: Formal admission to single subject teaching credential program, and as specified for individual subjects below, and completion of all courses in Blocks One-Two. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 421S - Instructional Methods for Secondary School Subjects - Social Science**

(3–4 each)

Prerequisite: Formal admission to single subject teaching credential program, and as specified for individual subjects below, and completion of all courses in Blocks One-Two. Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 421U - Instructional Methods for Secondary School Subjects - General Music**

(3–4 each)

Prerequisite: MUS 423 Instructional strategies and curricular themes in specific subjects taught in secondary schools. Single subject teaching credential candidates must complete one methods course to meet credential requirements.

- **EDSE 423 - Literacy in Middle and High School Content Classrooms**

(4)

Prerequisite: EDSE 401, 415, 442A, EDFN 440. Integrating literacy development with learning in middle and high school content classrooms. Understanding and assessing literacy processes; vocabulary development; strategic literacy instruction; literacy development for all learners. Tutorial field experience.

- **EDSE 423S - Teaching Reading in Secondary Schools - Spanish**

(4)

Prerequisites: EDSE 401S, 415, 445A, EDFN 440. Reading in secondary school content areas; reading as an instructional tool in bilingual secondary classes; strategies to improve reading at secondary level; provision for field experience. Includes observation and participation in a field setting. This course is offered in English/Spanish combination. Bilingual authorization standards are also emphasized.

- **EDSE 430 - Using ESL Techniques in the Content Areas**

(4)

Prerequisites: EDFN 440, EDSE 401, 415, 442A. ESL and sheltered English/SDAIE instructional strategies that increase English skills and comprehensibility of core curricular subject matter for second language learners.

- **EDSE 442C - Directed Teaching in Secondary Schools**

(7)

Prerequisites: Enrollment in the undergraduate Natural Science major with an option in Biology, Chemistry, Geoscience or Physics/teacher preparation for the Single Subject (Better Educated Science Teacher) program. Formal admission into the Charter College of Education credential program. Completion of all other program coursework.

- **EDSE 445A - Proseminar: Learning Environments and Instruction in Secondary Schools**

(4)

Corequisites or prerequisites: EDCI 300, EDFN 413. Organization of learning environments and instructional practices to support student learning with the socio-cultural context of urban secondary classrooms. Observation and participation in secondary schools.

- **EDSE 445B - Proseminar: Inquiry into Curriculum, Teaching, and School Culture**

(4)

Prerequisites: EDFN 440, EDSE 401, 415, 423, 430, 445A. Corequisite: EDSE 421. Understanding of dimensions of school culture in curriculum and instruction. Using school culture information to develop and deliver curriculum and assessment. Observation and participation in secondary schools.

- **EDSE 445C - Directed Teaching in Secondary Schools**

(10)

Prerequisites: Formal admission to the credential program; completion of credential courses in Blocks One through Three; completion of subject matter preparation program and recommendation of the subject department. Corequisite: EDSE 445D. Four periods per day of directed teaching in an assigned school. CR/NC only.

- **EDSE 445D - Proseminar: Assessment of Teaching Performance**

(4)

Prerequisites: EDFN 440, EDSE 401, 415, 421, 430, 423, 445A, 445B, EDSP 400. Corequisite: EDSE 445C or 489. Seminar to accompany directed teaching to provide candidates opportunities for self and peer reflection, professional growth, and summative program portfolio assessment.

- **EDSE 489 - Demonstration of Instructional Competencies**

(10)

Prerequisites: Formal admission to the credential program; completion of credential courses in Blocks One through Three; completion of the subject matter competency. Corequisite: EDSE 442E. Demonstration of teaching competencies for full-time secondary teachers. Must include two periods in subject area of credential. Meets California Single Subject teaching credential requirement for directed teaching. Four periods

per day of directed teaching at an approved school site. May be repeated for credit with division approval. Graded CR/NC.

• **EDSE 490 - Problems in Secondary Education**

(2–5)

Prerequisite: Instructor consent. Investigation of unique problems in secondary education. Specific subject announced in Schedule of Classes. May be repeated for credit as subject matter changes.

• **EDSE 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Secondary Education (Graduate)

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

• **EDSE 500 - Introductory Seminar: Reflections on Teaching**

(4)

Inquiry into theories and principles guiding classroom practice in middle and secondary schools. Addresses instructional problems and issues as well as methods for their investigation and solution.

• **EDSE 590 - Teaching in Multicultural Middle and Secondary Classrooms**

(4)

Prerequisites: Completion of all requirements for formal admission to the Los Angeles Urban Teacher Residency Credential program and completion of Residency Block II of the program. Course examines research-based strategies for designing, implementing and evaluating culturally appropriate and student-centered curriculum and instruction in multicultural, urban middle and secondary classrooms.

• **EDSE 594 - Selected Studies in Secondary Education**

(1–4)

Prerequisite: Consent of division chair. Intensive study of designated problems in secondary education. May be repeated for a maximum of 12 units for credit as subject matter changes.

• **EDSE 596 - Comprehensive Examination**

(3,4)

The comprehensive examination for the Master of Arts degree in Education with an option in Middle and Secondary Curriculum and Instruction will require candidates to engage in extended inquiry by completing an interlocking set of structured activities such as field research, teacher research, literature reviews, grant writing, and program development. Candidates electing to take these comprehensive exams will be monitored and guided over two quarters while they are enrolled in EDSE 596. Graded CR/NR

• **EDSE 597 - Graduate Research**

(1–4)

Prerequisites: EDFN 500, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under

guidance of faculty. May be repeated to a maximum of 12 units for credit. Graded CR/NC.

- **EDSE 598 - Graduate Directed Study**

(1–4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

Social Work (Undergraduate)

PSY 150 or SOC 201 or 202, normally prerequisite to all upper division SW courses, may be waived only with instructor consent.

Some 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser:

- **SW 301 - Writing for Social Work**

(4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Reasoning and writing skills for comprehending and communicating information in social work. Minimum C grade required for passing.

- **SW 355 - Strategies for Preventing and Intervening in Family Violence and Abuse (crosslisted as NURS 355)**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Major theories used to explain family violence; emphasis on preventing abuse and intervening with victims across the age span; social policy and legal issues.

GE Theme B

- **SW 362 - From Institutional Racism to Cultural Competency**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Theoretical and empirical data regarding institutional racism; increase understanding of diversity and cultural competency.

GE Theme H ; Approved diversity course

- **SW 370 - Field of Social Work**

(4)

Prerequisites: PSY 150 or SOC 201 or 202 and HHS 400 or EDFN 452 or SOC 210A or ECON/MATH 109 or an equivalent elementary statistics course. Overview of social work profession; including contemporary practices and policies of social welfare agencies. Minimum C grade required for passing.

- **SW 371 B - Human Behavior and the Social Environment: Late Adolescence Through Old Age**

(4)

Prerequisite: SW 370. Application of social work practice principles, values, knowledge, and skills in assessment of human behavior within context of social environment from late adolescence through old age.

- **SW 371A - Human Behavior and the Social Environment: Prenatal Through Early Adolescence**

(4)

..... Prerequisite: SW 370. Application of social work practice principles, values, knowledge, and skills in assessment of human behavior within context of social environment from birth to early adolescence.

- **SW 372 - Social Work Practice I: Communication and Interviewing Skills**

(4)

Prerequisite: SW 370. Examines and applies communication theory and interviewing skills in working with individuals, families, small groups, and communities. Minimum C grade required for passing.

- **SW 391 - Social Work Research Methods**

(4)

Prerequisite: HHS 400 or SOC 210A or EDFN 452 or ECON/MATH 109. Scientific, analytic approach to knowledge building and practice in social work; experimental, quasi-experimental, and single subject research designs; sampling, survey methods, case studies, exploratory-descriptive studies, and evaluation research.

- **SW 411 - Computer Applications in Social Work**

(4)

Prerequisite: SW 370. Computers in field of social work and human service programs; includes use of major "applications" programs that have specific relevance to field of social work.

- **SW 450 - Crosscultural Practice with Aging Populations**

(4)

Prerequisite: Upper division standing. Ethnic factors in aging; ethnic specific and comparative analysis of ethnicity as it influences sociocultural context of older persons, care giving, and service delivery and utilization.

- **SW 454 - Selected Topics in Social Work**

(1-6)

Current topics of special interest in social work, as announced in Schedule of Classes. May be repeated for credit.

- **SW 456 - Multidisciplinary Teams, Child Maltreatment, and Family Violence**

(4)

Prerequisite: PSY 150 or SOC 201. Personal and professional responsibility in reporting, preventing, and treating child maltreatment; a multidisciplinary team approach to problems of child maltreatment and family violence.

- **SW 461 - Social Work Practice in Minority Communities**

(4)

Prerequisite: SW 370. Social work practice and its relationship to minority group communities; innovative methods of delivery of services; casework approaches, racism, role of social worker.

- **SW 463 - Women's Issues in Social Welfare**

(4)

Prerequisite: SW 370. Women's issues within social work practice areas; analysis of social welfare response to women's special concerns; social policy implications for future directions.

- **SW 465 - Programs and Policies Related to the Elderly**

(4)

Prerequisite: Upper division standing. Policies, programs, and service delivery systems related to the elderly; descriptive and normative analysis of social problems related to aging with emphasis on ethnic minorities.

- **SW 466 - Case Management with Older Adults**

(4)

Prerequisite: Upper division standing. Examination of frameworks and models lined to quality case management programs and services, with the underserved, culturally diverse, frail elderly; case finding, assessment, goal setting to promote community-based care.

- **SW 474 - Social Work Practice II: Working with Individuals and Families**

(4)

Prerequisites: SW370, SW 372. Generalist social work practice methods: engagement, data collection, assessment, intervention case management, evaluation and termination. Covers ethnic sensitive social work practice. Minimum C grade required for passing.

- **SW 475 - Social Work Practice III: Working with Groups**

(4)

Prerequisites: SW 370, SW 372. Study of human behavior in groups; use of groups to accomplish individual, family, organizational, and/or community goals. Minimum C grade required for passing.

- **SW 476 - Child Welfare**

(4)

Services to families, children, and youth; the network of preventive and supportive services; child neglect and abuse; children and the legal system; foster care, institutional care, group homes, and adoptions.

- **SW 478 - Social Welfare Policy and Social Services**

(4)

Prerequisite: SW 370. Identifying, formulating, implementing, and evaluating social welfare policy options. Design and implementation of social service delivery systems. Minimum C grade required for passing.

- **SW 482 - Social Work Practice IV: Community Organization**

(4)

Prerequisites: SW 370, SW 372. Applies stages of the generalist social work method to community organizing, community analysis,

dynamics of social power, and formal organizations. Minimum C grade required for passing

• **SW 485 - The Homeless in Society**

(4)

Prerequisite: SOC 201 or 202. The homeless and homelessness including cultural, health/mental health, sociopolitical, economic, legal issues, consequences; policy, programs, service delivery responses and options. Lecture 3 hours, laboratory 3 hours.

• **SW 486 - Probation and Parole**
(also listed as SOC 486)

(4)

Prerequisite: SOC 480 or 482. History, philosophy, legal bases, and procedures governing investigation, treatment, and supervision of adjudged juvenile offenders and adult violators placed on probation and parole.

• **SW 490 - Latino Mental Health**

(4)

Prerequisite: SW 474 or other upper division course in mental health or counseling. Psychosociocultural aspects of mental health problems and issues within Latino community; factors affecting mental/emotional well-being, the design and delivery of culturally based services, and implications for practice and research. Service in an agency serving Latino clients is required. This course requires service learning.

• **SW 495 - Directed Field Experience**

(4)

Prerequisites: SW 301, SW 370, SW 371A, 371 B, SW 372, Pass WPE and complete criminal clearance. Corequisite: SW 496. Student internship social agency; supervised activities in application of theory and skills acquired in foundation courses. Must be repeated to total 12 units. Graded CR/NC. Students enter fieldwork in fall or winter quarters and must complete three consecutive quarters. If students receive a "NC" in any quarter, they may repeat the entire field practicum only once at another agency.

• **SW 496 - Integrative Seminar**

(1)

Prerequisites: SW 301, SW 370, SW 371A, SW 371B, SW 372 Corequisite: SW 495. Examination of the relationship between social work theory and practice to provide integration of academic and directed social work field experiences. Must be repeated consecutively to total of 3 units as a corequisite to fieldwork (SW495). Minimum C grade required for passing. If a student is required to repeat the fieldwork, they must repeat seminar as a corequisite for 3 additional units; however, if student passes fieldwork but receives less than minimum grade in seminar, course can be repeated only to 4 total units.

• **SW 498 - Cooperative Education**

This cooperative education course may be repeated up to 16 units.

• **SW 499 - Undergraduate Directed Study**

(1-4)

Prerequisites: Senior standing, 2.75 overall grade point average, consent of a faculty sponsor, approval of proposed project prior to registration, ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report.

Social Work (Graduate)

Some 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser:

Classified graduate standing is required for admission to all 500-level courses.

• SW 510A - Human Behavior and the Social Environment I

(4)

Prerequisite: Admission to the MSW program. Human growth and development from birth through adolescence including views based on biological, psychological, cultural, interpersonal, and social structural assumptions; applications to social work.

• SW 510B - Human Behavior and the Social Environment II

(4)

Prerequisite: SW 510A. Human growth and development from middle age through old age and death, including biopsychosocial, cultural, interpersonal, and structural assumptions.

• SW 510C - Human Behavior and the Social Environment III

(4)

Prerequisite: SW 510B. Review and critique of theories of human growth and development from a crosscultural perspective; emphasis on micro and mezzo theories for relevance to the biopsychosocial needs and problems of ethnic minority client systems.

• SW 520A - Parameters of Practice

(4)

Prerequisite: Admission to the MSW program. Historical development and theoretical foundations for generalist social practice; value base, principles and method for cross-cultural service delivery.

• SW 520B - Micro Practice

(4)

Prerequisite: SW 520A. Repertoire of practical skills derived from variety of theoretical frameworks for selective application for professional social work practice with diverse, micro-level client systems.

• SW 530A - Social Welfare History and Introduction to Macro Practice

(4)

Prerequisite: Admission to the MSW Program. Social Welfare policy; examination of history, philosophy, ethics, function and structure of the social welfare institution and the social work profession within sociopolitical, economic and cultural systems.

• SW 530B - Social Welfare Policy Analysis

(4)

Prerequisite: SW 530A. Programs of social insurance and social assistance, income transfer and income maintenance; analyses of issues with regard to entitlements, coverage and eligibility.

- **SW 530C - Community Organizing**

(4)

Prerequisite: SW 520B. Social work interventions with natural and formed groups, understanding for community development, especially in low-income minority communities; analyses of community organizations and their effect upon delivery of social services.

- **SW 540 - Social Welfare Research and Statistics**

(4)

Prerequisites: Admission to the MSW program; a course in statistics. Research designs and methodologies in social work; problem formulation, sampling techniques, instrument construction, evaluation research.

- **SW 549A - Field Practicum**

(3)

Prerequisite: Admission to the MSW program. Supervised field placement for advanced generalist practice with individuals, families, groups and communities. Graded CR/NC.

- **SW 549B - Field Practicum**

(3)

Prerequisite: Admission to the MSW program. Supervised field placement for advanced generalist practice with individuals, families, groups and communities. Graded CR/NC.

- **SW 549C - Field Practicum**

(3)

Prerequisite: Admission to the MSW program. Supervised field placement for advanced generalist practice with individuals, families, groups and communities. Graded CR/NC.

- **SW 550 - Advanced Social Welfare Research**

(3)

Prerequisite: SW 540. Advanced research designs and methodologies in social work in preparation for the Master's Thesis. Research questions and hypotheses, protection of human subjects, sampling, instrument construction, data collection and data analysis.

- **SW 551 - Advanced Practice I: Children, Youth, Women and Families**

(4)

Prerequisite: Completion of SW 549C. Advanced level of theory and practice focusing upon prevention, crisis intervention and short-term treatment with children, youth, women, and families.

- **SW 552 - Advanced Practice I: Aging and Families**

(4)

Prerequisite: Completion of Foundation Year. Advanced level of practice addressing theories of aging, health and medical needs of the elderly; critical care issues affecting this population.

• SW 553 - Advanced Practice II: Diversity Perspectives Over the Life Course

(4)

Prerequisite: SW 551. Theory and practice with ethnically, racially, religiously diverse populations utilizing a multidimensional cross-cultural framework and case materials to analyze treatment issues and empowerment strategies for children, youth, women and families.

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Social Work (Graduate)

Some 400-level courses may be applied toward master's degree requirements, subject to limits established by the school and approval of the graduate adviser:

Classified graduate standing is required for admission to all 500-level courses.

• **SW 556 - Advanced Practice I: Forensic Casework**

(4)

Prerequisite: SW 549 and instructor consent. Examination of theoretical and practice foundations for social casework with adult/juvenile forensic clients; overview of forensic social work practice.

• **SW 558 - Advanced Practice III: Capstone Seminar: Children, Youth, Women and Families**

(4)

Prerequisite: SW 553. Interventions based on gender, race, age and class factors in service delivery to children, youth, women and their families; prevention, funding, grantsmanship and program evaluations. Special emphasis on disadvantaged communities.

• **SW 559 - Advanced Practice III: Capstone Seminar: Aging & Families**

(4)

Prerequisite: SW 553. Interventions based on gender, race, age and class factors in service delivery to older adults and their families; prevention, funding, grantsmanship and program evaluations. Special emphasis on disadvantaged communities.

• **SW 560 - Advanced Practice III: Capstone Seminar: Forensic Social Work.**

(4)

Prerequisite SW 556. Interventions based on gender, race, age and class factors in service delivery to clients and their families involved in the criminal justice system, with special emphasis on disadvantaged communities.

• **SW 571 - Administration of Social Service Agencies**

(4)

Prerequisite: SW 530C. Issues in management and organizational behavior within human service systems; leadership; decision making; conflict resolution; program and staff development; fiscal management; working with boards and volunteers.

• **SW 575 - Policy and Services/Applications: Children, Youth, Women and Families**

(4)

Prerequisite: SW 571. Critical analysis of social systems, policies and programs designed to provide human services to culturally diverse individuals, families and groups.

• **SW 576 - Policy and Service/Applications: Aging and Families**

(4)

Prerequisite: SW 571. Analysis of federal, state and local policies including Medicare and Medi-Cal; emphasis on financing and budgeting of program; legal mandate for various social work interventions.

• **SW 577 - Policy and Services/Applications: Forensic Social Work.**

(4)

Prerequisite: SW 571. Critical analysis of current problems and policies in forensic social work, and community and institutional issues that impact culturally diverse individuals, families, and groups involved with the criminal justice system.

• **SW 582 - Key Issues in DSM-IV: Focus on Forensic Mental Health**

(2)

Prerequisites: 520B and 530C. Issues of assessment, including mental status and diagnosis, for advanced social work practice. Emphasis on practice with forensic clients.

• **SW 584 - Trauma, Substance Abuse and Violence**

(2)

Prerequisites: SW 520A and 520B. Examines advanced social work practice interventions with mental health and forensic clients impacted by trauma, physical and sexual violence, and substance abuse.

• **SW 585 - Policy and Practice In Public Child Welfare**

(2)

Prerequisites: 520E and 530C. Contemporary practice in California's public child welfare systems in the context of current policy and administrative issues.

• **SW 586 - Grief and Loss in Later Life**

(2)

Examination of historical, cultural, societal, and personal perspectives on grief and loss in contemporary society and, in particular, how it impacts older adults.

- **SW 589 - Selected Topics in Social Work**

(1–6)

Current topics of special interest in social work, announced in the Schedule of Classes. May be repeated for credit up to a total of 4 units.

- **SW 591A - Field Practicum**

(4)

Prerequisite: Completion of Foundation year. Advanced case and group management and community planning responsibilities in a supervised field setting. Graded CR/NC.

- **SW 591B - Field Practicum**

(4)

Prerequisite: Completion of Foundation year. Advanced case and group management and community planning responsibilities in a supervised field setting. Graded CR/NC.

- **SW 591C - Field Practicum**

(4)

Prerequisite: Completion of Foundation year. Advanced case and group management and community planning responsibilities in a supervised field setting. Graded CR/NC.

- **SW 598 - Graduate Directed Study**

(1–4)

Prerequisite: SW 549 and Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. Repeatable for up to 12 units.

- **SW 599A - Thesis or Research Project I**

(3)

Prerequisite: SW 540. Formulation and design of a thesis or research project incorporating quantitative and/or qualitative data obtained from the field practicum concentration. Graded CR/NC.

- **SW 599B - Thesis or Research Project II**

(3)

Prerequisite: SW 599A. Completion of the thesis or research project focusing upon the presentation of data and the conclusion, implication, and recommendations for individual, social or institutional change derived from the findings. Graded CR/NC.

Sociology (Undergraduate)

SOC 201 normally is prerequisite to all upper division courses in sociology and may be waived only with instructor consent.

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

- **SOC 101 - Social Problems**

(4)

Methods that social institutions and interest groups use to define "social problems," including poverty, substance abuse, delinquency, racism, sexism, crises in education and health care, and urban/environmental issues; policy implications.

*C-ID SOCI 115

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

• **SOC 120 - Intimate Relationships in Our Diverse Society** (also listed as CHDV 120)

(4)

Principles of interaction in intimate relationships in our diverse society. Understanding/valuing diversity and similarity (gender, ethnicity, class, etc.) in achieving intimacy. Developing knowledge/skills for dealing with relationship issues. Some sections may be offered online.

*C-ID SOCI 130

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE E ; Approved diversity course

• **SOC 201 - Principles of Sociology**

(4)

Social institutions and group behavior; social order and change. Issues include hegemony, pluralism, distribution of privilege and power, sources of cooperation and conflict, deviance and social control.

*C-ID SOCI 110

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.*

GE D

• **SOC 202 - Society and Individual Development**

(4)

Service Learning Course. Some sections to be offered online with required community service. Social, psychological, and physiological processes affecting individual development throughout the life span. Identity issues, family, socialization, and social institutions, as interconnected with gender, age, ethnicity/race, economics, and diverse populations.

GE E ; Approved diversity course

• **SOC 210 - Elementary Statistics**

(4)

Recommended prerequisite: Basic college mathematics course. Introduction to social statistics, covering univariate, descriptive statistics, level of measurement, hypothesis testing for mean differences, using statistical and data management software, tables, AND charts, summary measures, regression and correlation, and statistical inference, sampling, predictive models, analysis of variance, non parametric and parametric tests, and simple multivariate analysis. Lecture 2 hours, laboratory 2 hours.

*C-ID SOCI 125

**The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved*

community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

- **SOC 263 - Asian-American Experience**

(4)

Comparative experiences of the Chinese, Japanese, Korean, Filipino, Pacific Islander, Southeast Asian refugee, and other Asian groups in the United States. Immigration, adaptation, discrimination, identity, alienation, stratification, and other contemporary issues.

GE D ; Approved diversity course

- **SOC 300 - Cultural Emotions**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Human emotions as organized within social relationships and institutions of family, religion, education, government, and economy; cultural norms and vocabulary; ethnic, sex, and social class diversity in feeling and expression.

GE Theme E ; Approved diversity course

- **SOC 301 - Writing for Sociology**

(4)

Prerequisite: ENGL 102*, satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Reasoning and writing skills for comprehending and communicating information in sociology. *Students subject to catalogs earlier than 1993-95 satisfy this prerequisite with ENGL 101 or 190.

- **SOC 310 - Intermediate Statistics**

(4)

Prerequisite: SOC210. Intermediate level social statistics, covering causal hypothesis, hypothesis testing, and bivariate associational statistics such as cross-table analysis, gamma, pearson correlation, and Analysis of Variance(ANOVA).

- **SOC 322 - Socialization: Childhood and Adolescence**

(4)

Social-psychological approaches to socialization, from early childhood to adolescence. Emphasis on basic issues of social control and change. Topics are correlated with the California standards for the Multiple Subject Credential.

- **SOC 323 - Socialization: Maturity and Aging**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Emphasizes social-psychological approaches to socialization, and development. Addresses cultural variation as adulthood and aging change family and work relationships. Addresses issues of social control and change in a diverse world. Some sections of this course require service learning.

GE Theme F ; Approved diversity course

- **SOC 330 - Social Issues in the Urban Setting**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Social issues in urban setting; ethnic, cultural, and class diversity; cross-cultural comparisons; population and environmental concerns; and social planning.

GE Theme D

• **SOC 331 - The Dynamics of Poverty**

(4)

Service Learning Course Some sections to be offered online with required community service. Extent and characteristics of poverty in the United States. Analysis of the social construction of poverty, including theoretical background and myths. Socio-structural responses, change models, and community action are discussed. This course requires service learning. Student placements arranged through EPIC with community agencies are part of the course requirements.

• **SOC 341 - Sociology of Gender Roles**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of: research on changing roles of men and women across social institutions; social movements for equality; theories of gender role differentiation; historical, cross-cultural, and racial/ethnic/class variations.

GE Theme C ; Approved diversity course

• **SOC 348 - Class, Race/Ethnicity, and Gender**
(also listed as AAAS 348, CHS 348, and PAS 348)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of social class, sex/gender, and ethnicity/race as bases of inequality and the processes by which inequalities are maintained or reproduced. Some course sections may require service learning. Some course sections may be offered online.

GE Theme H ; Approved diversity course

• **SOC 383 - Violence in American Society**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Forms of violence in American society (e.g., criminal, domestic, revolutionary, official, sexual) examined through a critical review of social scientific literature; assessment of causes, consequences, and possibilities for control.

GE Theme B

• **SOC 390 - Methods of Social Research**

(4)

Prerequisite: SOC 210AB. Application of scientific method to sociological data; research design, data collection, elementary analysis procedures; survey and experimental designs, measurement, scale, and index construction; and prediction models. With instructor consent, one unit of SOC 499 may be taken concurrently.

• **SOC 398 - Cooperative Education**
(see UNIV 398)

(1-4)

Cooperative Education

• **SOC 405 - Sociology Internships and Service Learning**

(4)

Students link sociological concepts, empirical studies, public and applied sociology, and field research with internships and service learning in organizations outside CSULA, writing papers on service projects and sociological research. Lecture 2 hours, field work 4 hours. May be repeated once for credit. Graded CR/NC.

• **SOC 410 - Advanced Statistics**

(4)

Prerequisites: SOC 210, SOC 310 and SOC 490, must have been completed with a grade of B or better and admission to MA program or consent of instructor. Specialized treatment of probability, prediction and correlation, analysis of variance and covariance, OLS regression analysis and regression models for limited dependent variables.

Repeatability: In order to satisfy the SOC 590 and SOC 490 prerequisite requirements of a grade of B or better in this course, students may repeat SOC 410 if they fail to earn the required grade of B or better. Students may only repeat this course one time. The repeated course will not increase the unit-count toward graduation, nor will the repeated course grade replace the earlier grade earned in GPA calculations.

• **SOC 412 - Classical Sociological Theory**

(4)

Historical development of sociological theory with special reference to its European origins; e.g., Comte, Saint-Simon, Marx, Spencer, Durkheim, Simmel, and Weber.

• **SOC 414 - Contemporary Sociological Theory**

(4)

Functionalism, conflict sociology, interactionism, critical-radical sociologies, systems analysis, and phenomenological perspective. Some course sections offer a service learning option.

• **SOC 415 - Political Sociology**

(4)

Prerequisite: POLS 150 or SOC 201. Social factors underlying democracy and totalitarianism, social movements and revolutions, conflict and conflict resolution, voting behavior, and political socialization.

• **SOC 416 - Feminist Theories and Contemporary Society** (also listed as WOMN 416)

(4)

Examination of the various feminist theories, all of which focus on some aspect of gender inequality. Implications of each theory and its applications to contemporary society are also discussed. Some course sections to be offered online.

• **SOC 418 - Crowd Behavior and Social Movements**

(4)

Analysis of crowd types, formation, and dynamics, including mobs, riots, panics, mass hysteria, rumors, fads, and fashion. Development, tactics, ideologies, and effects of social movements, cults, and rebellions.

• **SOC 420 - Small Groups**

(4)

Small group processes in industry, the family, schools, peer and colleague groups; reference-group behavior, relation to larger social systems, group structure and communication; development of research techniques.

• **SOC 421 - Social Sources of Human Sexuality**

(4)

Effects of social environment on emergence, justification, and maintenance of sexual attitudes and behavior; social factors influencing sexual behavior; changing sociosexual mores and behavioral patterns, and emerging sexual life styles.

• **SOC 422 - Social Psychology**

(4)

Inquiry into social-psychological dimensions of group behavior, emphasizing interactive processes involved in communication, group behavior, perception, attitude formation, motivation, socialization, and evolution of self-concept.

• **SOC 423 - Political Sociology of Globalization and Resistance**
(also listed as POLS 423)

(4)

Political and sociological analysis of globalization as a contested process; emergence of global societies and movements; social forces advancing global neo-liberalism; resistance by workers', indigenous, women's, and environmental transnational movements.

• **SOC 425 - Medical Sociology**

(4)

Role of the hospital and socialization process on professional development of personnel in the healing professions; social epidemiology of physical and mental disorders.

• **SOC 426 - Deviant Behavior**

(4)

Basic theoretical orientations to social and personal disorganization resulting from role conflict, social conflict, normlessness, or alienation; individual and social deviance related to group processes and structures.

• **SOC 427 - Society and Mental Illness**

(4)

Lay and professional ideas about mental illness in historical and cross-cultural perspective; organizational treatment of the mentally ill; identity, stigma, and adaptations.

• **SOC 428 - Self and Identity**

(4)

The development and maintenance of the sense of self or identity among children and adults, particularly emphasizing how understanding theories of the self contributes to community service. Service learning required.

• **SOC 430 - Urban Sociology**

(4)

Urban community and urbanization as contemporary social process; consideration of urban areas, institutions, values, and problems; social and demographic characteristics, urban and suburban change and planning.

• **SOC 433 - Bioethics and Sociology**

(4)

Sociological analysis of ethical and legal issues concerning health, including dilemmas in health care delivery, reproduction, the beginning and end of life, institutional ethics committees, genetic testing, and new medical technologies.

• **SOC 435 - Asian Societies**

(4)

Comparative analysis and exploration of transformations in Asian societies, through historical and contemporary examination of institutions, education, development, urbanization, and deviance/crime.

• **SOC 438 - Sociology of Sport**

(4)

Analysis of sport as a social institution and its interrelationship with other, dominant American social institutions and the process of globalization. Examining social diversity, stratification, and social construction in sports.

• **SOC 439 - Aging and Family Life**

(4)

An overview of theory and research on family relations in adulthood and later life from a sociological perspective; examines how diversity (race/ethnicity, gender, class, and sexual orientation) affects older families.

• **SOC 440 - Marriage and the Family**

(4)

The family as a social institution; historical and cross-cultural perspectives, social change as it affects marriage and family life. Analysis of American courtship and marriage patterns, psychodynamics of family life.

• **SOC 441 - Researching Gender in Social Institutions**

(4)

Advanced sociological analysis of sex role differences; conducting research on differential treatment in social institutions; application of theoretical perspectives on gender.

• **SOC 442 - Social Change**

(4)

Classical and contemporary theories of sources and consequences of social change; revolutions and alternative routes to modern world; issues in historical sociology; change and social contexts of creative achievements in arts and sciences.

- **SOC 443 - Diversity in Alternative Families**

(4)

Cross-cultural examination of family diversity: Interracial/ ethnic relationships; minority and low-income single-parent households; same-sex and step-families; international/ethnic adoption; socio-legal implications of reproductive technologies.

- **SOC 444 - Sociology of Popular Culture**

(4)

Art, film, literature, music, and television are examined in terms of social roles, social processes, context, and the construction of meaning. Popular culture is studied as reflecting, reinforcing, or challenging norms.

- **SOC 445 - Sociology of Religion**

(4)

Social bases of religion, religious institutions, and their modern organizational life; comparative analysis and theories of religious behavior; religious institutions, their representatives, religious conflict, and public law.

- **SOC 446 - Sociology of Business Organizations**

(4)

The sociological understanding of control in different technical, structural, and commercial settings. Corporate culture, work subcultures, role constructions, and network processes are emphasized. Case studies are used.

- **SOC 447 - Work and the Workplace**

(4)

Analysis of the social world of work: occupational trends and mobility, education and skills, meaningful work, alienation and stress, inequality and discrimination, globalization; study of selected occupations, professions, and workplaces.

- **SOC 448 - Social Class and Inequality**

(4)

Examination of sociological theory and research bearing on social stratification; social differentiation: class position, class interests, correlates of social class; trends in occupational mobility; comparison of stratification systems.

- **SOC 449 - Professionals in Society**

(4)

Lawyers, doctors, and other professionals and their relationships with clients, managers, and unions; professional ethics, white-collar crime, and whistle blowing; stratification by class, race, and gender; technology and professional control.

- **SOC 450 - Sociology of Aging**

(4)

Aging as a social process; emphasis on sociological theories of aging and social problems of the aged; nature of aging process, work, retirement, family relationships, housing, income maintenance; societal response to aged.

- **SOC 452 - Life Span Transitions: The Retirement Years**

(4)

Critical evaluation of issues involved in planning for retirement; changing place of work and retirement in value system; anticipatory behavior, patterns and modes of adjustment, maladjustment; proposals and issues.

- **SOC 453 - Social Aspects of Death and Bereavement**

(4)

Concepts and theories of dying; meaning of death and its implications for dying persons, survivors, and professionals who attend them.

- **SOC 454 - Selected Topics in Sociology**

(1-6)

Current topics of special interest in sociology, as announced in Schedule of Classes. May be repeated for credit.

- **SOC 460 - Race and Ethnic Relations**

(4)

Structure and change of minorities in society; theories and research: historical, contemporary, and comparative; processes of adjustment: patterns of immigration, prejudice, discrimination, assimilation, pluralism, conflict, and social movements.

- **SOC 479 - Drug Use and Public Policy**

(4)

Theoretical analysis, historical trends, and current use of recreational psychoactive drugs. Crime and economics of the drug trade. Macro-social preventions, legal responses, and alternative solutions to drug use problems.

- **SOC 480 - Criminology**

(4)

Criminal law, crime, and deviance. Social and psychological factors in criminal behavior, criminal law, and criminal justice; prevention and control; trends in theory and correctional procedures.

- **SOC 481 - Policing America**

(4)

Social role of American police. Historical, political, and social contexts of policing. Selected issues; the controversial police mandate, use-of-force/accountability, community policing, the future of policing in America.

- **SOC 483 - Sociology of Human Rights**

(4)

Social, historical, political, legal, and cultural developments in the Sociology of Human Rights field; the role of moral boundaries in governance, politics, and the law in the exercise of power.

• **SOC 485 - Conflict and Domestic Violence**

(4)

Sociological aspects of domestic violence in families (e.g., child, spouse, and elder abuse) examined in relation to ethnic, social, cultural, historical, economic, and political factors that affect individual behavior.

• **SOC 487 - Environmental Policy, Law, and Society**

(4)

Sociological aspects of environmental policy and law; relationship between societies and environmental problems regarding air and water quality, endangered species, toxic chemicals, energy, and natural resources; policy tools and analysis.

• **SOC 488 - Sociology of Law**

(4)

Sociological perspectives on the relationship between law, culture, politics, the economy, and community; creation of law and its impact on class, race, and gender relationships; impact of globalization on law.

• **SOC 490 - Quantitative Research Methods in Sociology**

(4)

Prerequisite: SOC 390 and admission to MA program or consent of instructor. Advanced research techniques used for generating quantitative data in sociology, including hypothesis construction, measurement and causal validity, sampling, survey methods, experiments, comparative historical analysis and scaling.

Repeatability: In order to satisfy the SOC 590 prerequisite requirement of a grade of B or better in this course, students may repeat SOC 490 if they fail to earn the required grade of B or better. Students may only repeat this course one time. The repeated course will not increase the unit-count toward graduation, nor will the repeated course grade replace the earlier grade earned in GPA calculations.

• **SOC 491 - Qualitative Research Methods in Sociology**

(4)

Prerequisite: SOC 390 and admission to ma program or consent of instructor. Qualitative research techniques in sociological research: research in field settings, problems of participant observation and interviewing, document analysis, typology construction, qualitative data interpretation and presentation.

Repeatability: In order to satisfy the SOC 590 prerequisite requirement of a grade of B or better in this course, students may repeat SOC 491 if they fail to earn the required grade of B or better. Students may only repeat this course one time. The repeated course will not increase the unit-count toward graduation, nor will the repeated course grade replace the earlier grade earned in GPA calculations.

• **SOC 493 - Sociology Honors Thesis**

4

Prerequisites: Senior class standing, minimum of 3.5 grade point average, and completion of specific courses required for the major (SOC 201, SOC 390, SOC 412, at least six upper division courses in the sociology major); instructor consent. Students develop an appropriate research question or hypothesis and conduct an independent project under the supervision of a faculty member in the sociology department and write a senior honors thesis.

- **SOC 495 - Senior Capstone Seminar**

(4)

Prerequisite: Senior Sociology standing. Students will critically reflect upon, integrate, and apply the concepts learned in previous sociology courses. Involves in-class discussion of the discipline, completion of individual papers, and individual oral presentations.

- **SOC 496 - Law and Society Honors Thesis**

(4)

Prerequisites: senior standing and admission to Law and Society Option Honors Program. Independent sociological research in law and society; regular consultations with faculty research adviser and written thesis required. Graded CR/NC. May be repeated once for credit.

- **SOC 497 - Proseminar: Introduction to Graduate Studies, the Discipline, and the Profession**

(4)

Prerequisite: Admission to MA program or consent of instructor. Must be completed with a grade of B or above prior to taking SOC 512 and SOC 514. Survey of institutional history of sociology; current state of the field; careers, professional associations; competing conceptions of sociology.

Repeatability: in order to satisfy the SOC 512 and 514 prerequisite requirements of a grade of B or better in this course, students may repeat SOC 497 if they fail to earn the required grade of B or better. Students may only repeat this course one time. The repeated course will not increase the unit-count toward graduation, nor will the repeated course grade replace the earlier grade earned in GPA calculations.

- **SOC 498 - Cooperative Education**
(see UNIV 498)

(1–4)

Cooperative Education

- **SOC 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: Senior standing, 2.75 overall grade point average, consent of a faculty sponsor, approval of proposed project prior to registration, and ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. May be repeated for credit.

Sociology (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

- **SOC 512 - Seminar: History of Sociological Theory**

(4)

Prerequisite: Completion of SOC 497 with a grade of B or above. Historical dimensions, European and American, of development of systematic sociological theory and method; continuity and critique of major contributions to theories of society and the social processes.

- **SOC 514 - Seminar: Contemporary Sociological Theory**

(4)

Prerequisite: Completion of SOC 497 with a grade of B or above. Exploration and critique of problems, methods, and theories characteristic

of contemporary sociological inquiry; their relationship and contribution to advancement of sociological theory and application to selected social problems.

- **SOC 521 - Seminar: Sociology of Knowledge**

(4)

Relationships of scientific, artistic, legal, and intellectual activities to social structure, institutions, and historical change.

- **SOC 522 - Seminar: Social Psychology**

(4)

Prerequisite: Prior completion of SOC 422 or equivalent recommended. Analysis and critique of current approaches and investigations of the social processes that bind individuals and groups.

- **SOC 526 - Seminar: Sociology of Deviant Behavior**

(4)

Prerequisites: SOC 426, instructor consent. Analysis of major theoretical approaches and empirical studies in deviance; selected topics and current issues in study of social deviance.

- **SOC 530 - Seminar: Urban Social Systems**

(also listed as GEOG 530)

(4)

Prerequisite: Instructor consent. Growth and nature of urban social systems in selected cities and metropolitan areas, theories of urban structure and problems, improving quality of urban life, comparisons of cities in various countries.

- **SOC 534 - Seminar: Population**

(4)

Prerequisite: SOC 434. Problems of population growth; social and psychological factors in population dynamics; population planning and policy.

- **SOC 540 - Seminar: Marriage and the Family**

(4)

Advanced study of sociopsychodynamics of marriage and the family; emphasis on recent research on family change, parent-child relationships, and family instability; successful family life.

- **SOC 541 - Seminar: Gender and Labor**

(4)

Advanced study of the sources and consequences of gender differentiation and inequality. Particular attention paid to occupations, earnings, household work, interactions between gender and race, and feminist perspectives.

- **SOC 544 - Seminar: Social Organization, Institutions, and Change**

(4)

Selected macrosocial structures and their related processes and functions: total societies, institutions, complex organizations; the influence of class, ethnonational groups, and gender on them; social change. Emphasis varies.

• **SOC 560 - Seminar: Racial and Ethnic Minorities**

(4)

Prerequisite: SOC 460 recommended. Examination in depth of critical problems and trends affecting American minority groups; emphasis on analysis of change in strategies, tactics, ideologies, theories, and consequences of minority group relations.

• **SOC 580 - Seminar: Criminology**

(4)

Prerequisite: SOC 480. Advanced study of criminal behavior, social deviance, and social structure; comparative studies of contemporary criminality, criminal justice, and criminal codes; legal, medical, and psychiatric interpretation of criminal behavior.

• **SOC 589 - Seminar: Secondary Data Analysis**

4

Prerequisites: SOC 410 and 490 must have been completed with a grade of B or above prior to taking this class; instructor consent. Instruction on how to use an extant data set in the social sciences for formulating research questions and conducting secondary data analysis in producing a quantitative thesis or journal publication.

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Sociology (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

• SOC 590 - Seminar: Sociological Research

(4)

Prerequisites: SOC 410, 490 and SOC 491 must have been completed with grades of B or above prior to taking this class. Advanced study in behavioral research methodology; qualitative methods; survey design; experimental design, analysis; problems of interpretation; scaling techniques, models, simulation, computer data analysis; supervised application of methods.

• SOC 593 - Teaching Sociology at the College Level

(4)

Prerequisite: Advancement to Candidacy with a graduate program GPA of 3.0 or above. May be taken alone or concurrently with SOC 594. Higher educational pedagogy training in sociology instruction. Includes: lecture; group discussion; multi-modal teaching and learning styles; creating syllabi, lessons, class materials, and exams; grading practices; course and student outcomes assessment. ABC/NC.

• SOC 594 - Teaching Sociology Internship

(3)

Prerequisite: Advancement to Candidacy with a graduate program GPA of 3.0 or above. May be taken alone or concurrently with SOC 593. This is a classroom-based internship. Mentor professor determines internship role (running discussion groups, guest lecturing). Non-traditional grading system. CR/NC.

• SOC 595 - Special Topics in Sociology

(4)

Prerequisite: Instructor consent. Special topics in sociology including critical areas of social inquiry and special problems of sociology. Content varies; see Schedule of Classes for specific topic. May be repeated once for credit.

• **SOC 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Master's) Degree section of this chapter.

• **SOC 597 - Graduate Research**

(1–3)

Prerequisite: Consent of faculty sponsor. Proposed study must be approved prior to registration. Directed empirical research on a problem in sociology from conception through design; data gathering, analysis, and final written report. May be repeated for credit. Graded CR/NC.

• **SOC 598 - Graduate Directed Study**

(1–4)

Prerequisite: Consent of faculty sponsor. Proposed study must be approved prior to registration. Directed reading and critical analysis of a problem in sociology; written reports and conferences. May be repeated for credit.

• **SOC 599 - Thesis**

(1–3)

Prerequisites: Advancement to Candidacy, A grade of B or better in each of SOC 512, 514, and 590, prior to enrolling in SOC 599, Thesis proposal draft approved by the official thesis committee, and compliance with all College and Departmental thesis process policies. Independent research resulting in a thesis which will be presented in a formal public defense. Must be repeated to a maximum of 6 units. Two units for each of three, quarters strongly recommended. Graded CR/NC.

Spanish (Undergraduate)

All Upper Division courses are conducted in Spanish.

• **SPAN 100A - Elementary Spanish for Non-Heritage Speakers**

(4)

Prerequisite: Course limited to non-heritage speakers. Must be taken in sequence. Placement test option. Also see departmental "Limitation on Language Credit" policy in this catalog. Methodical presentation of the fundamental structures of Spanish through listening, speaking, reading, and writing practice. Introduction to the culture, of the Hispanophone people.

GE C4

• **SPAN 100B - Elementary Spanish for Non-Heritage Speakers**

(4)

Prerequisite: Course limited to non-heritage speakers. Must be taken in sequence. Placement test option. Also see departmental "Limitation on Language Credit" policy in this catalog. Methodical presentation of the fundamental structures of Spanish through listening, speaking, reading, and writing practice. Introduction to the culture, of the Hispanophone people.

GE C4

• **SPAN 100C - Elementary Spanish for Non-Heritage Speakers**

(4)

Prerequisite: Course limited to non-heritage speakers. Must be taken in sequence. Placement test option. Also see departmental "Limitation on Language Credit" policy in this catalog. Methodical presentation of the fundamental structures of Spanish through listening, speaking, reading, and writing practice. Introduction to the culture, of the Hispanophone people.

GE C4

• **SPAN 105 - Elementary Spanish for Heritage Speakers**

(4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Course limited to heritage learners of Spanish. Placement test option. Methodical presentation of the fundamental grammatical structures of Spanish with an emphasis on reading comprehension, vocabulary building, writing and culture. Credit allowed for only one of SPAN 100ABC or SPAN 105.

GE C4

• **SPAN 110 - Spanish Conversation for Professions**

(4)

Prerequisite: SPAN 100A. Course in Spanish conversation which focuses, according to student need, upon vocabulary used in medicine, law enforcement, or the social sciences. Basic grammar presented inductively. May be repeated for credit. May not be taken for credit by Spanish majors. Graded CR/NC.

• **SPAN 200A - Intermediate Spanish Non-Heritage Speakers**

(4)

Prerequisite: SPAN 100ABC or placement test; course limited to non-heritage speakers. Must be taken in sequence. See departmental "Limitation on Language Credit" policy in this catalog. Methodical development of intermediate communicative skills in Spanish; grammar review; vocabulary building; writing skills; study of the culture of the Hispanophone people.

GE C4

• **SPAN 200B - Intermediate Spanish Non-Heritage Speakers**

(4)

Prerequisite: SPAN 100ABC or placement test; course limited to non-heritage speakers. Must be taken in sequence. See departmental "Limitation on Language Credit" policy in this catalog. Methodical development of intermediate communicative skills in Spanish; grammar review; vocabulary building; writing skills; study of the culture of the Hispanophone people.

GE C4

• **SPAN 200C - Intermediate Spanish Non-Heritage Speakers**

(4)

Prerequisite: SPAN 100ABC or placement test; course limited to non-heritage speakers. Must be taken in sequence. See departmental "Limitation on Language Credit" policy in this catalog. Methodical development of intermediate communicative skills in Spanish; grammar review; vocabulary building; writing skills; study of the culture of the Hispanophone people.

GE C4

• **SPAN 205A - Intermediate Spanish for Heritage Speakers**

(4)

Prerequisite: SPAN 105 or placement test. Course limited to heritage learners of Spanish. Ability to speak Spanish, and basic knowledge of written Spanish. Must be taken in sequence. Non-heritage (SPAN 200ABC) and heritage (SPAN 205AB) courses may not be mixed; students will receive credit for either SPAN 200A (B, C) or SPAN 205A (B), but not for both. Also see departmental "Limitation on Language Credit" policy in this catalog. Emphasis on reading comprehension, vocabulary building, and writing; study of the culture of the Hispanophone world. SPAN 205AB may include a service learning option.

GE C4

• **SPAN 205B - Intermediate Spanish for Heritage Speakers**

(4)

Prerequisite: SPAN 105 or placement test. Course limited to heritage learners of Spanish. Ability to speak Spanish, and basic knowledge of written Spanish. Must be taken in sequence. Non-heritage (SPAN 200ABC) and heritage (SPAN 205AB) courses may not be mixed; students will receive credit for either SPAN 200A (B, C) or SPAN 205A (B), but not for both. Also see departmental "Limitation on Language Credit" policy in this catalog. Emphasis on reading comprehension, vocabulary building, and writing; study of the culture of the Hispanophone world. SPAN 205AB may include a service learning option.

GE C4

• **SPAN 242 - Hispanic Literature and Drama in Translation**

(4)

Study of significant Hispanic literary and dramatic texts in English translation. No knowledge of Spanish required.

GE C1

• **SPAN 300A - Advanced Composition and Grammar**

(4)

Prerequisite: SPAN 200C or 205B. Must be taken in sequence. Review of orthography and grammatical structures needed for linguistic accuracy in written communication. Practice in writing essays, including, but not limited to, description, narration, exposition, and argumentation. Introduction to MLA style.

• **SPAN 300B - Advanced Composition and Grammar**

(4)

Prerequisite: SPAN 200C or 205B. Must be taken in sequence. Review of orthography and grammatical structures needed for linguistic accuracy in written communication. Practice in writing essays, including, but not limited to, description, narration, exposition, and argumentation. Introduction to MLA style.

• **SPAN 305 - Introduction to Spanish Linguistics**

(4)

Prerequisite: SPAN 300A. Basic concepts of linguistics as applied to Spanish language; introduction to historical development of Spanish and regional dialects including Spanish spoken in the U.S.

• **SPAN 310 - Spanish Civilization**

(4)

Prerequisite: SPAN 200C or 205B. Synthesis of cultural characteristics of Spain.

• **SPAN 315 - Spanish-American Civilization**

(4)

Prerequisite: SPAN 200C or 205B. Synthesis of cultural characteristics of Spanish America.

• **SPAN 320 - Phonetics and Phonology**

(4)

Prerequisite: SPAN 305. Production of Spanish sounds, analysis of intonation, rhythm, accentuation, vowel linkage; study of the phonological system of Latin American Spanish and of dialectal and sociolinguistic variation across the Spanish-speaking world.

- **SPAN 380 - Commercial Spanish**

(4)

Prerequisite: SPAN 300B. NIS account required. Intensive study of Spanish used in business Spanish; theory and practice of fundamentals of commercial correspondence and negotiation in Spanish; translation of English commercial documents into Spanish; introduction to the socio-economic panorama of Spanish-speaking countries.

- **SPAN 395N - Spanish in Community Service**

(1–4)

Prerequisites: SPAN 300B, approval of departmental faculty adviser in consultation with EPIC director, acceptance by community agency. Participation in work of a community agency or program utilizing communication skills in Spanish. May be repeated once to maximum of 6 units. Graded CR/NC.

- **SPAN 397 - Field Work in Spanish**

(1–4)

Prerequisites: To be established by coordinator in consultation with host organization. Field work and internships in occupations in which communication skills in Spanish can be used and perfected. Minimum of 4 hours per week per credit hour. May be repeated to maximum of 4 units. Graded CR/NC.

- **SPAN 400A - Spanish Morphology**

(4)

Prerequisites: SPAN 305 and SPAN 300B. Study of parts of speech with attention given to nominal and verbal inflections, pronominal paradigms, and morphological structure of derived and compound Spanish words.

- **SPAN 400B - Syntax**

(4)

Prerequisite: SPAN 400A. Comprehensive review of Spanish syntax; analysis of structure of simple and complex sentences.

- **SPAN 401 - Introduction to Literary Analysis**

(4)

Prerequisite: SPAN 300B. Introduction to major forms and aesthetic concepts of, and critical approaches to, Hispanic literature.

- **SPAN 402 - Spanish in the United States**

(4)

Prerequisite: SPAN 305. Description of main varieties of Spanish in the US and then history. Communicative practices of bilingual Hispanics in this country and the phenomenon of Spanglish. Community attitudes toward language identity.

- **SPAN 403 - Topics in Spanish Applied Linguistics: Languages in Contrast**

(4)

Prerequisites: SPAN 400B, ENGL 305. Addresses issues of Spanish applied linguistics relevant for teachers of Spanish in the US. Topics

treated at both conceptual and language-specific levels from a cross-linguistic, cross-cultural perspective.

- **SPAN 408 - Spanish Literature I**

(4)

Prerequisite: SPAN 401. Introduction to Spanish literature from medieval period through the Golden Age.

- **SPAN 410 - Spanish Literature II**

(4)

Prerequisite: SPAN 401. Introduction to Spanish literature from 1700 to present.

- **SPAN 411 - Spanish-American Literature I**

(4)

Prerequisite: SPAN 401. Spanish-American literature from the Conquest to 1888.

- **SPAN 413 - Spanish-American Literature II**

(4)

Prerequisite: SPAN 401. Spanish-American literature from 1888 to present.

- **SPAN 414 - Don Quixote de la Mancha**

(4)

Prerequisite: SPAN 408. Reading and analysis of Don Quixote de la Mancha.

- **SPAN 417 - Spanish-American Short Story**

(4)

Prerequisite: SPAN 413. Spanish-American short story from the Tradiciones of Ricardo Palma to the present.

- **SPAN 418 - Golden Age Poetry and Prose**

(4)

Prerequisites: SPAN 401, 408. Reading and analysis of prominent poetry and prose writers of the Spanish Golden Age.

- **SPAN 419 - Colonial Spanish-American Literature**

(4)

Prerequisite: SPAN 411. Intensive study of colonial masterworks including prose, poetry, and theatre.

- **SPAN 421 - Mexican Literature of Twentieth Century**

(4)

Prerequisite: SPAN 413. Intensive study of significant works and movements of Mexican literature from 1900 to present.

- **SPAN 426 - Nineteenth Century Spanish Novel**

(4)

Prerequisite: SPAN 410. Intensive study of novelists of 19th century Spain.

- **SPAN 428 - The Generation of 1898**

(4)

Prerequisite: SPAN 410. Intensive study of poets, novelists, and essayists who promoted literary revival following 1898.

- **SPAN 429 - Nineteenth Century Spanish-American Literature**

(4)

Prerequisite: SPAN 411. Intensive study of 19th century masterworks including novel, poetry, and theatre.

- **SPAN 431 - Spanish-American Testimony**

(4)

Prerequisites: SPAN 315, 401. Study of Spanish-American testimonial narratives as a specific discursive and cultural genre. Theory, of "Testimony" and major testimonial works of Spanish American history.

- **SPAN 440 - Hispanic Film**

(4)

Prerequisite: SPAN 401. History and development of film in the Spanish speaking world; study of cultural, historical and language diversity; film adaptations of literary works and original films. Course taught in Spanish.

- **SPAN 445 - Journalism in Spanish**

(4)

Prerequisites: SPAN 300AB. This course focuses on developing Spanish writing skills, methods and techniques for all platforms of news media: print, radio, television and electronic media. Taught in Spanish.

- **SPAN 450 - Applied Spanish Journalism – Practicum**

(4)

Prerequisite: SPAN 445. This course introduces students of Spanish Journalism to all practical aspects of news gathering, production, editing and dissemination for all platforms of news media: print, radio, television as well as electronic media. Taught in Spanish.

- **SPAN 454L,P - Special Topics in Spanish**

(1–4)

Prerequisites: As needed for specific topic. Current topics of special interest in Spanish as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units.

- **SPAN 459 - Hispanic Play Production**
(Also listed as TA 459)

(3–4)

Prerequisite: Completion of intermediate Spanish. Introduction to major forms of Spanish drama; mechanics and production of a major work of Hispanic theatre. May be repeated to a total of 6-8 units of which a maximum of 4 may apply to major.

- **SPAN 472 - 20th and 21st Century Spanish Prose**

(4)

Prerequisite: SPAN 410. An exploration of the development of prose fiction in Spain throughout the Twentieth and Twenty- First centuries. Novels and short stories by representative authors will be studied.

- **SPAN 483 - Contemporary Spanish-American Novel**

(4)

Prerequisite: SPAN 413. Intensive study of the Spanish- American novel after 1910.

- **SPAN 485 - Southern Cone Fiction**

(4)

Prerequisite: SPAN 413. Representative works of Chilean, Argentine and Uruguayan prose fiction.

- **SPAN 499 - Undergraduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated to a maximum of 8 units for credit.

Spanish (Graduate)

Classified graduate standing is required for admission to all 500 level courses.

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: SPAN 400AB, 401, 403, 408, 410, 411, 413, 440, 454, 459

- **SPAN 500 - Academic Writing in Spanish**

(4)

Prerequisite: SPAN 401. Theory and practice of advanced scholarly writing in Spanish. Introduction to discourse analysis and the theory of argumentation; contrastive rhetoric and elements of style; research of electronic databases; and academic style sheets.

- **SPAN 501 - Development of Spanish Language**

(4)

Prerequisite: SPAN 320. Scientific analysis of written and spoken Spanish from its inception through its current use in the Hispanic world.

• **SPAN 504 - Studies in Medieval Literature**

(4)

Prerequisites: SPAN 408, 410. Principal Spanish literary works dating from twelfth to sixteenth century; their significance in historical development of various genres; their influence on subsequent literary history.

• **SPAN 507 - Literary Theory**

(4)

Prerequisite: SPAN 401. Study of contemporary literary theories, Hispanic critical thought and text interpretation.

• **SPAN 510 - Sociolinguistic Patterns in Spanish**

(4)

Prerequisite: SPAN 305. Principles of sociolinguistics and dialectology; sociolinguistic patterns in Hispanic languages; social and geographic language varieties including main features of Spanish in U.S.

• **SPAN 540 - Seminar: Spanish Poetry from Romanticism to the Present**

(4)

Prerequisites: SPAN 408, 410. Comprehensive and intensive study of Spanish poetry from the Romantic period to present. The poets and their poetry will be studied in light of literary movements, influence, political and philosophical ideas.

• **SPAN 545 - Seminar: Contemporary Spanish-American Poetry After Ruben Dario**

(4)

Prerequisites: SPAN 411, 413. Intensive study of Spanish American poets after Dario, including Mistral, Storni, Neruda, Vallejo, Guillen, Paz, Borges, and Cardenal. Literary Movements include Latin American posmodernismo, avant guard and post – avant guard.

• **SPAN 575 - Seminar: Hispanic Literature**

(4)

Prerequisites: SPAN 408 and 410 or 411 and 413. Intensive study of significant works of selected period in Spanish or Spanish-American literature. May be repeated to a maximum of 8 units as subject matter changes.

• **SPAN 583 - Seminar: Contemporary Hispanic Prose**

(4)

Prerequisites: SPAN 408 plus 410 or 411 plus 413. Recent Hispanic prose (novel, short story, essay); focus on Spanish or Spanish-American authors in alternate years. May be repeated to a maximum of 8 units for credit as subject matter changes.

• **SPAN 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the Masters Degree section of this chapter.

• **SPAN 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

Special Education (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDSP 403, 407, 489.

• **COUN 301 - Writing for Rehabilitation Services**

(4)

Prerequisites: ENGL 102, satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Reading, writing, and reasoning skills for communicating information in the context of rehabilitation services. Intensive practice in writing abstracts, reports, reviews, and other documents in the field. Graded A, B, C/NC.

• **COUN 301 - Writing for Rehabilitation Services**

(4)

Prerequisites: ENGL 102, satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Reading, writing, and reasoning skills for communicating information in the context of rehabilitation services. Intensive practice in writing abstracts, reports, reviews, and other documents in the field. Graded A, B, C/NC.

• **COUN 465 - Addiction Counseling**

(4)

Counseling theories of behavioral addictions, chemical dependency, and co-occurring disorders. Study of identification and treatment approaches, intervention modalities, behaviors and consequences, roles of persons and systems for counseling students.

• **EDSP 300 - Introduction to Special Education**

(4)

Learning theories, strategies, classroom management in multicultural communities. Verification of a minimum 45 hours participation with students without disabilities in general education settings. Required for the Education Specialist credential in special education.

• **EDSP 301 - Individuals with Disabilities in Contemporary Society**

(3)

Introduction to the construct of disability and services and accommodations which enable individuals to participate fully in all aspects of life. Participation in a minimum of ten hours of service learning activities that meet community needs. This course requires service learning.

• **EDSP 400 - Foundations of Special Education**

(4)

Legal, historical, and practice-based foundations of special education. Classification systems, characteristics, and individualization of services for students with disabilities and/or gifts and talents. Implications of risk factors for health and development.

- **EDSP 403 - Special Education Laboratory**

(1–5)

Prerequisite: EDSP 400. Practicum field experience with individuals with exceptional needs in designated areas of special education. Graded CR/NC.

- **EDSP 406 - Observation in Orientation and Mobility**

(1)

Prerequisite: Instructor consent. Opportunity for firsthand experience and observations in education and rehabilitation programs in orientation and mobility in general education and specialized settings. May be repeated to maximum of 2 units. Graded CR/NC.

- **EDSP 407 - Directed Teaching in Special Education**

(3–12)

Prerequisites: See Directed Teaching requirements; 12 units of directed teaching in an area of special education other than speech and hearing may be used to satisfy requirement for equivalent amount on teaching credential. Assignments in city and county schools under supervision and guidance of qualified teacher and University supervisor. Graded CR/NC.

- **EDSP 408 - Cognitive, Linguistic and Literacy Processes in Individuals with Special Needs**

(4)

Theories and sequences of cognitive, linguistic, and literacy development Impact of disabilities and culture; informal techniques of assessment of communication skills.

- **EDSP 409 - Assessment for Individuals with Exceptional Needs in Diverse Educational Settings**

(4)

Prerequisite or Corequisite: EDSP 300 or concurrent and EDSP 400. Principles, procedures, interpretation, communication, and application of formal/informal assessment techniques for individuals with exceptional needs in diverse educational settings. Using assessment data to develop IEPs and select appropriate curriculum.

- **EDSP 412 - State Standards and the Individualized Education Program**

(2)

Information related to state and national curriculum standards, writing individualized education programs, and lesson planning, for students with special needs.

- **EDSP 413 - Student Behavior and Social Interaction Skills: Support for Individuals with Special Needs**

(4)

Prerequisites EDSP 300 or concurrent and EDSP 400. Introduction to issues related to facilitation of appropriate behavior and social interaction skills of students with special needs. Principles and application of behavioral support and intervention will be discussed.

- **EDSP 416 - Working with Families of Young Handicapped Children**

(4)

Prerequisites: EDSP 400, course work in child development. Techniques for teachers and other professionals working with families of young handicapped children in infant and preschool programs.

- **EDSP 450 - Teaching Students with Mild to Severe Disabilities**

(4)

Prerequisite: EDSP 409. Teaching students with mild to severe disabilities in elementary and secondary settings. Focus on language arts, literacy, communication, mathematics, critical thinking and social competence.

- **EDSP 451 - Curriculum and Instructional Methods for Individuals with Moderate/Severe Disabilities**

(4)

Prerequisite EDSP 409. Assessment and instruction of students with moderate to severe disabilities including autism; writing IEP and lesson plans that align with state standards; making instructional modification and adaptations; and co-teaching and consultations.

- **EDSP 452 - Instructional Planning and Delivery for Students with Mild/Moderate Disabilities**

(4)

Prerequisite: EDSP 409. Instructional planning and strategies, adaptation of general education curriculum materials, strategic learning, differentiation of instruction. Approaches to collaborative teaching for students with mild-to-moderate disabilities.

- **EDSP 460 - Implications of Physical and Health Impairments**

(4)

Prerequisite: EDSP 400. Impact of physical and health impairments on psychological and sociological interactions and outcomes; implications for lifespan development, career preparation, and independent living.

- **EDSP 462 - Understanding Physical, Health, and Multiple Disabilities**

(4)

Prerequisite: EDSP 400. Understanding physical, health, and multiple disabilities, including neuromotor impairments, traumatic brain injury, degenerative diseases, orthopedic/musculoskeletal disorders, health impairments, major chromosomal anomalies/syndromes, and infectious diseases. Development, treatment, and implications.

- **EDSP 463 - Augmentative/Alternative Communication and Assistive Technology in Special Education**

(4)

Prerequisites: EDSP 408. Assistive technology to meet educational needs of individuals with severe disabilities. Emphasis on assessment, design, and implementation of augmentative and alternative communication technologies for persons with severe communication challenges.

- **EDSP 464 - Assessment and Curricular Adaptations for Individuals with Physical,**

Health, and Multiple Disabilities

(4)

Prerequisite: EDSP 409. Assessment and curricular adaptations for individuals with physical, health, and multiple disabilities. Modification of academic content areas, the arts, and functional academic curriculum. Emphasis on low and high assistive technology.

• EDSP 465 - Medical Aspects of Visual Impairments

(3)

Prerequisite or corequisite: EDSP 400 or instructor consent. Anatomy, physiology, and pathology of the eye; principles of optics, low vision devices; components of an eye exam and report; vision screening programs. (Lecture 3 hours).

• EDSP 465L - Functional Low Vision Assessment

(1)

Prerequisite or concurrent enrollment: EDSP 465. Principles of functional low vision assessment including techniques for administering assessments to infants/toddlers, school-age children, and children with multiple disabilities. Practical applications and implications for educational programming.

• EDSP 466 - Literary Braille and Strategies for Learners with Visual Impairments

(4)

Prerequisites or concurrent enrollment: EDSP 300 or instructor consent. Specialized communication skill fundamentals including uncontracted/contracted literary Braille slate & stylus, computer Braille, and Braille reading. Instructional strategies, assessment, and issues for English language learners in literacy for visually impaired students. NOTE: This course will be offered through a distance learning model that uses Web-based learning, students must be proficient in, and have access to current technology (hardware and software). They must be proficient in using e-mail and sending attachments.

• EDSP 466L - Learning Media Assessment for Students with Visual Impairments Laboratory

(1)

Prerequisite or concurrent enrollment: EDSP466 or Instructor Consent. Principles of learning media assessments including techniques for determining print size and administering learning-media assessments for students with visual impairments, including pre-readers, children with degenerative prognoses, and students with additional disabilities. (Lecture 0 hours, laboratory 3 hours)

• EDSP 468 - Working with Students who are Visually Impaired and who have Additional Disabilities

(2)

Prerequisite or concurrent enrollment in EDSP 300 or instructor consent. The focus of this course is instructional strategies for students who are visually impaired and who have additional disabilities. Will address task-analysis, behavior, communication, and functional skills within the Expanded Core Curriculum (ECC). Note: This course will be offered through a distance learning model that uses web-based learning, students must be proficient in, and have access to current technology (hardware and software), and be proficient in using e-mail, including sending attachments.

• EDSP 469 - Psychological, Sociological, and Vocational Implications of Visual Impairment and Blindness

(4)

Implications of visual impairment and blindness through the life span including family systems, cultural diversity, adjustment, and guidance. Vocational/transition issues, planning and development of professional advocacy, and collaboration skills.

- **EDSP 475 - Orientation and Mobility for the Blind**

(6)

Prerequisite: Approval of instructor. Principles and techniques of orientation and mobility for individuals who are blind. Practical application of techniques during simulated blindfold experiences. Content seminars address foundations and methods of orientation and mobility.

- **EDSP 476A - Orientation and Mobility Instructional Seminar**

(1)

Prerequisites: C or better in EDSP 475, instructor consent. Seminar in methods of assessment, planning and instruction in orientation and mobility for diverse learners who are visually impaired; development of concepts and spatial awareness; development and utilization of appropriate instructional materials and resources. (Seminar 1 hour)

- **EDSP 476B - Clinical Practice in Orientation and Mobility**

(4)

Prerequisites: C or better in EDSP 475, instructor consent. Prerequisite or corequisite: EDSP 476A. Clinical practicum in methods of assessment, planning and instruction in orientation and mobility for diverse learners with visual impairments; development of concepts and spatial awareness; development/utilization of instructional materials and resources. (Laboratory 12 hours)

- **EDSP 481 - Building Partnerships In Special Education through Life-Long Transition**

(4)

Prerequisite: EDSP 300 or concurrent and EDSP 400. Principles and practices of collaboration and consultation in various settings to meet the instructional needs of students with mild to severe disabilities through the life-long transition process.

- **EDSP 485 - Emergent Literacy: Curriculum and Accommodations for Young Children with Disabilities**

(4)

Prerequisites: EDSP 400, 408. Curriculum and evidence-based practices which will enable early childhood special educators to provide a sound foundation for literacy in young children with disabilities and those at risk for reading problems.

- **EDSP 489 - Demonstration of Instructional Competencies**

(3–12)

Prerequisite: Approval of division chairperson or designee. Demonstration of competencies related to instructional skills specified for components leading to completion of approved credential, certificate, or degree program requirements. May be repeated for credit with division approval. Graded CR/NC.

- **EDSP 490 - Problems in Special Education**

(2–5)

Prerequisite: Instructor consent. Investigation and study of unique problems in special education. Specific subject announced in Schedule of Classes. May be repeated for credit as subject matter changes.



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HELP

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Special Education (Undergraduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDSP 403, 407, 489.

• EDSP 495 - Intern Supervision Seminar

2

Prerequisite: Admission to Intern program. Seminar and supervised field experience in special education that relate to the candidate's intended credential authorization, and that provide multiple opportunities to interrelate theories and practices in special education settings. Repeatability (May be repeated to a maximum of 12 units); (Seminar 20 hours); CR/NC

• EDSP 499 - Undergraduate Directed Study

(1-4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Special Education (Graduate)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDSP 403, 407, 489. Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

• EDSP 500 - Research Methods in Special Education

(4)

Prerequisite: EDSP 400. Study of research relating to psychological and educational problems of exceptional children, introduction to methodological problems in developing, conducting, and reporting research in special education.

• EDSP 501 - Problems and Practices in Special Education

(4)

Prerequisite: EDSP 400. Problems of organization, administration, and supervision of special education programs; evaluation of recent proposed needed legislation; review of current literature for advanced students and administrators.

- **EDSP 503 - Field Work in Special Education**

(3–6)

Prerequisite: Consent of division chair. Supervised field training in problems relating to instruction, supervision, administration, evaluation, and guidance of exceptional individuals. Special assignments in schools, diagnostic centers, rehabilitation centers or community agencies. May be repeated to maximum of 9 units.

- **EDSP 504 - Selected Studies in Special Education**

(3–5)

Prerequisite: EDSP 400. Intensive study of designated problems in special education. May be repeated for credit as subject matter changes.

- **EDSP 509 - Advanced Methods and Models for Teaching Special Populations in General Education**

(4)

Prerequisite: EDSP 400 or equivalent. Advanced methodology and models designed to make possible the social and academic inclusion of students identified with disabilities or as gifted/talented in the general education classroom.

- **EDSP 511 - Seminar: Issues and Strategies for Multicultural Special Education Students**

(4)

Prerequisites: EDSP 408 or COMD 455. Special education for multicultural/bilingual exceptional students, issues in nondiscriminatory assessment, instructional strategies for multicultural/bilingual special education students.

- **EDSP 512 - Building Partnerships in Special Education**

(2)

Prerequisite: EDSP 400. Theory and methods of communication and collaboration with students, families, school and community personnel. Role of culture in communication, collaboration. Issues and concerns related to building partnerships.

- **EDSP 514 - Assessment of Infants and Young Children with Special Needs**

(4)

Prerequisites: EDSP 400, 408. Assessment and educational planning for infants and young children at risk and those with disabilities, including standardized, team-based, authentic, and play-based approaches.

- **EDSP 515 - Planning Programs for Exceptional Infants and Young Children**

(4)

Prerequisites: EDSP 415, 416, 514. A study of research and issues related to assessment, planning, and implementation (intervention) of services for at-risk and exceptional infants and young children.

- **EDSP 516 - Medical and Behavioral Characteristics of Young Infants with Special Needs**

(4)

Prerequisite: EDSP 400. Characteristics of the high-risk infant in the Neonatal Intensive Care Unit and after hospital discharge; characteristics of infants with identified disabilities; assessment and intervention strategies.

• **EDSP 517 - Advanced Issues in Early Childhood Special Education**

(4)

Prerequisites: EDSP 515. Current research and practices related to program development, intervention methods and parent-professional relationships in early childhood special education.

• **EDSP 551 - Building Social Competencies of Individuals with Moderate/Severe Disabilities**

(4)

Prerequisite: EDSP 451. Methods for case management and building social networks of students with moderate/severe disabilities including positive behavior support, appropriate communication skills, and social skills in natural settings.

• **EDSP 552 - Teaching Students with Reading and Writing Disabilities I**

(4units)

Prerequisite: EDEL 415 EDSP 409. Methods for assessment and instruction in literacy for students with reading and writing disabilities. Includes development of basic reading, writing, language skills in grades K-12 and across service delivery settings.

• **EDSP 554 - Educating Individuals with Emotional/Behavioral Disorders**

(4)

Prerequisites: EDSP 450 or instructor consent. Etiology, characteristics, instructional impact, and support of students with emotional/behavioral disorders (EBD). Emphasis is placed on issues of identification, assessment, educational planning, and positive behavioral support.

• **EDSP 555 - Advanced Methods in Mild/Moderate Disabilities**

(4)

Prerequisite: EDSP 452. Advanced methods for identification and instruction of individuals with mild to moderate disabilities, including specific learning disabilities, mental retardation, and behavior disorders; current issues, emerging trends, transition to adulthood.

• **EDSP 556 - Research in Mild/Moderate Disabilities**

(4)

Prerequisite or corequisite: EDSP 500. Intensive investigation of several research bases concerning topics relevant to the education of mild to moderate disabilities.

• **EDSP 557 - Teaching Foundational Literacy Skills to Students with Mild/Moderate Disabilities**

(4)

Prerequisite: EDEL 415. Methods for providing specialized reading instruction to students with reading difficulties. Assessment and instructional strategies, phonemic awareness, letter-sound knowledge, decoding, vocabulary and fluency in grades K-12 across service delivery settings.

- **EDSP 558 - Teaching Comprehension and Written Language to Students with Mild/Moderate Disabilities (4)**

(4 units)

Prerequisite: EDEL 415. Methods related to the development of literacy skills for students with mild/moderate disabilities including optimizing access to core curriculum and developing comprehension, fluency and written language.

- **EDSP 560 - Seminar: Education of Individuals with Physical Disabilities**

(4)

Prerequisite: EDSP 462. Identification and analysis of problems and current issues relating to the education of individuals with physical disabilities and those with multiple disabilities; review of research on specific disabilities.

- **EDSP 561 - Essential and Functional Skills for Students with Physical, Health, and Multiple Disabilities**

(2)

Prerequisite: EDSP 400. Physical/health management and instructional strategies for students with physical, health, and multiple disabilities. Physical management techniques, functional skills for personal care, specialized instructional strategies, and health management are addressed.

- **EDSP 565 - Advanced Problems in Education of Visually Handicapped**

(4)

Prerequisite: Completion of requirements for credential for teaching visually impaired. (May be taken concurrently with EDSP 407.) Identification and analysis of problems and current issues relating to education of visually impaired; review of recent research specifically related to visual impairment and its application to educational practice. NOTE: This course will be offered through a distance learning model that uses Web-based learning, students must be proficient in, and have access to current technology (hardware and software). They must be proficient in using e-mail and sending attachments.

- **EDSP 566 - Advanced Braille Codes and Strategies for Learners with Visual Impairments**

(4)

Prerequisite: EDSP466 or instructor consent. Course designed to teach advanced mathematical Braille code (Nemeth), basic Braille code for music, foreign language and computer (ASCII) to VI teachers. Instructional strategies/assessments (including abacus) for teaching mathematics and content related to codes. Note: This course will be offered through a distance learning model that uses web-based learning, students must be proficient in, and have access to current technology (hardware and software), and be proficient in using e-mail, including sending attachments.

- **EDSP 567 - Specialized Instructional Strategies for Struggling Readers and English Language Learners Who are Visually Impaired**

(4)

Prerequisite or concurrent enrollment: EDSP 566. Advanced understanding of impact of visual impairment and English language fluency on reading/writing performance for students using Braille and/or print learning media, including development of individualized reading programs, diagnostic/remediation skills for teachers. Lecture 4 hours. Note: This course will be offered through a distance learning model that uses web-based learning, students must be proficient in, and have access to current technology (hardware and software), and be proficient in using e-mail, including sending attachments.

- **EDSP 568 - Functional Skills from the Expanded Core Curriculum for Students who are Blind or Visually Impaired**

(2)

Prerequisites or corequisite: EDSP 400 or approval of instructor. Teaching functional skills (e.g., personal management, daily living skills, cooking, and O&M basics) from the expanded core curriculum to students who are blind or visually impaired.

- **EDSP 569 - Specialized Technology for Individuals with Visual Impairments**

(4 units)

Prerequisite: EDSP 508 or equivalent. Hands-on instructional training and applied practicum in adaptive technology specific to individuals with visual impairments, including electronic notetakers, tactile graphics, computer-generated Braille translation, and computer screen programs.

- **EDSP 570A - Low Incidence Early Childhood Special Education**

(2)

Pre- or corequisites: EDSP 400, EDSP 408 or course equivalent. Early intervention procedures and strategies for working with infants, toddlers, and young children with low incidence disabilities (deaf and hard-of-hearing, visual impairment, and physical and health impairments) and multiple disabilities.

- **EDSP 570B - Low Incidence Early Childhood Special Education**

(2)

Pre- or corequisites: EDSP 400, EDSP 408 or course equivalent. Early intervention procedures and strategies for working with infants, toddlers, and young children with low incidence disabilities (deaf and hard-of-hearing, visual impairment, and physical and health impairments) and multiple disabilities.

- **EDSP 571 - Braille Competency Examination**

(2)

Prerequisite: EDSP 566. Students must demonstrate proficiency at overwriting and transcribing text into braille using a Perkins braille writer and a slate and stylus in literary and mathematical braille codes.

- **EDSP 575A - Advanced Seminar in Orientation and Mobility**

(1)

Prerequisite: C or better in EDSP 475, instructor consent. Advanced seminar in orientation and mobility issues, systems and processes (Seminar 1 hour). This course may be offered using a combination of web-based and field-based learning.

- **EDSP 575B - Advanced Clinical Practice in Orientation and Mobility**

(4)

Prerequisite: EDSP 476A&B, instructor consent. Prerequisite or corequisite: EDSP 575A. Advanced clinical training in orientation and mobility processes and application of methods, materials, and individualized instructional units in meeting the needs of individuals who are blind and visually impaired. (Laboratory 12 hours)

- **EDSP 576A - Orientation and Mobility: Seminar in Multiple Disabilities**

(2)

Prerequisites: EDSP 476A&B, instructor consent . Seminar in strategies for teaching orientation and mobility to visually impaired individuals with multiple disabilities. Seminar emphasizes the modification of typical instructional strategies and techniques, and use of adaptive devices. (Seminar 2 hours)

- **EDSP 576B - Clinical Practice in Orientation and Mobility: Emphasis Multiple Disabilities**

(2)

Prerequisites: EDSP 476 A&B, instructor consent. Prerequisite or corequisite: EDSP 576A. Clinical practice in teaching orientation and mobility to visually impaired individuals with multiple disabilities, emphasizing modification of typical instructional strategies and techniques, and use of adaptive devices. Field practicum 6 hours. (Laboratory 4-6 hours)

- **EDSP 579 - Developing Informal Assessment and ITP**

(4)

Prerequisite: EDSP 481 or permission of instructor. Review assessment strategies, develop informal assessment tools to gather information on transition needs, and write appropriate individualized transition plans for students with disabilities who are in transition from school to adult living.

- **EDSP 581 - Transition Planning for Secondary Students with Disabilities**

(4)

Principles and issues of transition planning for secondary – level students with disabilities in postsecondary education, employment (including supportive employment/entrepreneur) independent living, leisure/recreation, and community living; needs assessment in curriculum; instructional strategies; collaboration skills.

- **EDSP 582 - Advanced Instructional Interventions for Individuals with Moderate to Severe Disabilities**

(4)

Prerequisite: EDSP 451. Specialized methods, materials, and equipment to teach students with moderate to severe disabilities communication, mobility, sensory integration, specialized health care, and assistive technology in the life-long transition process.

- **EDSP 583 - Advanced Issues and Research in Inclusive Education**

(4)

Prerequisite: EDSP 451 or EDSP 452. Issues and research relevant to current practices in inclusive educational practices.

- **EDSP 584 - Seminar in Moderate to Severe Disabilities**

(4)

Prerequisites: EDSP 582 or permission from the instructor. Issues and research relevant to current practices in educational services of individuals with disabilities.

- **EDSP 586 - Educating Students with Autism**

(4)

Prerequisite or Co-requisite: EDSP 413 or COUN 501. Overview of characteristics of autism. Review of assessment strategies, current interventions for behavior, communication, and social deficits. Classroom arrangement and organizational strategies. Interdisciplinary

approaches. Augmentative communication technique

- **EDSP 587 - Teaching Functional Communication**

(4)

Prerequisite: EDSP 413. Methods for assessing communication needs of students with severe cognitive disabilities. Approaches for teaching communication skills using verbal and augmentative strategies.

- **EDSP 595A - Seminar: Development of Induction Plan**

(2)

Prerequisite: A valid California Education Specialist Level Credential, or for interns, completion of first year of Level I Credential program. Development of individualized induction plan by candidate, university supervisor, and district support provider. Induction plan is designed for the support and professional development of the beginning special educator. CR/NC

- **EDSP 595B - Seminar: Assessment of Induction Plan**

(2)

Prerequisite: EDSP 595A, completion of individualized induction plan. Final assessment of Induction Plan and Level II competencies conducted by candidate, university supervisor, and district support provider. Satisfactory completion leads to Level II Specialist Credential in Special Education. Graded CR/NC.

- **EDSP 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

- **EDSP 597 - Graduate Research**

(1–4)

Prerequisites: EDFN 500 or instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

- **EDSP 598 - Graduate Directed Study**

(1–4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

- **EDSP 599A - Thesis or Project Planning**

(3)

Prerequisites: EDFN 452 and 500 or EDSP 500, advancement to candidacy, written approval of thesis chair. Prior to completion, students will have completed draft of thesis or project proposal, selected a thesis committee, and submitted a draft of thesis or project proposal to thesis committee. Graded CR/NC.

- **EDSP 599B - Thesis or Project**

(2)

Prerequisites: EDSP 599A, written approval of thesis committee chair. Prior to completion, students will have submitted a final draft of thesis or project proposal to thesis committee. Graded CR/NC.

- **EDSP 599C - Thesis or Project**

(2)

Prerequisites: EDSP 599, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC.

Special Education (Doctoral)

- **COUN 601 - Research Methods in Single Subject Design**

(3*)

Prerequisites: Post-master's degree standing or permission of instructor, advisor, and division chair. Knowledge and practical application in analyzing and conducting research utilizing single subject design methodology with emphasis on causal inference. Application of methodology to field-based, student developed research.

*Semester Units

- **EDSP 600 - Seminar: Understanding and Using Research to Answer Questions about Diverse Urban Schools**

(3*)

Prerequisite: Post-master's degree standing and permission of instructor, program director/coordinator, and division chair. Development of critical analysis, interpretation, synthesis of research, and communication of findings on issues related to students with disabilities in diverse urban schools and colleges to promote achievement and inclusion.

*Semester Units

- **EDSP 602 - Practicum: Program Development and Evaluation**

(1-3)

Prerequisite: Post-master's degree standing. Development of proposals and grant applications for submission to federal, state, and private agencies for research, training, and public school program funding. May be repeated for credit.

- **EDSP 604 - Disability, Race, Language, and Gender: Educational Equity, School Policy, and the Law**

(3*)

Prerequisites: Post-master's degree standing and permission of instructor, program director/coordinator, and division chair. Current legal, policy, and leadership issues regarding the education of diverse students, with a focus on disability, race, language, and gender. Review of important and litigation with practice implications.

*Semester Units

- **EDSP 612 - Program Proposal, Development, and Evaluation in Higher Education**

(4)

Prerequisite: Post-master's degree standing. Procedures for needs assessment, development, evaluation of special programs/projects; development of proposals and grant applications.

- **EDSP 640 - Research on Exceptional Students from Diverse Cultural and Linguistic Backgrounds**

(3*)

Prerequisites: Post-master's degree standing and permission of instructor, program director/coordinator, and division chair. Research on the relationships among culture language, and literacy; impact of disabilities on language, cognition, and academic achievement; identification and placement issues/strategies; and culturally responsive educational settings.

*Semester Units

- **EDSP 660 - Seminar: Research on Learning Disabilities and Behavior Disorders**

(3*)

Prerequisites: Post-master's degree standing and permission of instructor, program director/coordinator, and division chair. Research, theory, and policy related to educating individuals at-risk or identified as having learning disabilities or behavior disorders; issues related to prevention and risk, identification, placement, and intervention.

*Semester Units

- **EDSP 698 - Graduate Directed Study**

(1-8)

Prerequisite: Consent of an instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

- **EDSP 699 - Doctoral Dissertation**

(4-8)

Prerequisites: Advancement to candidacy for Ph.D. degree, consent of an instructor to act as sponsor, division approval of topic prior to registration. Continuous enrollment required while student is working on dissertation.

Teaching English to Speakers of Other Languages (Undergraduate)

- **TESL 400 - Linguistics in Language Education**

(4)

This introductory course examines key sociocultural and educational issues related to language learning and use and covers key concepts in linguistics such as phonology, morphology, syntax, and semantics.

Teaching English to Speakers of Other Languages (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program

- **TESL 560 - Theories of Teaching and Learning Second Languages**

(4)

Prerequisite: ENGL 401 or TESL 400, or EDSP 408. Addresses major questions in the teaching and learning of second languages, such as how first language acquisition compares with second, the role of affective/cultural variables and theories underlying teaching methods.

- **TESL 561 - Pedagogical Grammar for Teachers ESL/EFL**

Prerequisites: ENGL 401, TESL 560. Consideration of the role of grammar in second/foreign language teaching and survey of the structure of English grammar for ESL/EFL teachers; strategies for presenting grammatical forms to nonnative speakers.

- **TESL 562 - Methods for Teaching Second Languages**

(4)

Prerequisite: TESL 560. Current instructional methods for teaching ESL/EFL to students at beginning through advanced levels (K-12, Adult).

- **TESL 564 - Teaching English as a Second Language for Academic Purposes**

(4)

Prerequisites: TESL 560, 562. Teaching techniques for preparing ESL students for university-level academic study.

- **TESL 565 - Using Computers in the Language Classroom**

(4)

Prerequisites: TESL 560; EDIT 430 or equivalent. This course explores the uses of computers in the language classroom (ESL & foreign language), including language learning through word processing, language practice, home-oriented & educational software, and the Internet.

- **TESL 566 - English Phonetics for Second Language Teachers**

(4)

Prerequisites: ENGL 405, TESL 562. The phonetics of English and the phonetic phenomena that occur in the major languages of ESL learners in the U.S. A detailed study of sounds of American English and other "Englishes."

- **TESL 567A - Language Testing**

(4)

Analysis of testing and evaluation in second language programs; emphasis on evaluating effectiveness of teacher-made tests and current standardized test instruments used for assessing language proficiency.

- **TESL 567B - Current Issues in Language Testing**

(4)

Prerequisite: TESL 567A. Current specialized issues in language testing. Designed to explore topics from both theoretical and practical perspectives. Specific topics vary according to trends in the field. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

- **TESL 568 - Practicum in English as a Second Language**

(4)

Prerequisite: TESL 564. Supervised field experience in teaching English as a second language.

- **TESL 569 - Language Planning and Language Policy**

(4)

Prerequisite: TESL 560. Survey of approaches to ESL/EFL language planning and policy including language maintenance, shift and standardization in multilingual and multicultural communities in the U.S. and abroad.

- **TESL 570 - Educational Sociolinguistics**

(4)

Influences of community, home, and school on language acquisition process. Language policy, social and linguistic change, language variations described; current status assessed; related cultural and pedagogical issues raised.

- **TESL 571 - Seminar: Discourse Analysis in the Language Classroom**

(4)

Prerequisite: TESL 560. A sociolinguistic analysis of interactional patterns, expectations, and communication strategies in the language classroom; emphasis on current studies with some direct experience in discourse analysis as a legitimate research method.

- **TESL 572 - ESL/EFL Course, Syllabus and Materials Design**

(4)

Prerequisites: ENGL 401, TESL 560, 562. Survey of approaches to ESL/EFL course and syllabus design including materials selection, adaptation, development, and evaluation.

- **TESL 573A - Seminar: Issues in Classroom Second Language Acquisition**

(4)

Prerequisites: EDFN 452 or 500, TESL 560. Current research as it illuminates the second language acquisition process in classrooms. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

- **TESL 573B - Current Issues in Second Language Research**

(4)

Prerequisite: TESL 573A. Current specialized issues in second language research. Designed to explore topics from both theoretical and practical perspectives. Specific topics vary according to trends in the field. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

- **TESL 574 - Educational Psycholinguistics**

(4)

Prerequisite: TESL 560. Survey of psycholinguistic research related to language learning and teaching. Addresses issues of comprehension, production, and acquisition. Related pedagogical issues are raised.

- **TESL 575 - EFL/ESL Reading-Writing Connections**

(4)

Prerequisites: TESL 560, TESL 562. This course examines EFL/ESL reading/writing theory and pedagogy in adult EFL/ESL classrooms and English for academic purposes classrooms in Intensive English Programs and community colleges.

- **TESL 596 - Comprehensive Examination**

(0)

Graded CR/NC.

- **TESL 597 - Graduate Research**

(1–4)

Prerequisites: EDFN 500, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

- **TESL 598 - Graduate Directed Study**

(1–4)

Prerequisite: B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in TESOL, regular conferences with sponsor. May be repeated for credit.

- **TESL 599A - Thesis of Project Planning**

(3)

Prerequisites: EDFN 452 or another advisor approved research course, and 500 or 553, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis of project proposal to thesis committee. Graded CR/NC.

- **TESL 599B - Thesis or Project**

(2)

Prerequisites: TESL 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft of project of thesis committee. Graded CR/NC.

- **TESL 599C - Thesis or Project**

(2)

Prerequisites: TESL 599B, written approval of thesis committee chair. Completion of thesis of project under direct supervision of thesis committee. Graded CR/NC.

- **TESL 900 - Graduate Studies**

(0)

Prerequisite: TESL 599ABC, instructor consent to act as sponsor, division approval. Graded CR/NC.

Teaching English to Speakers of Other Languages (Doctoral)

(Doctoral Courses)

• **TESL 600 - Language Planning and Policy**

(3*)

Prerequisite: Post-master's degree standing and permission of instructor, program director/coordinator and division chair. Overview of language acquisition in educational settings; language planning with specific reference to local, state, national, and international educational contexts; historical, social, and theoretical perspectives on language policy and planning.

*Semester Units

Technology (Graduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser. Classified graduate standing is required for admission to all 500 level courses

• **TECH 502 - Modern Industry**

(3)

Prerequisites: An acceptable undergraduate major in Industrial Technology, Industrial Arts or Vocational Education, or comprehensive background of industrial experience, and TECH 300AB. Advanced study of growth, development, and organization of industry; new materials and processes. Problems of industry with significance for present social order.

• **TECH 505 - Supervision and Organization of Vocational Education**

(4)

Responsibilities of supervisor for organizing vocational education programs at various levels and for improving instruction. May be repeated to maximum of 8 units with permission of instructor.

• **TECH 506 - Seminar: Industrial Education**

(4)

Investigation of teaching problems in industrial education. Individual and group studies of special problems.

• **TECH 507 - Seminar: Industrial Studies**

(4)

Prerequisite: TECH 502. Advanced study of developments in industrial materials, processes, machines, and equipment; relationships between industrial developments and society; emphasis on research and investigation.

• **TECH 583 - Development, Use, and Evaluation of Industrial Education Instructional Materials**

(4)

Advanced course in development, use, and evaluation of instructional materials, with emphasis on three-dimensional teaching aids, charts, slides, and displays.

- **TECH 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 9 units.

- **TECH 599A - Thesis or Project**

(1–2)

Prerequisites: Instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to total of 2 units. Graded CR/NC.

- **TECH 599B - Thesis or Project**

(1–3)

Prerequisites: TECH 599A, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to total of 3 units. Graded CR/NC.

Television, Film and Media Studies (Undergraduate)

- **TVF 200 - Introduction to Digital Production**

(4)

Prerequisite: TVF majors or by permission of the instructor. An introduction to the fundamental production skills and aesthetics of audio, video/television, film and new media. Topics include pre-production planning, camera operation, location lighting, sound and editing. Lecture 3 hours, laboratory 2 hours.

- **TVF 201 - Introduction to Television Studio Production**

(4)

Introduction to television production facilities, equipment and techniques. Principles of directing, camera, sound, control room operations. Lecture 3 hours, laboratory 2 hours.

- **TVF 210 - Body and Identity in Dance, Theater, Film
(also listed as DANC and TA 210)**

(4)

The aesthetic bases of dance, theater and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class.

GE C2

- **TVF 220 - Introduction to Broadcasting**

(4)

Survey of principles and practices in American broadcasting with emphasis on techniques of radio and television programming through lectures, reports, and selected viewing.

- **TVF 224 - Survey of Film**

(4)
Cinema as a creative communication medium, emphasizing certain perceptual, conceptual, and technical considerations.

• **TVF 225 - Interpreting World Cinema**
(also listed as ENGL 225)

(4)
Critical survey of world cinema as art and cultural artifact. Provides critical methodology and practical tools for analyzing and interpreting international film movements, genres and themes.

GE C2

• **TVF 240 - Film, Novel, Theater**
(also listed as ENGL and TA 240)

(4)
Prerequisite: Completion of ENGL 101. An exploration of film, theater, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact.

GE C5

• **TVF 249 - Announcing**

(4)
On-air techniques for reading and reporting radio and television news.

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HELP

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Television, Film and Media Studies (Undergraduate)

• TVF 250 - Media, Culture and Identity

(4)

Explores the social construction of "racial," ethnic, gender, class, national and sexual identity, emphasizing the role of the mass media. Takes historical, sociological, political and cultural/ideological approaches.

GE D ; Approved diversity course

• TVF 265 - Introduction to Scriptwriting

(4)

Basic techniques of short screenplay structure and storytelling. Script development from an original story concept through synopsis, story treatment, outline, plot and character development, culminating in an original short script. Lecture 3 hours, laboratory 2 hours.

• TVF 280 - Animation History

(4)

Survey course on the history of animation and its relationship to society and culture. Overview of well-known animators and landmark animated films. Lecture 4 hours.

• TVF 292 - Introduction to News Writing and Reporting

(4)

Prerequisite: ENGL 102. Introduction to news writing and reporting. News sources, collection of news, acceptable forms for news stories, news reporting styles and journalism ethics.

• TVF 301 - Intermediate Television Studio Production

(4)

Prerequisites: TVF 201 and either TVF 265 or instructor consent. Intermediate study of directing principles and production techniques as applied to educational, informational, and cultural program production. Lecture 3 hours, laboratory 2 hours.

- **TVF 303A - Introduction to Digital Graphics**

(2)

Prerequisites: TVF 200, 201. Lab-based workshop providing application and operational understanding of digital post-production graphics. Elective credit only. Graded CR/NC. Activity 4 hours.

- **TVF 303B - Introduction to Digital Post Production**

(2)

Prerequisites: TVF 200, TVF 201. Lab-based workshop providing application and operational understanding of digital post production. Elective credit only. Graded CR/ NC. Activity 4 hours.

- **TVF 303C - Introduction to Digital Sound Post Production**

(2)

Prerequisite: TVF 200, TVF 201. Lab-based workshop providing application and operational understanding of digital sound post-production. Elective credit only. Graded CR/ NC. Activity 4 hours.

- **TVF 320 - Audio Production**

(4)

Prerequisite: TVF 220. Practicum in sound for radio, television and film. Lecture 3 hours, activity 2 hours.

- **TVF 324 - Third Cinema/Video**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and analysis of the cultural and textual politics of Third Cinema/ Video-film and video produced by and for developing countries and their Western diaspora communities.

GE Theme A

- **TVF 328 - Film History**

(4)

Prerequisite: TVF 224. Examination of significant historical events, persons and movements which have influenced the cultural and institutional development of motion pictures.

- **TVF 330 - The Documentary in Broadcasting and Film**

(4)

Prerequisites: TVF 220, 224. Historical and critical study of documentary form in broadcasting and film using classic examples in radio, television, and motion pictures.

- **TVF 334 - "Race", Justice and the Mass Media**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Examines racism in media institutions and representations. Emphasizes historical role of media in the social construction of "racial" identity, the legitimization and reproduction of racist domination, and resistance to racism.

GE Theme H ; Approved diversity course

- **TVF 340 - Interviewing For News Media**

4

Prerequisites: Satisfactory completion of at least two of the following courses: TVF 292, TVF 200, TVF 300; and upper division standing. Practicum in preparation, conducting and analyzing interview technique for news media. Includes ethical and legal parameters involved in interview processes and outcomes. (Lecture 4 units)

- **TVF 354L - Selected Studies in Broadcasting Production**

(1-4)

Prerequisite: TVF 301. Special application of audio and video production and post production technologies. Variable topics. May be repeated to maximum of 12 elective units as subject matter changes. Graded CR/NC.

- **TVF 362 - Film and Television Aesthetics**

(4)

Prerequisites: TVF 220, 328. Film and television aesthetics, analyzing component elements of light, space, time, sound, music, and motion in synthesized image.

- **TVF 365 - Intermediate Scriptwriting**

(4)

Prerequisites: TVF 201, 265. Techniques of feature film writing, script story theory, structure and analysis. Lecture and workshop-based, computer-assisted feature script development and writing. Typed story synopsis required for first class meeting.

- **TVF 366 - Violence and the Media**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Violence and the Media examines the impact of the mass media on individual and collective violence, utilizing cultural and semiotic/textual forms of theory and analysis.

GE Theme B

- **TVF 370 - Broadcasting and Film as Shapers of the Public Mind**

(4)

Prerequisites: TVF 220, 224. Broadcast and film media as persuasive and motivational forces in society, techniques of audience-market research, advertising process, and effects of advertising environment on public opinion and buying power.

- **TVF 377 - Introduction to Animation**

(4)

Prerequisites: ART 159 and ART 244 or consent of instructor. Cel animation practicum stressing development of storyboards, artwork and camera technique. Lecture 1 hour, activity 3 hours.

- **TVF 378 - Writing and Storyboarding for Animation**

(4)

Prerequisites: TVF 265 or consent of instructor. Recommended concurrent enrollment in TVF 377. Research and practice in the creation of original animation storyboards, including structure and design of both visual and verbal content. Study of narrative and non-narrative approaches. Lecture 1 hour, activity 3 hours.

- **TVF 379 - Gender and Sexuality in Popular Culture**
(also listed as ENGL 379)

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and critical analysis of narrative and visual representations of gender and sexuality in the modes of popular culture, such as television, film, advertising, popular fiction, and the tabloid press.

GE Theme C ; Approved diversity course

- **TVF 380 - Emotion in Theater and Film**
(also listed as TA 380)

(4)

Prerequisites: Basic Subjects (Block A) and one course from Block C. Analysis of emotion as motivational force in theater and film. Emotion as critical factor in performance, narrative development and the essential mediating component compelling audiences to the theatrical/cinematic experience.

GE Theme E

- **TVF 381 - Advanced Animation**

(4)

Prerequisite: TVF 377 and TVF 378. Advanced traditional animation course utilizing ink-and-paint or other artistic media, including digital, to create a short animated film. Repeatable to 8 units. Lecture 1 hour, activity 3 hours.

- **TVF 397 - Cinematography**

(4)

Prerequisite: TVF 200. Principles and practices in motion picture photography including directing for single camera, camera operation, lighting, and editing. May include field trips. Lecture 3 hours, activity 2 hours. Repeatable to 8 units.

- **TVF 398 - Cooperative Education**
(see UNIV 398)

(1–8)

Cooperative Education

- **TVF 401 - Advanced Video Production**

(4)

Prerequisites: TVF 200, 224, 301. Advanced studio and location practicum stressing aesthetics of video production. Seminar 3 hours, activity 2 hours.

- **TVF 403A - Advanced Digital Motion Graphics and Special Effects**

(4)

Prerequisite: TVF 303A. Lab-based workshop providing advanced instruction and application of motion graphics and effects. Elective credit only. Graded CR/NC. Activity 4 hours.

- **TVF 403B - Advanced Digital Post Production**

(2)

Prerequisite: TVF 303B. Advanced instruction and application of digital post production technologies. Elective credit only. Graded CR/NC. Activity 4 hours.

- **TVF 403C - Advanced Digital Sound Post Production**

(2)

Prerequisite: TVF303C. Advanced instruction and application of digital sound post production technologies. Elective Credit only. Graded CR/NC. Activity 4 hours.

- **TVF 410 - Contemporary Radio Broadcasting**

(4)

Prerequisite: TVF 220. Description and analysis of the structure and practice of contemporary radio.

- **TVF 411 - Children's Media**

(4)

Prerequisites: TVF 220, 224. Critical industry and product content analysis of media produced for children, including television programming, film, video games, CD-ROM and computer programs.

- **TVF 420 - Responsibility and Regulation in Broadcasting and Film**

(4)

Prerequisites: TVF 220, 224. Professional responsibilities of broadcasters and film makers to their audiences; regulatory issues, problems, and systems that influence broadcast and film production in the U.S.

- **TVF 424 - Crosscultural Broadcasting and Film**

(4)

Prerequisites: TVF 220, 224. Broadcast media and film as means of crosscultural communication and intercultural understanding from both national and international perspectives; moral, social, and psychological implications.

- **TVF 430 - Documentary Field Production**

(4)

Prerequisites: TVF 200, 330. Video field practicum stressing aesthetics and techniques of documentary production. Lecture 3 hours, laboratory 2 hours.

• **TVF 434 - Latin American Radio Documentary Production**
(also listed as LAS 434)

(4)

Recommended prerequisites: TVF 320 or 2 upper division Latin American content courses in history, political science, or Latin American studies. Analysis of political, economic, and cultural issues in Latin America, utilizing primary sources; production of research in the form of broadcasting tapes.

• **TVF 440 - Noncommercial Broadcasting and Film**

(4)

Prerequisites: TVF 220, 224. Analysis of noncommercial broadcasting and film systems; special focus on the Public Broadcasting System and key film distribution companies.

• **TVF 453 - International Communication Media**

(4)

Prerequisite: TVF 220, 224, or COMM 150. Description and analysis of media systems (print, audio, and video) as they exist in various countries around the world, and the means by which information is exchanged internationally.

• **TVF 454 - Selected Studies in Broadcasting**

(1-4)

Selected topics in broadcasting media, as announced in Schedule of Classes. May be repeated to maximum of 12 units for credit as subject matter changes.

• **TVF 454L - Selected Studies in Production**

(4)

Prerequisite: TVF 301. Special application of audio and video production techniques in the creation of entertainment, educational, documentary, and public affairs programming. Variable topics. May be repeated to maximum of 12 units as subject matter changes. Lecture 3 hours, laboratory 2 hours.

• **TVF 460 - Theories in Mass Communication**

(4)

Prerequisite: TVF 220. Historical and analytical investigation of mass communication/media theory.

• **TVF 462 - Criticism of and Film and Television**

(4)

Prerequisite: TVF 362. Purposes and methods of criticism as applied to film and television; development of standards of critical evaluation as determined by analyses of selected television programming and motion pictures.

• **TVF 465 - Seminar: Advanced Scriptwriting**

(4)

Prerequisite: TVF 365 or consent of instructor. Writing workshops, scene clinics and writer/actor lab activities for rewriting an existing feature screenplay and developing a new film/television script. May be repeated to a maximum of 8 units.

- **TVF 470 - Administration and Studio Operations in Broadcasting and Film**

(4)

Prerequisites: TVF 220, 224. Administrative techniques, operational procedures, and organizational structures within contemporary radio and television broadcast stations and film studios.

- **TVF 475 - Television News/Magazine Production**

(4)

Prerequisites: TVF 201, TVF 200. Practicum in television news/magazine segment production. Students produce a weekly program, which appears on campus and local cable systems. May be repeated up to 8 units. Seminar 3 hours, activity 2 hours.

- **TVF 480 - New Media Technologies**

(4)

Prerequisites: TVF 201, 220. Description and analysis of new and evolving communication media, their growth, development, and effect on social and political systems.

- **TVF 482 - Digital Journalism**

4

Prerequisites TVF 220, TVF 292 and four units of upper-division TVF production courses. Students learn to identify stories, research, write, produce and publish to the web a wide range of journalism content consisting of text, audio, video, animation and other computer-based communications.

- **TVF 492A - Motion Picture Preproduction**

(4)

Prerequisite: TVF 301. Preparation for making a motion picture; emphasis on 16mm short film of approximately 30 minutes in length, applicable to longer films. Lecture 3 hours, activity 3 hours.

- **TVF 492B - Motion Picture Production**

(4)

Prerequisite: TVF 301. Shooting and editing the motion picture, as planned in TVF 492A; emphasis on 16mm short films of approximately 15 to 30 minutes, applicable to longer films. May be repeated to a maximum of 8 units. Lecture 3 hours, activity 3 hours.

- **TVF 492C - Motion Picture Postproduction**

(4)

Prerequisite: TVF 301. Editing, sound track preparation, music recording and editing, title and optical EFX creation, final color timing and negative conforming; completion of 492B project. Lecture 3 hours, activity 3 hours.

- **TVF 497 - Digital Production Portfolio**

(4)

Prerequisites: TVF301 and one from TVF401, 430, or 475 and one from TVF320, 377 or 397. Practicum focusing on the creation of a professional portfolio suitable for festival entry, distribution and employment. Activity 3 hours, Laboratory 2 hours.

- **TVF 498 - Capstone Animation Project**
(also listed as ART 498)

(1–4)

Prerequisites: Consent of the instructor plus one of the following sequences: ART 480, 494, 496 or TVF 377, 378, 381. The design, pre-production, production and post-production of an advanced animated work suitable for portfolio presentation. Up to six units may be taken by a student who is assisting on someone else's Capstone Animation Project. Activity 8 hours. 12 units are required for Animation majors.

- **TVF 499 - Undergraduate Directed Study**

(2–4)

Prerequisites: Consent of adviser and of an instructor to act as sponsor. Individual projects designed to reflect ability of student and to be a contribution to field of educational, informational, or cultural broadcasting. May be repeated to maximum of 8 units.

Television, Film and Theatre (Graduate)

Classified graduate standing is required for admission to all 500-level courses

- **TVFT 500 - Introduction to the Production / Performance Master of Fine Arts in Television, Film and Theatre**

(2)

Introduces the beginning student to the program's purpose, requirements, and design as well as theoretical, methodological and industry driven principles theories and practices.

- **TVFT 502 - Directing**

(4)

Critical examination of major theoretical approaches to directing theatre and film. Examination of the work of major theatre and film directors and contemporary directors. Also includes directing television.

- **TVFT 503A - Dramatic Structure I: Theatre**

(4)

Analysis of theatrical structure. Traditional and non-traditional approaches to script analysis. Analyzing scripted and nonscripted theatrical production. Simultaneously examines genre. Primarily western, also considers some non-western forms.

- **TVFT 503B - Dramatics Structure II: Film**

(4)

Prerequisite: TVFT 503A. Introduce students to feature film structure with special attention to character, scene, and story.

- **TVFT 503C - Dramatic Structure III: Television**

(4)

Prerequisites: TVFT 503A and TVFT 503B. Introduce students to the scene as a unit of film and television structure with special attention to character and story.

• **TVFT 508 - Media Arts, Theatre and Society**
(also listed as COMS 508)

(4)

Historical and current relationship between media arts, theatre and society. Study scholars and practitioners who address questions regarding contemporary roles, potentials and impacts of these arts and professions.

• **TVFT 509 - Entertainment Industry Practices**
(also listed as COMS 509)

(4)

Prerequisite: TA 500 or COMS 500. This course acquaints the student with the structure in the television, film and theatre Industries as well as the positions and responsibilities of those involved in development and production.

• **TVFT 510 - Studio and Field Operations**

(4)

Explores the human and technological needs of professional studio, field film and video production

• **TVFT 511 - Stage Operations**

(4)

Processes involved in stage, TV and film productions. Includes discussion of job titles and responsibilities, the chain of command, working with unions and communicating needs to cast, crew and designers.

• **TVFT 517 - Acting for the Stage**

(3)

An investigation of various approaches to acting on stage designed to give the student the skills required to act in the professional theatre.

• **TVFT 518 - Acting for Television**

(3)

Investigation of television acting techniques designed to give students the skills required to act in the professional television industry. Course will cover one and four-camera (sit-com), and commercials.

• **TVFT 519 - Acting for Film**

(3)

An investigation of film acting techniques designed to give the student the skills required to act in the professional film industry.

TVFT 521 - Directing for the Stage

(4)

A practical course on play directing, script analysis, blocking, auditions, casting, design concepts, scheduling and conducting rehearsals, communication techniques for artistic collaboration, and presentation of scene work.

• TVFT 522 - Single Camera Directing and Producing

(4)

This course focuses on the aesthetic, practical concerns, operational process, human and technological needs of professional single camera film and video production.

• TVFT 523 - Multiple Camera Television Production

(4)

A hands-on approach to the production of seven basic multiple camera television formats.

• TVFT 531A - Motion Picture Pre Production/Production

(4)

Narrative Film Production. Prepares students to work in the collaborative environment of the professional filmmaker and through the varying phases of preparation and production.

• TVFT 531B - Motion Picture Production/ Post Production

(4)

Prerequisite: TVFT 531 A. Narrative Film Production. This course will further prepare students to work in the collaborative environment of the professional filmmaker and through the varying phases of preparation and production.

• TVFT 533 - Advanced Problems in Multiple Camera Television Production

(4)

Prerequisite: TVFT 523. This course deals with four major problem scenes: Scenes with more than 3 characters, scenes of violence, scenes of passion, and scenes of eating.

• TVFT 535 - Graduate Cinematography

(4)

Explores the visual art of the motion picture images.

• TVFT 540 - Strategies and Safety in Grip and Electric Operations

(4)

Prerequisite: TVFT 500. The course explores effective strategies for the proper, safe and creative operations for television and motion picture applications of industry professional grip and lighting equipment.

- **TVFT 542 - Acting Studio**

(3)

Prerequisites: TVFT 517, 518, 519. Studio training in advanced acting with professionals in Los Angeles and/or with guest artists at CSULA or CSU Summer Arts.

- **TVFT 543A - Voice for Performers I**

(2)

The gradual accumulation of voice exercises from relaxation and breathing to a fully realized vocal warm up to prepare actors for performing. Emphasis on breathing, relaxation, and resonance.

- **TVFT 543B - Voice for Performers II**

(2)

Prerequisite: TVFT 543A. The gradual accumulation of voice exercises from relaxation and breathing to a fully realized vocal warm up to prepare actors for performing. Emphasis on articulation, diction, and pronunciation.

- **TVFT 543C - Voice for Performers III**

(2)

Prerequisites: TVFT 543A and 543B. The gradual accumulation of voice exercises from relaxation and breathing to a fully realized vocal warm up to prepare actors for performing. Emphasis on diction and dialects.

- **TVFT 544A - Movement for Performers I**

(2)

Ballet and the introduction of special skills from the Western tradition including workshops on fencing, social dance, fans, bows and curtsies, and the influence of costume on body movement.

- **TVFT 544B - Movement for Performers II**

(2)

Prerequisite: TVFT 544A. Modern dance and postmodern choreography including workshops on Alexander Technique, Feldenkrais Method, and Suzuki.

- **TVFT 544C - Movement for Performers III**

(2)

Prerequisites: TVFT 544 A and 544B. Viewpoints and improvisational approaches to theatre movement. Workshops and research in biomechanics, Lecoq, commedia dell'arte, Grotowski, and composition.

- **TVFT 545 - Scene Writing Lab**

(2)

The course will explore the art of writing scenes. Students will engage the study of scene through the practice, the critical screenings of films and theatrical scenes, staged scene clinics, and dramatic enactments.

- **TVFT 546A - MFA Project I**

(2)

Students choose to produce a theatre, multi-cam studio television or film style production. Between the three projects students must work in each medium.

- **TVFT 546B - MFA Project II**

(2)

Prerequisite: TVFT 546A. Students choose to produce a theatre, multi-cam studio television or film style production. Between the three projects students must work in each medium.

- **TVFT 547 - Story Development**

(4)

Feature film story development. Students will generate story ideas from different fictional and non-fictional sources, with attention to character, plot, and story structure. ", Department of Communication Studies"

Television, Film and Theatre (Graduate)

- **TVFT 548 - Creating Characters and Writing Dialogue**

(4)

Study and practice of character development and dialogue for film and television.

- **TVFT 549 - Playwriting**

(4)

Workshop in planning, preparing, and writing manuscripts for stage; emphasis on handle materials, play structure, characterization, and dialogue.

- **TVFT 550 - Genre Writing**

(4)

Focus on the history, structure, and development of a selected genre of narrative screenwriting including, but not limited to, Romantic Comedy, Comedy, Action, Thriller, and Horror.

- **TVFT 551 - TV Sitcom Writing**

(4)

Introduce students to the half-hour TV format with special attention to structure, scene, character, and story.

- **TVFT 552 - The Business of Writing**

(4)

The basics of the business of writing through lectures and discussion, providing strategies for marketing film and television screenplays.

- **TVFT 553 - Pitching Workshop**

(2)

Developing and maintaining the skills of pitching film ideas to agents, managers, producers, directors, and other industry representatives.

- **TVFT 554 - Selected Topics in Entertainment Industry**

(1-4)

Prerequisite: Varies with topics; see Schedule of Classes for specific prerequisites or instructor consent. Intensive study of selected topics in the Master of Fine Arts: Television, Film and Theatre. May be repeated to maximum of 8 units

- **TVFT 555 - Film Editing for Writers**

(4)

The study and practice of the basics of film editing, interpreting the screenplay through the film and understanding the writer's vision.

- **TVFT 556 - Directing Workshop for Writers**

(4)

Teach screenwriting students how the director interprets their work. Writers will learn the fundamentals of directing for the camera, and experience how their own writing translates visually and experientially.

- **TVFT 563 - The Business of Acting**

(4)

Prepare actors for the business aspects of their careers: casting protocol, head shots, marketing a career, talent representation, professional behavior and unions.

- **TVFT 579 - The Business of Production**

(4)

Prerequisite or Corequisite: TVFT 500. Course acquaints the student with the business of media industries as well as the positions, responsibilities, and best practices of those employed by the media.

- **TVFT 580 - Collaboration Workshop**

(2)

Explores how artists from theatre, film and television collaborate. Students will also apply these techniques to current projects they are completing. May be repeated up to 6 units.

- **TVFT 581 - Entertainment Arts Internship**

(2)

Practical work in professional film, television, and theatre settings under supervision of professionals in internships; not available to non-program students. Includes career counseling, resume workshops, practice interviewing networking. 200 internship hours are required, may be fulfilled in a single quarter or over two quarters at 100 internship hours per 1 unit.

• **TVFT 598 - MFA Directed Study**

(1–6)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field (performance, production, dramatic writing); regular conferences with sponsor. May be repeated to maximum of 6 units.

• **TVFT 599 - MFA Culmination Project**

(4)

Prerequisites: TVFT 546A and TVFT 546B. Culminating project is required of all students in the Television, Film and Theatre MFA program. Students must choose to produce a theatre, multi-cam studio television or film style production.

Theatre Arts (Undergraduate)

All 400-level courses in Theatre Arts (TA) may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: TA 499.

• **TA 100 - Play Practicum**

(1)

Active participation in University-sponsored dramatic activities. Assignments may include acting, directing assistance, lighting, scenery, costuming, props, and house management. May be repeated to maximum of 4 units.

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HELP

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Theatre Arts (Undergraduate)

All 400-level courses in Theatre Arts (TA) may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: TA 499.

• TA 141 - Acting Fundamentals: Games and Exercises

(3)

Basic principles and techniques of acting. Exploration of creative processes through theatre games and improvisational exercises. Additional hours required.

• TA 142 - Acting Fundamentals: Character Study

(3)

Prerequisite: TA 141. Basic principles and techniques of acting. Building a character through textual analysis and practical work based on text. Additional hours required.

• TA 143 - Acting Fundamentals: Scene Study

(3)

Prerequisite: TA 142. Basic principles and techniques of acting. Analysis of scene structure, use of subtext, actions, and objectives. Performance of selected scenes. Additional hours required.

• TA 152 - Analysis of Drama and Theatre

(4)

Principles of drama and theatre; social relevance of theatre; dramatic structures and styles of diverse forms of theatre; practical theatre exercises; evaluation and appreciation of plays in performance.

*C-ID THTR 111 and THTR 114

*The University course listed above articulates with any California Community College (CCC) course that is approved by the C-ID program and given the corresponding "C-ID Course" designation listed here. The articulation is one-way articulation, meaning the approved community college course will articulate for the indicated course credit at the four-year university. Articulation does NOT apply from the four-year institution to the community college or between the four-year institutions.

GE C1

• **TA 154L - Selected Topics in Theatre Arts**

(1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in Theatre Arts as announced in Schedule of Classes.

• **TA 154P - Selected Topics in Theatre Arts**

(1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in Theatre Arts as announced in Schedule of Classes.

• **TA 210 - Body and Identity in Dance, Theatre, Film**
(also listed as TVF and DANC 210)

(4)

The aesthetic bases of dance, theatre and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class.

GE C5

• **TA 240 - Film, Novel, Theatre**
(also listed as TVF and ENGL 240)

(4)

Prerequisite: Completion of ENGL 101. An exploration of film, theatre, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact. GE C5

• **TA 276 - Introduction to Play Writing**
(also listed as ENGL 276)

(4)

Prerequisite: ENGL 200A or 200B or 200C or TAD 101. Collaborative approach to writing for the stage; emphasis on writing theory and techniques; introduction to dramaturgy, directing, literary management, and staged reading.

• **TA 300 - Production Support**

(1–2)

Technical preparation/presentation of University-sponsored production. Transfer majors must complete at least 6 units. Non majors must enroll whenever cast in department productions. Meets more than 6 hours per week. May be repeated to a maximum of 24 units.

• **TA 301 - Creative Dramatics**

(4)

Philosophies and techniques of creative dramatics. Emphasis on improvisation, play making, pantomime, ongoing drama, story dramatization, role playing; selected projects and demonstrations.

• **TA 310 - Play Performance**

(2)

Prerequisite: Admission by audition only. Detailed work on a major production with rehearsal and performance requirements. Enrollment required for performance participation. Meets more than 6 hours each week. May be repeated to maximum of 12 units.

• **TA 311 - Development of World Theatre I**

(4)

Significant developments in world dramatic literature and theatre from origins through 17th century with emphasis on classical Greece/Rome, Medieval, Sanskrit, Renaissance Italy, Spain, France and England, and pre-Columbian American.

• **TA 312 - Development of World Theatre II**

(4)

Prerequisite: TAD majors must complete TA 311 or have instructor consent. Significant developments in world dramatic literature and theatre from the 17th to 20th century; emphasis on traditional Japanese and Chinese, 17th through 19th century romanticism, realism, early revolts against realism.

• **TA 313 - Development of World Theatre III**

(4)

Prerequisite: TAD majors must complete TA 312 or have instructor consent. Significant developments in world dramatic literature and theatre in the 20th century with emphasis on German expressionism, social realism, fascist Europe, absurdism, and contemporary theatre forms and artists.

• **TA 314 - Staging Violence in World Theatre**

(4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Examines representations of violence on stage in various cultures and eras of world theatre from live, graphic violence, to violence beautifully or horribly described. Studies theatre in its social context.

GE Theme B

• **TA 322 - Theatrical Makeup**

(3)

Prerequisite: Instructor consent. Basic concepts and skills in makeup for stage, television, and cinema; straight and corrective makeup; old age and character modeling; introduction to facial prosthetics; basic techniques in building facial hair pieces. Laboratory hours required.

• **TA 380 - Emotion in Theatre and Film**
(also listed as TVF 380)

(4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block C. Analysis of emotion as motivational force in theatre and film. Emotion as critical factor in performance, narrative development and the essential mediating component compelling audiences to the theatrical/cinematic experience.

GE Theme E

- **TA 400 - Creative Drama for the Elementary Classroom**

(3)

Exploration/integration of artistic perception, creative expression, historical/cultural contexts, aesthetic valuing as components of teaching/learning through drama. Meets 4 hours weekly.

- **TA 401 - Advanced Creative Dramatics**

(4)

Prerequisite: TA 301. Exploration and application of advanced techniques and concepts of informal drama; special emphasis on European approaches to dramatics; practical experience through selected projects.

- **TA 402 - Children's Theatre Tour**

(3)

Prerequisite: Instructor consent, completion of lower division requirements, TA 301, TAD 339, TAD majors must be junior or senior standing. Participation as actors, designers, stage managers, and drama leaders in touring children's theatre productions; theatre with special populations. Additional hours required. May be repeated to maximum of 16 units.

- **TA 426 - Costume Design**

(3)

Prerequisite: TAD 133. Principles of costume design, and rendering techniques for costumes; Historical survey of costumes from ancient to modern times. Costume/ character analysis and costume plot. Additional hours required.

- **TA 427 - Advanced Costume Design**

(3)

Prerequisite: TA 426. Advanced design problems and application of projects in costume design. Advanced research analysis, rendering and construction techniques. Additional hours required.

- **TA 431 - Scenic Design**

(3)

Prerequisites: TAD 131. Basic principles of scenic design, models, sketches, computer drafting, and perspective rendering. Basics of elements of design and history of styles. Additional hours required.

- **TA 432 - Advanced Scenic Design**

(3)

Prerequisite: TAD 431. Advanced design problems and application of advanced scenic rendering, drafting, and model making. Additional hours required.

- **TA 434 - Lighting Design**

(3)

Prerequisites: TAD 132. Basic principles of lighting design; lighting research and concepts, study and implementation of angle, photometrics, computer-aided drafting, light plots, and cueing. Additional hours required.

- **TA 435 - Advanced Lighting Design**

(3)

Prerequisite: TA 434. Advanced design problems and application of lighting design concepts, photometrics, computer drafting, cueing, and overall design execution. Additional hours required.

- **TA 442 - Acting Studio II: Material from the Early Realist tradition**

(3)

Prerequisites: TA 341–343. Organic approach to the physical and emotional demands of acting. Admission by audition only. Each course may be repeated to maximum of 6 units.

- **TA 445 - Principles of Directing I**

(3)

Prerequisites: Completion of lower division requirements, TA 313 and TAD 339; or graduate standing. Introduction to the process of directing plays: script analysis, blocking, auditions, casting, design concepts, scheduling and conducting rehearsals, communication techniques for artistic collaboration, and presentation of scenework. Additional hours required.

- **TA 446 - Principles of Directing II**

(3)

Prerequisites: Completion of lower division requirements, TAD 339, 439, and TA 445; or graduate standing. Advanced techniques of stage directing; developing of concept, style, and approaches to directing classical, modern, and nonrealistic plays; collaborative approaches working with actors and designers; scene presentations. Additional hours required.

- **TA 454L - Selected Topics in Theatre Arts**

(1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in theatre arts as announced in Schedule of Classes.

- **TA 454P - Selected Topics in Theatre Arts**

(1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in theatre arts as announced in Schedule of Classes.

- **TA 459 - Hispanic Play Production
(also listed as SPAN 459)**

(3–4)

Prerequisite: Intermediate Spanish. Introduction to major forms of Spanish drama; mechanics and production of a major work of Hispanic theatre. May be repeated to total of 12 units, of which maximum of 4 may apply toward major.

- **TA 463 - Shakespeare as Living Theatre**

(4)

Prerequisites: TA 152; ENGL 417. History and theories involved in bringing Shakespeare's drama to life on stage. Analysis of major plays in relation to their potential production in contemporary theatre.

• **TA 475 - Dramaturgy**

(4)

Prerequisites: TA 311, 312, 313; or consent of the instructor. The theory and practice of process, production, and institutional dramaturgy. Practical exercises with directors and playwrights.

• **TA 476 - Play Writing**

(4)

Prerequisites: TAD majors must have completed all lower division requirements, TA 313 or instructor consent. Workshop in planning, preparing, and writing manuscripts for stage; emphasis on handling dramatic materials, play structure, characterization, and appropriate dialogue. May be repeated to a maximum of 8 units for credit.

• **TA 480 - Cinema as a Dramatic Art**

(4)

Comparative analysis of dramatic media, consideration of media as art forms; emphasis on "Great Films" series. May be repeated to a maximum of 8 units with instructor consent.

• **TA 489 - Advanced Creative Workshop**

(2)

Prerequisite: Instructor consent. Active participation in student-generated, University-sponsored dramatic activities. Assignments may include acting, directing, playwriting, dramaturgy, design, choreography, or stage management. May be repeated a maximum of 6 units.

• **TA 499 - Undergraduate Directed Study**

(1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor prior to registration; progress meetings held regularly and final report submitted. May be repeated to a maximum of 12 units for credit.

Theatre Arts (Graduate)

All 400-level courses in Theatre Arts (TA) may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: TA 499.

Classified graduate standing is required for admission to all 500-level courses.

• **TA 510 - Projects in Teaching Theatre, Performance and Dance**

(1- 4)

Planned preparation, ongoing supervision and critical evaluation of undergraduate theatre and dance courses taught by current graduate students. May be repeated to a maximum of 8 units.

• **TA 541 - Seminar: Theories of Acting**

(4)

Prerequisite: At least one upper division course in acting or directing. Major theories of acting from Diderot to present with special emphasis on origins, esthetics, and psychology of acting.

- **TA 594 - Field Work/Internship Drama Therapy**

(1–4)

Prerequisite: TA 478. Independent supervised field experience in drama therapy internships with individuals, groups, and families. May be repeated to maximum of 16 units.

- **TA 595 - Graduate Performance**

(1–4)

Prerequisite: Consent of graduate adviser. Demonstration of graduate level proficiency in a major performance situation; research or analytical written project directly related to performance. May be repeated to maximum of 4 units.

- **TA 596 - Comprehensive Examination**

(0)

See the Comprehensive Examination in the requirements for the (Masters) Degree section of this chapter.

- **TA 598 - Graduate Directed Study**

(1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

- **TA 599 - Thesis or Project**

(1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. May be repeated to maximum of 6 units. Graded CR/NC.

- **TAD 511 - Seminar: Special Studies in Performance History**

(4)

Significant era or movement in performance history. Specific subject determined by student needs and interests. May be repeated to a maximum of 8 units for credit.

Theatre Arts and Dance (Undergraduate)

- **TAD 101 - Introduction to Theatre Arts and Dance**

(1)

Introduction to the fundamentals of performance training in theatre arts and dance in the university. Portfolio preparation. Additional hours required.

- **TAD 131 - Stagecraft - Scenery and Properties**

(3)

Technical theatre practices developed in lectures, demonstrations, and workshop experience. Basic tools and techniques of scenery construction and props; drafting; reading ground plans; scenic painting techniques. Additional hours required.

- **TAD 132 - Stagecraft - Lighting and Sound**

(3)

Technical theatre practices developed in lectures, demonstrations, and workshop experience; basic stage lighting, and sound technology and editing; electricity, color, hang/focus, and basic computer drafting techniques. Additional hours required.

- **TAD 133 - Stagecraft - Costume Crafts**

(3)

Technical theatre practices developed through lectures, demonstrations, and workshop experience; basic hand and machine stitches, construction techniques, and the costume plot, and fabrication of costume accessories. Additional hours required.

- **TAD 149 - Breath, Movement, Voice I**

(3)

Fundamentals of vocal training for the performer with an emphasis on effective breathing techniques. Yoga, centering and alignment; awareness of and development of correct vocal production and placement; physical exercise.

- **TAD 316 - Theatre and Dance in 20th Century Urban Contexts**

(4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block C. Examines prominent 21st century dance and theatre artists, companies and venues in the context of their urban environments. Field work in Los Angeles includes visiting artists and attending local performances.

GE Theme D

- **TAD 339 - Stage Management**

(3)

Prerequisites: TAD 132-133 or equivalent. Assembling prompt book, blocking and movement notation, and organization and communication procedures; application to production; detailing the process from preproduction and rehearsals through performance to post production. Additional hours required.

- **TAD 340 - Management Practical**

2

Prerequisites: TAD 339 and instructor approval. Application of Management fundamentals through practical assignment on Department or College production.

- **TAD 348 - Breath, Movement, Voice II**

(3)

Prerequisites for TAD majors: TAD 133, TAD 149, TA 143 or instructor consent. Development of movement as well as techniques in physicalization, composition and evaluation will be investigated. May be repeated to a maximum of 9 units.

- **TAD 390 - Performance Research and Writing**

(4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Advanced research and writing practice with emphasis on critical and mechanical skills appropriate for theatre arts and dance majors.

- **TAD 439 - Arts Management**

(4)

Prerequisites: Completion of lower division requirements, or graduate standing. Historical evolution, theory development and practice of arts administration and theatre management. Additional hours required.

- **TAD 450 - Design Practicum**

(2)

Prerequisites: TA426, TA431, or TA434 and instructor consent. Application of design fundamentals through practical assignment on Department or College production with instructor approval.

- **TAD 467 - Theory and Method in Performance Studies**
(also listed as COMM 467)

(4)

Prerequisite: Upper division course in COMM, TA or DANC. Introduction to major theoretical perspectives in performance studies and to key methodologies for investigating performance in/as culture. Central concepts include social drama and performance ethnography.

- **TAD 468 - Performance and Social Change**
(also listed as COMM 468)

(4)

Prerequisite: COMM 367 or 467 or upper division theory course in TA, DANC or rhetoric. Aesthetic, pedagogical underpinnings of performance and social change. Relationship between performance and liberation in avant-garde works and across cultures. Theoretical and pragmatic concerns as these emerge in production.

- **TAD 486 - Cross Cultural Approaches to Social Performance**

(3)

Prerequisites: TAD 467, 468. Crosscultural applications of improvisation experimental performance and playback techniques in the development of social action activities in community and educational setting. Fulfills community performance practicum requirement.

Theatre Arts and Dance (Graduate)

- **TAD 500 - Graduate Research in Performance**

(4)

Introduction to research techniques, critical approaches, play and dance analysis, and performance criticism. Survey of current journals

- **TAD 512 - Seminar in World Performance**

(4 Units)

An overview of the theory and history about world dance, theatre, and performance traditions in Africa, South and North America, the Caribbean, Asia, and the Pacific Islands.

- **TAD 570 - Seminar: Experimental Theatre Performance**

(4)

Significant theatrical, dramatic, dance, and performance theorists and practitioners who have influenced the search for experimental forms in 20TH and 21ST century theatre arts and dance.

- **TAD 574 - Theories in Performance**

(4)

Theoretical approaches to, and critiques of, identity, meaning, representation and power as these emerge in and affect theatre and dance studies. Includes study of primary and secondary sources in dance and theatre.

University Courses (Undergraduate)

NOTE: Courses that are designated University (UNIV) frequently are interdisciplinary in nature. Some are limited to certain categories of students. Cooperative Education (UNIV 298, 398, and 498) and CPEL (UNIV 295) courses appear in this catalog under the title UNIV, but appear in the Schedule of Classes with the course abbreviations used by the various departments, divisions and schools that offer them.

- **UNIV 054 - Special Topics**

(1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in Schedule of Classes. May be repeated for credit as topic changes. No credit toward baccalaureate.

- **UNIV 060 - Study Group**

(1)

Corequisite: Associated course. Lecture methods and study skills development including reading comprehension, critical analysis of course content, time and task management, notetaking, and test preparation.

- **UNIV 101 - Introduction to Higher Education for Undeclared Majors: Living an Examined Life**

(4)

Orientation to thinking strategies applicable to lifelong problem solving in academic, social, and personal life. Introduces critical thinking, information literacy, university resources, and academic planning for student success. Graded ABC/NC

Freshman IHE and Block E

- **UNIV 154 - Special Topics**

(1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in Schedule of Classes. May be repeated for credit as topic changes.

- **UNIV 254 - Special Topics**

(1–4)

Prerequisite: Varies with specific topic. Topics of special interest as announced in Schedule of Classes. Graded CR/NC.

- **UNIV 295 - Credit for Prior Experiential Learning**

(1–4)

Prerequisite: At least 45 units in residence but not more than 165 total units completed. Approval for registration must be obtained through University Undergraduate Studies office. Preparation of materials and portfolios documenting prior college-level learning acquired in nonacademic settings. Upon successful completion, 1–4 resident units will be awarded. In addition, 1–8 units for nongraded, nonresident credit may be awarded for prior learning. These units may be upper or lower division and may apply toward the major with major department approval. Graded CR/NC.

- **UNIV 298 - Preparation for Cooperative Education**

(2)

Techniques of relating major to internship (work experience) through discipline-based research; documentation of transferable skills through resumes, interviews, and other reporting techniques appropriate to academic concentration; designed to enhance internship performance. Graded CR/NC.

- **UNIV 301 - Transition to CAL STATE LA for Undeclared Majors**

(2)

Exploration of skills and resources designed to help transfer students attain degree objectives. This course is especially designed for undergraduate transfer students who have not yet declared a major and meets University requirements for an Introduction to Higher Education course for transfer students. Graded ABC/NC, NIS account required.

- **UNIV 354 - Special Topics**

(1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in Schedule of Classes. May be repeated for credit as topic changes.

- **UNIV 398 - Cooperative Education**

(1–4)

Prerequisites: Courses appropriate to the work experience: approval by major department Cooperative Education coordinator. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded CR/NC.

- **UNIV 399 - Cooperative Education Honors**

(1–4)

In addition to prerequisites for UNIV 398, the prerequisites are UNIV 298 and eligibility to participate in a university or departmental honors program. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded CR/NC.

- **UNIV 400 - Writing Proficiency Examination**

(0)

See Upper Division Writing Requirements in the Undergraduate Studies: General Information Chapter.

- **UNIV 401 - Writing Proficiency**

(4)

Prerequisites: ENGL 102* and at least one attempt of the Writing Proficiency Exam (WPE). Development of a writing portfolio required to satisfy Graduation Writing Assessment Requirement (GWAR)/WPE. Instruction to assist student in achieving satisfactory levels of writing performance. Graded CR/NC. *Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

- **UNIV 454 - Special Topics**

(1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in Schedule of Classes. May be repeated for credit as topic changes.

- **UNIV 498 - Advanced Cooperative Education**

(1–4)

Prerequisites: Completion of senior level courses appropriate to experience; approval by major department Cooperative Education coordinator. Participation in work experience integrated with academic program; assignments arranged individually in advance through coordinator. Minimum of 10 hours per week required for each unit. Students in departments with graduate Cooperative Education programs may apply maximum of 4 units toward graduate degree program. Graded CR/NC.

University Graduate Courses

- **UNIV 599 - Thesis or Project for Interdisciplinary Studies Master's**

(1–8)

Prerequisites: Advancement to candidacy, formal approval of topic by advisory committee. Independent study resulting in a thesis or project. Oral examination on thesis required. Open to Interdisciplinary Studies Master's students only.

- **UNIV 900 - Thesis Research**

(0)

Courses in the 900 series (UNIV 900) are open only to graduate students who have previously enrolled in all allowable research units (597) and are not enrolled in any other credit-bearing courses or thesis or project units (599), but will use University facilities or consult with faculty.

Urban Analysis (Undergraduate)

- **URBA 180 - The Urban World**

(4)

Worldwide issues relating to the physical, technological, economic, political, historical, sociological and environmental characteristics of urban areas.

GE D

• **URBA 409 - U.S. Latinos, Culture, and Global Cities**
(also listed as CHS 409)

(4)

Examination of Latino demographic growth and the impact it is having on the culture and design of major American cities and its potential for social and political change

Urban Learning (Undergraduate)

• **ULRN 460 - Assessment and Learning**

(4)

Basic principles and applications of educational assessment. Topics include learning goals and objectives, multidimensional assessment strategies, including formal (e.g., standardized tests) and informal (e.g., rubrics), measures, use of data to guide instruction, and communicate results.

• **ULRN 461 - Learning and Critical Thinking**

(4)

Perspectives and practices to integrate inquiry, problemsolving, critical thinking, metacognition, and self-regulation into urban learning settings. Views of learning, intelligence and their growth through multiple learning styles are also examined.

• **ULRN 462 - The Role of Play in Learning**

(4)

Prerequisite: California Commission on Teacher Credentialing Certificate of Clearance or California Child Development permit. Dynamics of the role of group and individual play in children's learning. Emphasis on understanding human development, behavior, and adult facilitation of learning. Observation in early education settings required.

• **ULRN 463 - Literacy and the Urban Community**

(4)

Prerequisite: California Commission on Teacher Credentialing Certificate of Clearance or California Child Development permit. Basic concepts of emerging literacy in the urban community: family literacy, language acquisition, phonemic awareness and techniques for integrating early reading, writing, listening, and speaking skills. Field site application through communitybased experiences and service learning. Lecture 2 hours, activity 2 hours.

• **ULRN 464 - Contemporary Issues in Knowledge, Culture and Learning**

(4)

Theoretical approaches to understanding the construction of knowledge in and through culture. Contemporary Issues and problems in a diverse learning community.

• **ULRN 469 - Senior Seminar: Reflection, Assessment, and Writing**

(4 units)

Capstone activities for students in urban teaming major. Involves papers, reflections, and final project integrating the outcomes of the teaming experience.

Women's and Gender Studies (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

- **WOMN 200 - Introduction to Women's and Gender Studies**

(4)

Theoretical foundation for the fields of women's studies and gender studies; introduction to feminist theories; interdisciplinary perspectives on gender, sex, and power.

- **WOMN 203 - Gender and Race in the United States**

(4)

Examines from an interdisciplinary perspective how concepts of race and gender intersect with each other in lived experience, and in relation to ethnicity, class, gender, and sexuality, and how other social categories shape the lives of women of color in the U.S., including such ethnic groups as African-American, Asian Americans, Chicanas/Latinas, and Native-Americans.

GE D ; Approved diversity course

- **WOMN 400 - Women's and Gender Studies: Theories and Methods**

(4)

Prerequisites: ENGL 102, WOMN 200, upper division standing. Advanced interdisciplinary theories and methods in Women's and Gender Studies and the history of the field.

- **WOMN 410 - Chicana and Mexican Women Writers**
(also listed as CHS 413 and ML 410)

(4)

Prerequisite: ENGL 305 or SPAN 300A or equivalent. Reading knowledge of Spanish, class discussions and instruction in English. Comparative study of contemporary Mexican and Chicana female writers with a focus on gender and sexuality issues, and their particular historical and cultural context.

- **WOMN 413 - Issues in Feminist Philosophy**
(Also listed as PHIL 413)

(4)

Prerequisite: one PHIL course. Central philosophical concepts and issues investigated from feminist perspectives for example, topics in epistemology, philosophy of science, ethics, and personal identity. May be repeated to a maximum of 8 units as topics vary.

- **WOMN 416 - Feminist Theories and Contemporary Society**
(Also listed as SOC 416)

(4)

Examination of the various feminist theories, all of which focus on some aspect of gender inequality. Implications of each theory and their applications to contemporary society are also discussed.

- **WOMN 448 - Sexualities and Gender Diversity in Global Perspective**
(also listed as ANTH 448)

(4)

Prerequisite: ANTH 250 or consent of the instructor. This course examines the diversity of forms of sexuality and their relationship to gender constructs around the world, with a focus on non-Western societies

• **WOMN 454 - Special Topics in Women's Studies**

(4)

Prerequisites: As needed for specific topic. Topics of special interest in women's studies with variable content announced in Schedule of Classes. May be repeated to total of 8 units as subject matter changes.

• **WOMN 465 - Gender, Sexuality, and Transnational Migration** (also listed as CHS 465 and LAS 465)

(4)

Explores international migration through the lens of gender and sexuality. Interdisciplinary examination of perspectives on socio-economic and legal issues affecting the lives, identities, and narratives of transnational (im)migrants.

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Women's and Gender Studies (Undergraduate)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

- **WOMN 482 - Latin American Women's Movements**
(also listed as CHS 482 and LAS 482)

(4)

Examines Latin American women's movements and feminist organizing in the U.S., Mexico, Central America, South America, and the Caribbean.

- **WOMN 484 - Chicana/Latina Narratives and Community History**

(4)

Students learn to conduct oral history interviews, and analyze the narratives told by Chicana and Latina women about the communities in which they have lived, worked, and participated.

- **WOMN 499 - Undergraduate Directed Study**

(1-8)

Prerequisite: Project selected in conference with sponsor/instructor before registration, progress meetings held regularly, and final report submitted. May be repeated to total of 8 units as subject matter changes.

Women's and Gender Studies (Graduate)

- **WOMN 500 - Integrative Seminar in the Study of Women, Genders, and Sexualities**

(4)

Prerequisite: Graduate or Post-Baccalaureate standing. Theoretical and methodological issues in the analysis of women, genders and sexualities and intersections with race/ethnicity, class, and nation. Applications of frameworks from these fields to research and to work with communities.

• **YAA 290 - Introduction to Youth Agency Administration**

(4)

History, philosophy, programs, and organization of the major national voluntary youth service agencies from a professional management perspective; role of the professional executive; the nature of volunteerism. Required field visits.

• **YAA 467 - The Third Sector and Nonprofit Organizations**
(also listed as POLS 467)

(4)

Starting and managing nonprofit enterprises; differences between public, nonprofit, and for-profit organizations; nature and scope of the third sector; grant writing project.

• **YAA 490 - Volunteer Management and Fund-Raising**

(4)

Prerequisite: YAA 290. Development of executive skills in managing volunteers and raising funds for youth-serving agencies; sources and techniques of financial development or community agencies; management of voluntary staff and directorial boards.

• **YAA 495 - Directed Field Experience**

(4)

Prerequisites: YAA 290, YAA 467, five or more YAA program interdisciplinary courses completed, consent of instructor and agency acceptance. Student placement to provide experience under supervision in a youth agency. Individual evaluative conferences. Graded CR/NC only. If student receives a "NC" grade, they may repeat the entire fieldwork/internship only once at another agency.

• **YAA 499 - Undergraduate Directed Study**

(1–4)

Prerequisites: YAA 290, upper division standing, consent of a faculty sponsor, approval of program coordinator, approval of proposed project prior to registration, ability to assume responsibility for independent research and analysis. Project selected in conference with sponsor; progress meetings held regularly and a final report submitted. May be repeated to maximum of 16 units.



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Emeriti Faculty

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Adnan M Abdeen (1986–2003)	Professor of Accounting
T Jean Adenika-Morrow (1992-2003)	Professor of Education
Kathryn L Alesandrini (1984-2006)	Professor of Education
John Allswang (1968-2000)	Professor of History
Burton L Alperson (1974-2002)	Professor of Psychology
J Theodore Anagnoson (1983-2007)	Professor of Political Science
E. Frederick Anderson (1991-2011)	Professor of Social Work
Kenneth Anderson (1970–2002)	Professor of Microbiology
Thomas Annese (1961–1992)	Professor of Philosophy
Ratna Appadurai (1969–1987)	Professor of Education
Ralph Arroyo (1978–2006)	Professor of Education
Walter M Askin (1956–1992)	Professor of Art
Alfred F Michael Atlee (1965–1986)	Professor of Spanish

B

Marlohn Balas (1965–2000)	Professor of Nursing
Jerry Reed Ball (1989-1992)	Professor of Physical Education
Frank R Balle (1992-1998)	Professor of Civil Engineering
Cornelia Balogh (1962–1989)	Associate Librarian
Richard S Balvin (1956–1990)	Professor of Psychology
Betty Bamberg (1996–2006)	Professor of English
Evelyn Malkin Barclay (1957–1969)	Professor of Nursing
Ann Barbour (1998–2008)	Professor of Education
Francisco E. Balderrama (1984-2012)	Professor of Chicano Studies and History
Butrus Basmaji (1969–2006)	Professor of Mathematics
Sharon Bassett (1967–2001)	Professor of English
Francis H Baxter (1950–1978)	Professor of Music
Linda Beamer (1991–2005)	Professor of Marketing
Abdallah J Beddawi (1963-2003)	Professor of French
William Belan (1982-2010)	Professor of Music
Isaac Berman (1965–1988)	Professor of Education
Gary A Best (1968-2002)	Professor of Education
Shirley J Better (1969–2001)	Professor of Social Work
V Patricia Beyrer (1973–1990)	Professor of Education
Anjan K Bhaumik (1966-2005)	Professor of Civil Engineering
Beverly R Bigler (1973–2003)	Professor of Nursing
Nancy J Billett (1975–1985)	Professor of Business Education and Office Administration
David Bilovsky (1956–1979)	Professor of Education
Ann Bingham-Newman (1974–2006)	Professor of Education
Sharon Bishop (1967–2004)	Professor of Philosophy
Wayne Bishop (1971–2010)	Professor of Mathematics
Evan E Black (1983–1991)	Librarian
Henry Etta Brown Blackmon (1968–1986)	Professor of Nursing

Robert E Blackmon (1960–1986)	Professor of Journalism
Carlton Blanton (1970-1999)	Professor of Health Science
Keith R Blunt (1967–1994)	Professor of Management
James A Bolton (1969-1997)	Professor of Education
Charles E Borman (1960-1992)	Professor of Art
James D Boulgarides (1977-2003)	Professor of Marketing
George B Bouse (1959-1994)	Professor of Electrical Engineering
Roger R Bowers (1972–2007)	Professor of Biological Sciences
Barbara Ann Boyer (1989-2010)	Professor of Art
Roger D Brandt (1962-1998)	Professor of Electrical Engineering
Donald W Bray (1961-1997)	Professor of Political Science
Peter A Brier (1972-1998)	Professor of English
Charles E Brinkley (1961–1991)	Librarian
Allen P Bristow (1959–1983)	Professor of Criminal Justice
Helen Brocklehurst (1960–1971)	Counselor and Associate Professor of Education
Costello Brown (1969–2005)	Professor of Chemistry
Marilyn Buccellati (1973–2003)	Professor of Art
Millie Burnett (1978-1998)	Professor of Music
Richard Dean Burns (1960–1992)	Professor of History
Donald R Burrill (1962–1992)	Professor of Philosophy
Stanley M Burstein (1968-2004)	Chair and Professor of History
Butrus G Basmaji (1969–2005)	Professor of Mathematics
H Randall Butler (1954–1985)	Associate University Librarian
Jack Butler (1988-2010)	Professor of Art

C

Herminia G Cadenas (1990-2004)	Professor of Education
Naomi J Caiden (1993 - 2009)	Professor of Political Science
Randy M Caine (1998–2008)	Professor of Nursing
Laura Calderon (1993-2012)	Professor of Nutritional Science
Robert Bascom Callahan (1960–1983)	Professor of Political Science
Evelyn Ruiz Calvillo (1990–2010)	Professor of Nursing
Giorgio Canarella (1973–2007)	Professor of Economics and Statistics
Jack S. K. Chang (1985-2013)	Professor of Finance and Law
Brian Capon (1961–1992)	Professor of Biology
Robert Carr (1964-1999)	Professor of Physics
E Dale Carter (1966-1997)	Professor of Spanish
Phillip L Carter (1970–1988)	Associate Professor of Social Work
Joseph Casanova, Jr (1961-1994)	Professor of Chemistry
Barbara S Case (1973-2002)	Reference Librarian
Susan B Cash (1991–2009)	Associate Vice President, Academic Affairs and Art
Marshall L Cates (1971-2004)	Professor of Mathematics
Paul L Chabot (1970-2004)	Professor of Mathematics
Berken Chang (1969-1996)	Professor of Physics
Emily C Chang (1959–1983)	Professor of Accounting
May E Chin (1975–1998)	Professor of Communication Disorders
Patricia A Chin (1989–2008)	Professor of Nursing
Doris C Ching (1962–1991)	Professor of Education
Philip C Chinn (1988–2000)	Professor of Education
Joseph A Chrzanowski (1969-2001)	Professor of Spanish
Barbara J Clark (1968–2000)	Professor of Education
Lawrence Clark (1960-1992)	Professor of Business Law
John L Cleman (1971–2007)	Professor of English
Nancy Cobb (1965- 2003)	Professor of Psychology
Bernard Codner (1955-2002)	Professor of Marketing
Harold L Cohen (1969-2000)	Professor of Physics
Irving J Cohen (1959–1988)	Associate Librarian
Neil A Cohen (1976–2002)	Professor of Social Work
William A Cohen (1979–2002)	Professor of Marketing
Ivan P Colburn (1964–1990)	Professor of Geology
William M Cole (1964–1992)	Professor of Safety Studies
Charles Coleman (1968-2000)	Professor of Physics
Alan A Colville (1962-1996)	Professor of Geology

Mary Conroy (1969–2000)	Professor of Physical Education
Webster E Cotton (1966-1997)	Professor of Education
Alan N Crawford (1969-2002)	Professor of Education
Daniel Crecelius (1964–2001)	Professor of History
Theodore J Crovello (1987-2004)	Dean of Graduate Studies and Research and Professor of Biological Sciences
Cheryl A. Cruz (1992-2013)	Professor of Accounting
Douglas L Currell (1957–1991)	Professor of Chemistry
Ivan N Cury (1990-2006)	Professor of Broadcasting

D

John A Dahl (1955–1983)	Professor of Education
Saralyn R Daly (1962–1988)	Professor of English
Peter Marc Damien (1972 -1992)	Professor of Art
William D Darrough (1973-2002)	Professor of Sociology
Shirlee D Davis (1967-1992)	Professor of Education
Terry E Davis (1968-1999)	Professor of Geology
Bruce Dayton (1965–1980)	Professor of Physics
Phoebe K Dea (1976-1996)	Professor of Chemistry
Marion V Dearman (1971-1992)	Professor of Sociology
Louis C De Armond (1950-1979)	Professor of History
Cameron Scott Deeds (1951–1985)	Professor of Physical Education
John H DeHardt (1961-1992)	Professor of Mathematics
Patricia A Delaney (1962-1994)	Professor of Recreation
Earl W Denny (1959–1983)	Associate Dean, School of Education, and Professor of Education
Donald O Dewey (1962-1996)	Dean, School of Natural and Social Sciences, and Professor of History
Wachtang Djobadze (1968–1988)	Professor of Art
Cortland C Doan (1965–1989)	Professor of Technology
Jim D Donohoo (1981–2003)	Professor of Accounting
Robert L Douglass (1951–1987)	Professor of Communication Disorders
Daniel Douke (1982–2003)	Professor of Art
Domnita Dumitrescu (1987-2011)	Professor of Spanish
Pamela Dunne (1974-2010)	Professor of Theatre Arts
Eugene P Dvorin (1958-1992)	Professor of Political Science

E

Annette Ehrlich (1969-1994)	Professor of Psychology
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Norman L Ellenberg (1969-1991)	Professor of Education
Patricia Wright Ellis (1970–1986)	Professor of Family Studies and Consumer Sciences
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Stephanie Evans (1987-2012)	Professor of Educaton
Robert H Ewald (1957–1986)	Professor of Anthropology

F

Neda S Fabris (1979-2008)	Professor of Mechanical Engineering
Linda Fahey (1976-1999)	Professor of Nursing
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Sarah P Farnham (1971-1996)	Professor of Nursing
Marlene Farrell (1963-1998)	Professor of Nursing
Rod A Faurot (1959–1999)	Professor of Kinesiology and Physical Education
Raymond E Fausel (1962–1990)	Professor of Technology
Stephen F Felszeghy (1979-2005)	Professor of Mechanical Engineering
Robert L Fennessy (1965-1992)	Professor of Health Science
Eleanor Ferguson-Marshalleck (1991–2013)	Associate Dean, College of Health and Human Services and Professor of Nursing
Robert R Fiedler (1961-1997)	Professor of Art

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Anita H Fisher (1956–1980)	Professor of Physical Education
Janet C Fisher-Hoult (1986–2001)	Director, Center for Effective Teaching and Learning, and Professor of Education
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Robert M Fowells (1962–1988)	Professor of Music
Carolyn R. Frank (1998–2013)	Professor of Education
Anthony Fratiello (1963–1999)	Professor of Chemistry
Siegrun Fox Freyss (1996–2013)	Professor of Political Science
Marilyn Friedman (1967–2000)	Professor of Nursing
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G

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Raymond E. Garcia (1982-2012)	Professor of Biochemistry
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Christine Gladish (1988-2012)	Library, Government Information and Special Collections
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Herbert Goldenberg (1955–1986)	Professor of Psychology
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David T Gregorich (1968-2000)	Professor of Physics
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H

Robert G Hadley (1965-1992)	Professor of Education
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Richard W Hurst (1978- 2007)	Professor of Geological Sciences

I

Melva E Irvin (1995-2001)	Director, Center for Effective Teaching and Learning and Professor of Kinesiology and Physical Education
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J

Pamela D Jablonsky (1978-1996)	Professor of Technology
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Sharon Johnson (1989-2006)	Professor of Education

K

Richard H. Kao (1983-2011)	Professor of Marketing
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Robert D Kully (1956–1992)	Professor of Speech Communication
JoAn D Kunselman (1990–2004)	Professor of Music
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Frances Kuwahara-Chinn (1998–2008)	Professor of Education

L

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Anson J Levine (1969-2001)	Associate Professor of Psychology
Jack G Levine (1960–2001)	Professor of Electrical Engineering
Seymour Levitan (1961–1992)	Professor of Psychology
Jane Sanford Lewis (1968-1991)	Professor of Family Studies and Consumer Sciences
Robert T Lewis (1952–1982)	Professor of Psychology
Charles F Leyba (1965-1992)	Professor of Education
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Z Barry Lowenkron (1973 - 2004)	Professor of Psychology
Irwin Lublin (1965-1992)	Professor of Psychology

M

G Grant MacCurdy (1970-2001)	Professor of Spanish
Daniel Mahoney (1972-1998)	Associate Professor of Biology
Leonel A Maldonado (1999-2004)	Professor of Chicano Studies
Edward Malecki (1968-2002)	Professor of Political Science
Jean Maloney (1960–1984)	Professor of English
M Morris Mano (1960–1990)	Professor of Electrical Engineering
Demetrius J Margaziotis (1964-2003)	Professor of Physics
Judith S Margolis (1973-1992)	Professor of Education
Chogollah Maroufi (1988-2013)	Professor of Education
Rosemarie Marshall (1978-2000)	Professor of Microbiology
Catherine Martin (1970-1996)	Professor of Anthropology
Patricia Martz (1990-2005)	Professor of Anthropology
Susan Mason (1990-2011)	Professor of Theatre Arts
Leonard G Mathy (1950–1983)	Professor of Economics
Masako M Matsuda (1977-2004)	Professor of Communication Disorders
Michael J Maurer (1970-1997)	Professor of Mechanical Engineering
Don M. Maurizio (1979-2012)	Professor of Technology
Andrea P. Maxie (1986-2011)	Associate Dean, Charter College of Education and Professor of Education
G Roy Mayer (1969-2003)	Professor of Education
Vincent Mazzucchelli (1971-1996)	Professor of Geography
Carol G McKenzie (1970–1999)	Professor of Kinesiology and, Physical Education
David McNutt (1968-2004)	Professor of Instructional Media Services
Margaret E McWilliams (1961-1992)	Professor of Family Studies and Consumer Sciences
Robert F Meade (1960-1993)	Professor of Geology
Milton W Meyer (1959–1986)	Professor of History
Hrushikesh N. Mhaskar (1980-2012)	Professor of Mathematics
Jung Kim Miller (1989-2006)	Professor of Nursing

Robert A Miller (1966-1997)	Professor of Physical Education
Frederic E Mints (1970–1981)	Professor of Accounting
Majdedin Mirmirani (1981-2007)	Professor of Mechanical Engineering
Thomas M Miyake (1988-2006)	Professor of Music
Marguerite Mochel (1949–1973)	Professor of Physical Education
Ali Modarres (1990–2013)	Professor of Geography and Urban Analysis
Lorraine Monnin (1960–1991)	Professor of Communication Disorders
Raquel Montenegro (1969–1992)	Professor of Education
Donald A Moore (1956–1982)	Professor of Economics and Statistics
Alfredo O Morales (1965–1989)	Professor of Spanish
Rosario Morales (1993–2008)	Professor of Education
Joy Ann Morin (1993-2002)	Professor of Education
Robert H Morneau, Jr (1977–1988)	Professor of Criminal Justice
Ronald H Morris (1960–1998)	Professor of Physical Education
Donald G Mortensen (1949–1978)	Dean, School of Fine and Applied Arts, and Professor of Education
Paul T Mu (1969–1992)	Professor of Economics and Statistics
Alan E. Muchlinski (1979-2012)	Graduate Studies and Research, and Professor of Biological Sciences
Dennis M Murphy (1975-2001)	Professor of Accounting

N

Louis Negrete (1972-2001)	Professor of Chicano Studies
Edward A Nelson (1959–1980)	Professor of Finance
Helen Isabel Nicklin (1964–1986)	Professor of Education
Arthur H Niehoff (1968–1986)	Professor of Anthropology
Donald A Nielsen (1968–1992)	Professor of Education
Reed E Nilsen (1955–1985)	Professor of Physical Education
Naomi P Norton (1961–1974)	Professor of Home Economics
Gary A Novak (1970-2008)	Professor of Geological Sciences
Jonathan Nwomonoh (1970-2002)	Professor of Pan African Studies

O

Freda V O'Bannon-Lemmi (1968-1998)	Professor of Nursing
Helen M O'Connell (1963–1981)	Professor of Nursing
Marjorie Elaine O'Leary (1980–1993)	Associate Professor of Nursing
Aida Takla O'Reilly (1970–2000)	Professor of Pan-African Studies
Eduardo Ochoa (1984–2010)	Professor of Economics and Statistics
Moonsong (David) Oh (1980–2005)	Professor of Marketing
Jon L Olson (1970-2000)	Professor of Anthropology
Thomas P Onak (1959-1997)	Professor of Chemistry
Sumiye N Onodera (1970–1986)	Associate Professor of Family Studies and Consumer Sciences
Elliott Oring (1971-2004)	Professor of Anthropology
Elaine Osio (1970-2004)	Professor of English
Selmer Ostlie (1958–1972)	Professor of Education
Evan K Oyakawa (1961-1991)	Professor of Biology

P

Clement Padick (1960-1995)	Professor of Geography
Anne M Palmer (1953–1971)	Assistant Professor of Education
Judith L Papenhausen (1972-2004)	Director and Professor of Nursing
Leslie Jane Park (1989–2013)	Professor of Accounting
Francoise M Pasques (1961-1992)	Associate Professor of French
Donald R Paulson (1970-2003)	Professor of Chemistry
Victor Payse, Jr (1959–1983)	Professor of Electrical Engineering
Betsy Peitz (1977–2007)	Professor of Biological Sciences
Esther Penchef (1948–1973)	Professor of Sociology
Elba Torres de Peralta (1967-1992)	Professor of Spanish
David R Perrott (1968-2001)	Professor of Psychology
Thomas H Peterson (1970–1999)	Professor of English
Gray Phillips (1962–1992)	Professor of Art
Jean S Phinney (1977-2004)	Professor of Psychology
Ronald L Pierce (1973-2000)	Associate Professor of Accounting

Arnold Pincus (1961-1992)	Assistant Professor of History
Stanley H Pine (1964-1998)	Professor of Chemistry
Eleni N Pitsiou-Darrrough (1973-2002)	Professor of Sociology
Stephen K. Pollard (1982-2012)	Professor of Economics and Statistics
Vilma Potter (1961-1992)	Professor of English
Joseph B. Prabhu (1978-2013)	Professor of Philosophy
Jagdish Prasad (1969-2004)	Professor of Mathematics
Kenneth J Pratt (1958-1992)	Professor of History
Lamar Price (1964-1986)	Professor of Education
Fred Pyrczak, Jr (1970-2001)	Professor of Education

R

Neil Rabitoy (1968-1991)	Professor of History
Carolyn Radakovich (1970-1997)	Professor of Art
Raj Ramchandani (1976-2005)	Professor of Electrical Engineering
D Lynn Rans (1984-1999)	Professor of Accounting
Gerald R Rasmussen (1964-1989)	Professor of Education
Marshall E Reddick (1970-2000)	Professor of Marketing
John D Rees (1968-1997)	Professor of Geography
Robert D Reeser (1971-1994)	Associate Dean, School of Arts Letters, and Professor of Art
James A. Regalado (1987-2012)	Professor of Political Science
Kathryn C. Reilly (1999 - 2012)	Professor of Education
Fred M Reinman (1967-1989)	Professor of Anthropology
Lois M Rhinesperger (1959-1981)	Professor of Home Economics
Fred G Rhodes (1954-1980)	Professor of Education
Patricia Richard-Amato (1984-1991)	Professor of Education
Sidney Richman (1962-1992)	Professor of English
Richard D Roberto (1966-1999)	Professor of Mechanical Engineering
Carlos D. Robles (1979-2013)	Professor of Biological Sciences
Martin S Roden (1968-2005)	Professor of Electrical Engineering
Edythe Rodriguez (1952-1983)	Associate Professor of Education
Michael W Roffe (1973-2004)	Professor of Psychology
Howard Rosen (1970-2002)	Professor of Biology
Paul H. Rosenthal (1988-2013)	Professor of Information Systems
J Murray Ross (1965-1992)	Librarian
James M. Rosser (1979-2013)	President and Professor of Biological Sciences
Alice M Roy (1984-2002)	Professor of English
Thomas A Rusch (1959-1980)	Professor of Political Science
Mercer Price Russell (1964-1992)	Professor of Biology

S

Noriko Saito (1991-2004)	Professor of Education
Rolando A Santos (1965-2004)	Professor of Education
Patricia Savich (1979-2004)	Professor of Communication Disorders
Martin J Schiesl (1970-2001)	Professor of History
William B Schneider (1978-2002)	Professor of Accounting
Jeanne Schnitzler (1959-1997)	Professor of Art
Mary L Schreiber (1967-1992)	Professor of Physical Education
Janet A Seaman (1972-1997)	Professor of Physical Education
Carl Selkin (1970-2006)	Dean, College of Arts Letters, and Professor of English
Penelope Semrau (1988 - 2013)	Professor of Education
Joseph T Seto (1960-1988)	Professor of Microbiology
Fred J Shanley (1965-1980)	Professor of Sociology
Sandra B. Sharp (1986-2013)	Professor of Biological Sciences
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Lilly Shen (1963-1992)	Professor of Family Studies and Consumer Sciences
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Gunjit Sikand (1958-1981)	Professor of Civil Engineering
Ronald H Silverman (1955-1988)	Professor of Art
Robert H Simmons (1962-1985)	Professor of Political Science
Patricia Bates Simun (1968-1991)	Professor of Education
Barbara Peterson Sinclair (1961-1999)	Professor of Nursing
Katherine Siström (1956-1971)	Assistant Professor of Education
Simeon P. Slovacek (1981-2012)	Professor of Education
Arthur L Smith (1957-1992)	Professor of History

Benjamin W Smith (1963–2000)	Professor of Political Science
Marjorie M Smith (1959–1979)	Professor of Theatre Arts
Sidney Soclof (1960-2000)	Professor of Electrical Engineering
Joseph E Soldate (1966–2002)	Professor of Art
David L Soltz (1973–1988 and 1996–2001)	Dean, College of Natural and Social Sciences and Professor of Biology
Bernard J Somers (1960–1983)	Professor of Psychology
Marcel Soriano (1990-2012)	Professor of Education
Ralph S Spanswick (1970–2000)	Chair and Professor of Accounting
Frieda A Stahl (1959-1992)	Professor of Physics
Timothy Steele (1987–2007)	Professor of English
J Leonard Steinberg (1962-1992)	Professor of Education
Nadine S. Koch Steinberg (1987-2013)	Professor of Political Science
John F. Steiner (1973-2010)	Professor of Management
Milton Stern (1960-1992)	Professor of Music
William L Sternal (1966–2004)	Counselor and Associate Dean, Student Affairs
Judith E Stevens-Long (1971-1993)	Professor of Psychology
Virgil H Stevens (1963–1985)	Associate Professor of Political Science
Kenneth S Strobel (1955–1975)	Associate Director of Photographic Services, Audio-Visual Center
Gaby Stuart (1964–1991)	Professor of English
Joseph Stubbins (1959–1980)	Professor of Education
Robert J Stull (1969–2001)	Professor of Geology
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Ellenore C Takeda (1959–1978)	Librarian
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Narendra B. Taly (1977–2010)	Professor of Civil Engineering
Robert Tamaki (1969-2001)	Associate Professor of Mathematics
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William A Taylor (1970-2004)	Professor of Physics
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Olga A Termini (1972-1996)	Professor of Music
Raymond D Terrell (1973–1992)	Dean, School of Education, and Professor of Education
F Annette Tessier (1969–1986)	Professor of Education
John E Thornbury (1988 - 1999)	Librarian/Reference
Maurine Timmerman (1950–1974)	Professor of Music
Roy Tozier (1952–1965)	Professor of Education
Nathaniel Trives (1969-1997)	Professor of Criminal Justice
Ronald T. Tsukashima (1972–2010)	Professor of Sociology
Carol F. Tuntland (1988-2010)	Professor of Art
Alvin E Tuohino (1956–1976)	Professor of Accounting

U

Norman Unrau (1993–2006)	Professor of Education
Nguyen Uy (1984-2012)	Professor of Math

V

Philip D Vairo (1973–1982)	Dean, School of Education, and Professor of Education
Velma J Vance (1956–1991)	Professor of Biology
Stewart M Venit (1971-2009)	Professor of Mathematics
Robert C Verkler (1970–1988)	Professor of Information Systems
Diane Vernon (1969–2003)	Professor of Nursing
Andrei Verona (1984–2005)	Professor of Mathematics
Elizabeth A Viau (1992-2002)	Professor of Education
Hildebrando Villarreal (1976-2006)	Professor of Spanish
Richard J Vogl (1961–1994)	Professor of Biology
George R Vick (1967–1997)	Professor of Philosophy

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William C Waddell (1967–1992)	Professor of Management
Kenneth A Wagner (1969 -2001)	Professor of Political Science
Patricia L Wagner (1962-1996)	Professor of Physical Education
Roy H Walden (1967–1992)	Professor of Art
Edwin Wandt (1954–1983)	Professor of Education
Wen L Wang (1967-1996)	Professor of Civil Engineering
Beverly Y Warner (1953–1975)	Professor of Physical Education
Hugh E Warren (1976-2003)	Associate Dean, College of Business and Economics, and Professor of Accounting
Judith M. Washburn (1974-2011)	Professor of Education
Paul V. Washburn (1973-2012)	Professor of Management
Alice V Watkins (1969-1995)	Associate Dean, School of Education, and Professor of Education
Gary Steele Watson (1974–1999)	Professor of Business Law
David J Weiss (1970-2006)	Professor of Psychology
John H Weston (1971–1992)	Professor of English
Patricia M White (1962–1982)	Professor of Physical Education
Patti W Schliett Wiggins (1956– 1990)	Professor of Music
Rhea Williams (1989 –2005)	Professor of Nursing
Erika G Wilson (1968–2001)	Professor of Economics and Religious Studies
Hubert C Winkler (1968–1979)	Professor of Physics
Jeannette Rennner Witucki (1967– 1986)	Professor of Anthropology
John B Wood (1962-1999)	Reference Librarian
John C Woolum (1970-2001)	Professor of Physics
Emil Wroblicky (1956–1987)	Professor of Physical Education
Ruth R Wu (1971-1995)	Dean, School of Health and Human Services, and Professor of Nursing

Y

Fleur B Yano (1964-1996)	Professor of Physics
DeAnn Marie Young (1969 –2001)	Professor of Nursing
Eui-Young Yu (1968–2001)	Professor of Sociology

Z

Robert G Zahary (1972-1994)	Professor of Accounting
Vicente S Zapata (1978–1999)	Professor of Health Science
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Welcome to the California State University (CSU) – the largest comprehensive higher education system in the nation with 23 unique campuses serving more than 437,000 students with 44,000 employees statewide. Each year, the university awards nearly 100,000 bachelor’s, master’s and doctoral degrees. CSU graduates now total nearly 3 million strong, and are serving as leaders in the industries that drive California’s economy, including business, agriculture, entertainment, engineering, teaching, hospitality and healthcare. Learn more at www.calstate.edu.

More than 50-year tradition of excellence

Academic excellence has been achieved by the CSU through a distinguished faculty whose primary responsibility is superior teaching. While each campus is unique based on its curricular specialties, location and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through extensive industry partnerships and robust campus auxiliaries, the CSU is expanding programs, internships and workforce training opportunities to ensure CSU students are ready with the critical thinking skills, industry knowledge and hands-on experience for employment and career advancement.

Facts

- CSU faculty attract more than \$500 million annually in research and education grants, and contracts by federal, state and regional agencies.
- 1 in every 10 employees in California is a CSU alumnus.
- The CSU awards 45 percent of the bachelor’s degrees earned in California.
- More than half of all the nurses in the state earn their degrees from the CSU.
- The CSU awards 95 percent of the hospitality/tourism degrees in the state.
- Nearly half of all of the state’s engineers earn their degrees from the CSU.
- The CSU is the leading provider of teacher preparation programs in the state.
- The CSU offers 105 fully online degree programs through www.calstateonline.net.
- The CSU offers 3,250 online courses to provide more educational options to students who may prefer an online format to a traditional classroom setting.
- The CSU’s growing online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU system.
- The CSU serves more than 5,000 individuals annually through professional development certificate programs in educational health services, business and technology, leisure and hospitality, manufacturing, international trade, and many other industries.
- For every \$1 that the state invests in the CSU, the university generates \$5.43 for California’s economy.

Governance

The system is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU Chancellor is the chief executive officer, reporting to the Board. The campus presidents serve as the campus-level chief executive officers. The Trustees, Chancellor and presidents develop systemwide educational policy. The presidents, in consultation with the Academic Senate and other campus stakeholder groups, render and implement local policy decisions.

CSU Historical Milestones

The individual California State Colleges was established as a system with a Board of Trustees and a Chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 23 campuses, including comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest—CSU Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

In 1963, the State Academic Senate was established to act as the official voice of CSU faculty in systemwide matters. Also, the California State College Student Presidents Association—which was later renamed the California State Students Association—was founded to represent each campus student association on issues affecting students.

Through its many decades of existence, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU’s core mission has always focused on providing high-quality, affordable bachelor’s and master’s degree programs, over time the university has

added a wide range of services and programs to support student success – from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

To improve degree completion and accommodate students working full- or part-time, the educational paradigm expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

The CSU marked another significant educational milestone when it broadened its degree offerings to include doctoral degrees. The CSU independently offers educational doctorate (Ed.D.), Doctor of Physical Therapy (DPT), and Doctor of Nursing Practice (DNP) degree programs. A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

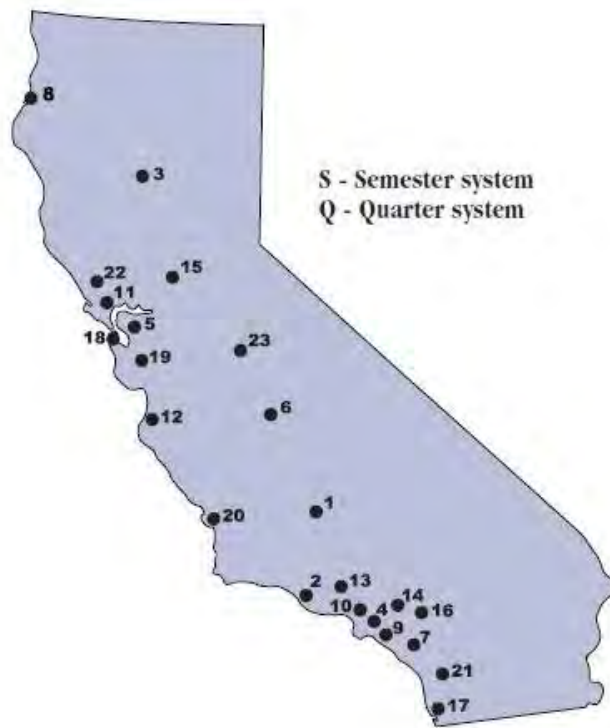
In 2010, in an effort to accommodate community college transfer students, the university, in concert with the California Community Colleges, launched the Associate Degree for Transfer, which guarantees transfer students admission to the CSU with junior status.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU initiated another milestone in 2013, when it launched Cal State Online, a systemwide collection of services that support the delivery of fully online programs from campuses. Now, full-time students also have access to fully online courses offered at other CSU campuses.

The CSU is dynamic and ever changing to ensure a quality higher education to the students of California. With 23 campuses, 437,000 students and 44,000 faculty and staff, the CSU plays a critical role in preparing outstanding candidates for the job market. The CSU is committed to continually developing innovative programs, services and opportunities that will give students the tools they need to meet their full potential.

Map of CSU Office and Campus Locations

Check out the website for the entire California State University: www.csumentor.edu. You will find helpful hints, frequently asked questions, campus tours, and general information about all 23 campuses. The phone number listed for each campus is for the Office of Admission.



1 California State University, Bakersfield • Q

9001 Stockdale Highway
Bakersfield, CA 93311-1022
Dr. Horace Mitchell, President
(661) 654-2782
www.csub.edu

2 California State University, Channel Islands • S

One University Drive
Camarillo, CA 93012
Dr. Richard R. Rush, President
(805) 437-8400
www.csuci.edu

3 California State University, Chico • S

400 West First Street
Chico, CA 95929
Dr. Paul J. Zingg, President
(530)-898-4636
www.csuchico.edu

- 4 California State University, Dominguez Hills • S**
1000 East Victoria Street
Carson, CA 90747
Dr. Willie Hagan, President
(310) 243-3696
www.csudh.edu
- 5 California State University, East Bay • Q**
25800 Carlos Bee Boulevard
Hayward, CA 94542
Dr. Leroy M. Morishita, President
(510) 885-3000
www.csueastbay.edu
- 6 California State University, Fresno • S**
5241 North Maple Avenue
Fresno, CA 93740
Dr. Joseph I. Castro, President
(559) 278-4240
www.csufresno.edu
- 7 California State University, Fullerton • S**
800 North State College Boulevard
Fullerton, CA 92831-3599
Dr. Mildred García, President
(657) 278-2011
www.fullerton.edu
- 8 Humboldt State University • S**
One Harpst Street
Arcata, CA 95521-8299
Dr. Rollin C. Richmond, President
(707) 826-3011
www.humboldt.edu
- 9 California State University, Long Beach • S**
1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Donald J. Para, Interim President
(562) 985-4111
www.csulb.edu
- 10 California State University, Los Angeles • Q**
5151 State University Drive
Los Angeles, CA 90032
Dr. William A. Covino, President
(323) 343-3000
www.calstatela.edu
- 11 California Maritime Academy • S**
200 Maritime Academy Drive
Vallejo, CA 94590
Rear Admiral Thomas A. Cropper, President
(707) 654-1000
www.csum.edu
- 12 California State University, Monterey Bay • S**
Vallejo, CA 94590
Dr. Eduardo M. Ochoa, President
(831) 582-3000
www.csUMB.edu
- 13 California State University, Northridge • S**
18111 Nordhoff Street
Northridge, CA 91330
Dr. Dianne F. Harrison, President
(818) 677-1200
www.csun.edu
- 14 California State Polytechnic University, Pomona • Q**
3801 West Temple Avenue
Pomona, CA 91768
Dr. J. Michael Ortiz, President
(909) 869-7659
www.csupomona.edu
- 15 California State University, Sacramento • S**
6000 J Street
Sacramento, CA 95819
Dr. Alexander Gonzalez, President
(916) 278-6011
www.csus.edu

16 California State University, San Bernardino • Q

5500 University Parkway
San Bernardino, CA 92407-2318
Dr. Tomás D. Morales, President
(909) 537-5000
www.csusb.edu

17 San Diego State University • S

5500 Campanile Drive
San Diego, CA 92182
Dr. Elliot Hirshman, President
(619) 594-5200
www.sdsu.edu

18 San Francisco State University • S

1600 Holloway Avenue
San Francisco, CA 94132
Dr. Leslie E. Wong, President
(415) 338-1111
www.sfsu.edu

19 San José State University • S

One Washington Square
San Jose, CA 95192-0001
Dr. Mohammad Qayoumi, President
(408) 924-1000
www.sjsu.edu

20 California Polytechnic State University, San Luis Obispo • Q

One Grand Avenue
San Luis Obispo, CA 93407
Dr. Jeffrey D. Armstrong, President
(805) 756-1111
www.calpoly.edu

21 California State University, San Marcos • S

333 South Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Karen S. Haynes, President
(760) 750-4000
www.csusm.edu

22 Sonoma State University • S

1801 East Cotati Avenue
Rohnert Park, CA 94928
Dr. Ruben Armiñana, President
(707) 664-2880
www.sonoma.edu

23 California State University, Stanislaus • 4-1-4

801 West Monte Vista Avenue
Turlock, CA 95382
Dr. Joseph F. Sheley, President
(209) 667-3122
www.csustan.edu

Officials of the California State University

Office of the Chancellor

The California State University
401 Golden Shore
Long Beach, CA 90802-4210
(562) 951-4000

Dr. Timothy P. White	Chancellor - CSU System
Sally F. Roush	Interim Executive Vice Chancellor and Chief Financial Officer
Dr. Ephraim P. Smith	Executive Vice Chancellor and Chief Academic Officer
Mr. Framroze Virjee	Executive Vice Chancellor and General Counsel
Mr. Garrett P. Ashley	Vice Chancellor, University Relations and Advancement
Ms. Gail E. Brooks	Vice Chancellor, Human Resources
Mr. Larry Mandel	University Auditor

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The Honorable Gavin Newsom
Lieutenant Governor of California

The Honorable John Pérez
Speaker of the Assembly

The Honorable Tom Torlakson
State Superintendent of Public Instruction

Dr. Timothy P. White
Chancellor of The California State University

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Appointments are made for a term of eight years, student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

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Talar Alexanian	(2015)
Rebecca D. Eisen	(2018)
Douglas Faigin	(2017)
Debra S. Farar	(2014)
Margaret Fortune	(2016)
Lupe Garcia	(2020)
Steven M. Glazer	(2019)
William Hauck	(2017)
Bob Linscheid	(2013)
Lou Monville	(2014)
Hugo Morales	(2020)
J. Lawrence Norton	(2019)
Steven Stepanek	(2015)
Cipriano Vargas	(2014)

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The Honorable Edmund G. Brown, Jr.	President
Bob Linscheid	Chair
Framroze Virjee	Secretary
Sally F. Roush (Inerim)	Treasurer

Correspondence with Trustees should be sent to:

c/o Trustees Secretariat
The California State University
401 Golden Shore
Long Beach, CA 90802-4210

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Disabled Parking

Parking with CSULA current permit only (includes persons with DMV Placards) on

Circle Drive, Paseo Rancho Castilla, B-Level of the Parking Structure B, all levels of Parking Structures A and C, Lot 4, Lot 6, Lot 7, Lot 7A (residence area), Lot 8, and Lot 10.

Parking

- Visitors with guest passes: Park in lot designated on the pass.
- Visitors with reservations: check in at parking kiosk for parking in Lot 4.
- Visitors without passes: park in areas with permit dispensers or meters (top level, Parking Structure C; all levels, Parking Structure A; Lot 2; Lot 5; Lot 7).
- NOTE: Permits/passes must be displayed at all times. Questions? Call Parking Administration, (323) 343-3704.

Navigating King Hall

- King Hall has 4 wings:
 - A - Southwest (nearest to Kennedy Library)
 - B - Southeast (nearest to Engineering and Technology)
 - C - Northeast (nearest to Lot 7)
 - D - Northwest (nearest to Lot 5)
- Rooms in the middle corridor are associated with whatever wing they abut.
- There are 6 floors, B (for Basement) to 5.
- If the room assignment has 3 digits, then the room is in the Basement.
- If the room has 4 digits, then it is on an upper floor.
- Examples: D140 is in the D Wing Basement, and C4069 is in the C Wing Fourth Floor.

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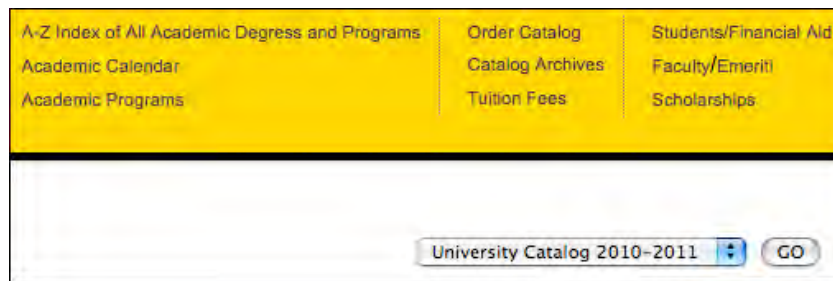
HELP

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How To Use The Online Catalog

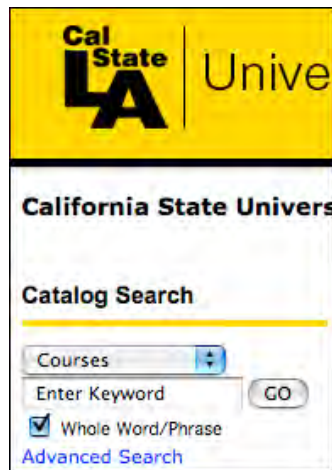
1. Select A Catalog

To access the Cal State University, Los Angeles' online catalog, click on a catalog year that you would like to view (e.g. 2009-2010 Undergraduate Catalog) from any catalog page. To switch between the different catalogs, use the drop down menu at the top of the page and choose from the available catalogs.



2. Use The Navigation Menu

At all times, a navigation menu is available on the left side of the page. Use the menu to navigate through the different sections of the catalog.



3. Searching and Navigating

The following are methods for locating specific programs, courses, colleges, departments, etc., within the online catalog:

Use the catalog search box to key in what you are seeking information about.

From the drop down menu above the search box, choose an area of the catalog that you want to search (e.g. Courses)

Type in a keyword or phrase (e.g. Expository Writing I or ENGL 100) then click "GO"

Catalog Search

Courses

Whole Word/Phrase

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Catalog Search

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Search Results [Modify search options.]

Courses - Prefix/Code Matches

Results for course prefix "MATH" and/or course code "100"

[MATH 100 - Introduction to College Mathematics](#)

Courses - Keyword/Phrase Matches

Results for phrase "MATH 100".

[HHS 400 - Statistics in Health and Human Services](#)

[HS 472 - Data Analysis for Health Science](#)

Click on an item in the navigation menu.

To find information on a department or its programs (majors, minors, and certificates), click on "Programs" on the left menu.

Departments are listed in alphabetical order. To view department information, click on "Academic Programs."

Programs are listed under their departments. To find a specific program, scroll to find the appropriate department.

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4. Using "My Portfolio"

My Portfolio allows users to browse through the online catalog to save programs and courses of interest. Users can save content from any catalog in one portfolio. Simply click on the "Add to portfolio" link located above the program/course description or below the entire document to save for future use.

Required Common Core Courses (12 units)

- [CIS 504 - Information Systems](#)

[\[Add to Portfolio \]](#) [\[Print Course \]](#)

CIS 504 - Information Systems

(4)

Overview of computer, communication and software systems. Cases in: business applications of information technology, managing the acquisition and use of application systems, and working with the information systems organization.

- [CIS 585 - Communication and Information Services \(4\)](#)
- [CIS 590 - IS/IT Policy and Strategy \(4\)](#)

You may review items in your portfolio at any time by clicking on the "My Portfolio" link. "My Portfolio" is cookie based, therefore when you have cleared cookies from the browser cache, items in your portfolio will be cleared.

California State University, Los Angeles

My Portfolio

To remove items from your Portfolio, check boxes next to the item to remove and click the *Remove* button.

The following courses have been added to your Portfolio:

Course Name	Remove
CIS 504 - Information Systems [University Catalog 2010-2011]	<input type="checkbox"/> <input type="button" value="Remove"/>



Catalog Search

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Index of Academic Degrees, Certificates and Programs

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A

Discipline	Program	Options
Accountancy	Accountancy, M.S.	Accounting Information Systems Option, MS Financial and Public Accounting Option, MS Managerial and Cost Accounting Option, MS
Accounting	Undergraduate Certificate Program in Accounting Business Administration: Option in Accounting, B.S. Business Administration, M.B.A. Accounting Minor	
Accounting Information Systems	Accountancy, M.S.	
Acute Care Nurse Practitioner	Nursing, M.S. Post Master's Certificate in Acute Care Nurse Practitioner (ACNP): Adult Specialty	Adult Option, MS Pediatric Option, MS
Adapted Physical Education Specialist	Adapted Physical Education	
Administrative Management	Business Administration: Option in Management, B.S.	
Administrative Services (Preliminary)	Preliminary Administrative Services Credential	
Administrative Services (Professional)	Clear Administrative Services Credential	
Adult Nurse Practitioner Specialty	Post Master's Certificate in Adult Nurse Practitioner Specialty (ANP)	
Advanced Information Systems	Graduate Certificate Program in Advanced Information Systems	
African American Studies	African American Studies, B.A. Pan-African Studies Minor	
Alcohol and Drug Problems Specialist	Undergraduate Certificate Program in Specialist in Alcohol and Drug Problems	
Alternative Nutrition	Undergraduate Certificate Program in Alternative Nutrition	
Animation	Art, B.A. Television, Film and Media Studies, B.A.	Animation Option Animation Option
Anthropology	Anthropology, B.A. Anthropology Minor Anthropology, M.A.	General Option, MA Archaeology Option, MA Forensic Option, MA Sociocultural Option, MA
Applied Economics	Economics, B.A.	Applied Economics Option, BA
Applied Behavior Analysis	Counseling, M.S. Psychology, M.S.	Applied Behavior Analysis Option, MS Applied Behavior Analysis Option, MS
Applied Behavior Analysis in Educational Settings	Graduate Certificate Program in Applied Behavior Analysis in Educational Settings	
Applied Gerontology	Applied Gerontology, Undergraduate, Certificate Graduate Certificate Program in Applied Gerontology	
Archaeology	Anthropology, M.A.	Archaeology Option, M.A.
Art	Art, B.A. Art, M.A. Art, M.F.A. Art Minor	Animation Option, BA Art Education Option, BA Art Education Option, MA Art History Option, BA Art History Option, MA Design Option, MA Design Option, MFA Fashion and Textiles Option, BA Graphic Design/Visual Communication Option, BA Single Subject Teaching Option, BA Studio Arts Option, BA Studio Arts Option, MA Studio Arts Option, MFA
Art Education	Art, B.A.	Art Education Option, BA

	Art, M.A.	Art Education Option, MA
Art History	Art, B.A. Art, M.A.	Art History Option, BA Art History Option, MA
Asian and Asian American Studies	Asian and Asian American Studies, B.A. Asian Studies Minor	
Athletics	Program/Courses	
Audiology	Clinical-Rehabilitative Services Credential in Audiology Communicative Disorders, M.A.	Audiology Option, MA
Autism	Graduate Certificate Program in Autism Special Education, M.A.	Autism Option, MA
Aviation Administration	Aviation Administration, B.S.	

B

Discipline	Program	Options
Basic Business	Basic Business Minor	
Bilingual/Multicultural Education in the Elementary Classroom	Education, M.A.	Bilingual/Multicultural Education Option, MA
Biochemistry	Biochemistry, B.S. Chemistry, M.S.	Biochemistry Option, MS
Biology	Graduate Certificate Program in Biotechnology Biology Minor Biology, M.S. Environmental Science, M.S. Post-Baccalaureate Certificate Program for Clinical Genetic Molecular Biology Science Post-Baccalaureate Certificate Program in Clinical Laboratory Science Post-Baccalaureate Certificate Program for Pre-Health Professionals	Biology Emphasis (Blended), BS Biology Emphasis (Traditional), BS
Biophysics	Physics, B.S.	Biophysics Option, BS
Biotechnology	Graduate Certificate Program in Biotechnology	
Black Studies	African American Studies, B.A.	
Broadcast Journalism	Communication, B.A.	Broadcast Journalism Option, BA
Business Administration	Business Administration, B.S. Undergraduate Certificate Program in Entrepreneurship Undergraduate Certificate Program in International Business Communication Undergraduate Certificate Program in Labor Relations Business Administration, M.B.A. Business Administration, M.S.	Accounting Option, BS Accounting Option, MBA Administrative Management Option, BS Business Arts-Prelegal Option, BS Business Economics Option, BS Business Economics Option, MBA Business Economics and Statistics Option, BS Business Systems Option, BS Entrepreneurship Option, BS Finance Option, BS Finance Option, MS Finance Option, MBA Health Care Management Option, MBA Human Resources Management Option, BS Information Systems Option, MBA Information Technology Option, BS International Business Option, BS International Business Option, MS International Business Option, MBA Management Option, MS Management Option, MBA Management Accounting Option, MBA Marketing Option, BS Marketing Option, MS Marketing Option, MBA Operations Management Option, BS Real Estate Option, BS Retailing Option, BS Special Business Option, BS
Business Arts-Prelegal	Business Administration, B.S.	Business Arts-Prelegal Option, BS
Business Economics	Business Administration, M.B.A.	Business Economics Option, MBA
Business Economics and Statistics	Business Administration, B.S.	Business Economics and Statistics Option, BS
Business Management	Post-Baccalaureate Certificate in Business Management	
Business Systems	Computer Information Systems, B.S.	Business Systems Option, BS

C

Discipline	Program	Options
California Reading Certificate	California Reading Certificate	
Career Counseling	Graduate Certificate Program in Career Counseling	
Chemistry	Chemistry, B.S. Biochemistry, B.S. Chemistry, M.S.	Chemistry Emphasis (Blended), BS Chemistry Emphasis (Traditional), BS Biochemistry Option, MS
Central American Studies	Chicano Studies Minor	

	Latin-American Studies Minor	
Chicano Studies	Latin-American Studies, B.A. Central American Studies Minor Chicano Studies Minor Mesoamerican Studies Minor	Option I General Program, BA Option II Elementary Subject Matter Teacher Preparation Option, BA Option III Blended Elementary Subject Matter Teacher Preparation Option, BA Option IV Elementary Subject Matter Teacher Preparation Directed Electives Option, BA
Child Development	Child Development, B.A. Child Development Minor Child Development, M.A.	General Option I, BA Elementary Subject Matter Teacher Preparation Option II, BA
Child Life/Hospitalized Child	Child Development, B.A.	Specialization in Child Development, Option
Child Maltreatment and Family Violence	Undergraduate Certificate Program in Child Maltreatment and Family Violence	
Chinese	Chinese, B.A. Chinese Minor	
Choral Conducting	Music, MM	Choral Conducting Option, MMus
Civil Engineering	Civil Engineering, B.S. Civil Engineering, M.S.	
Classics	Classics Minor	
Clinical Nurse Specialization: Psychiatric/Mental Health	Nursing, M.S.	Clinical Nurse Specialization:Psychiatric/Mental Health Option, MS
Clinical-Rehabilitative Services	Clinical-Rehabilitative Services Credential in Audiology Clinical Rehabilitative Services Credential in Language, Speech, and Hearing	
Commercial Music	Music, MM	Commercial Music Option, MMus
Commercial Transportation	Undergraduate Certificate Program in Commercial Transportation	
Communicative Disorders	Communicative Disorders, M.A. Communicative Disorders, B.A. Clinical-Rehabilitative Services Credential in Audiology Clinical Rehabilitative Services Credential in Language, Speech, and Hearing Undergraduate Certificate Program in School Audiometrist	Audiology Option, MA Speech-Language Pathology Option, MA
Communication Studies	Television, Film and Media Studies, B.A. Communication, B.A. Communication Studies, M.A. Television, Film and Theatre, M.F.A.	Animation Option, BA Television, Film and Media Studies Broadcast Journalism Option, BA Television, Film and Media Studies Telecommunications and Film Option BA, Television, Film and Media Studies Telecommunications and Film Option, MA
Communication	Communication, B.A. Communication Minor Communication Studies, M.A.	Communication for Social Change and Rhetoric Option, BA Performance Studies Option, BA Organizational Communication and Public Relations Option, BA Interpersonal Communication/Language and Social Interaction, BA Communication Option, MA
Community Health	Public Health, B.S.	Community Health Option, BS
Community Nutrition	Certificate Program	The School of Kinesiology and Nutritional Science
Comparative Linguistics	Comparative Linguistics Interdisciplinary Minor	
Composition	Music, BMus Music, MM	Composition Option, BMus Composition Option, MMus
Composition, Rhetoric, and Language	English, M.A.	Composition, Rhetoric, and Language Option, MA
Computer Applications in Schools	Graduate Certificate Program in Computer Applications in Schools	
Computer Education and Technology Leadership	Education, M.A.	Computer Education and Technology Leadership Option, MA
Computer Information Systems	Information Systems, M.S. Business Administration, M.B.A.	Executive option (EMSIS) Professional option (PMSIS) Computer Information Systems Option, MBA
Computer Programming	Undergraduate Certificate Program in Computer Programming	
Computer Science	Computer Science, B.S. Computer Information Systems Minor Computer Science, Integrated B.S./M.S. Computer Science, M.S.	
Conducting	Music, BMus	Conducting Option, MMus
Cooperative Education	Courses	
Coordinated Dietetics Program	Nutritional Science, B.S.	Coordinated Dietetics Option, BS
Counseling		
Creative Literacies and Literature in the Elementary Classroom	Education, M.A.	Creative Literacies and Literature in the Elementary Classroom Option, MA
Creative Writing	Creative Writing Minor	Creative Writing Option, BA

	English, B.A. English, M.A.	Creative Writing Option, MA
Credit for Prior Experiential Learning (CPEL)	Courses	
Credential Internships/Programs	Multiple Subject Teaching Credential Preliminary Administrative Services Credential School Psychology Single Subject Teaching Credential Education Specialist Credential Programs	Mild/Moderate Disabilities Moderate/Severe Disabilities Physical and Health Impairments Visual Impairment and Blindness
Criminalistics	Criminalistics, M.S.	
Criminal Justice	Criminal Justice, B.S. Criminal Justice, M.S. Criminal Justice Minor Forensic Science Minor	General Option, BS Law Enforcement Option, BS
Critical Thinking (Teaching)	Graduate Certificate Program in Teaching Critical Thinking	

D

Discipline	Program	Options
Dance	Theatre Arts and Dance, B.A.	Dance Option, BA
Design	Art, M.A. Art, M.F.A.	Design, MA Design, MFA
Dietetics	Kinesiology, B.S.	Coordinated Dietetics Program (CDP), BS Option in Nutritional Science Didactic Program in Dietetics (DPD), BS Option in Nutritional Science

E

Discipline	Program	Options
Early Childhood Education	Education, M.A.	Early Childhood Education Option, MA
Early Childhood Program Administration	Child Development, B.A.	Specialization in Child Development, BA Option 1
Early Childhood Special Education	Early Childhood Special Education: Infancy Emphasis Certificate Early Childhood Special Education: Preschool Emphasis Certificate Education Specialist Credential Programs	Early Childhood Special Education Option, MA
Economics	Economics, B.A. Undergraduate Certificate Program in Labor Relations Economics, M.A. Economics Minor	Applied Economics Option, BA Social and Behavioral Sciences Option BA Financial Economics Option, MA Global Economics Option, MA
Education	Education, M.A. Education Specialist Credential Programs Graduate Certificate Program in English as a Second or Foreign Language (ESL/EFL) Teaching English to Speakers of Other Languages (TESOL), M.A.	Computer Education and Technology Leadership Option, MA Educational Foundations Option, MA Elementary Teaching Option, MA Middle and Secondary Curriculum and Instruction Option, MA New Media Design and Production Option, MA Reading Option, MA Research and Evaluation Option, MA
Educational Administration	Doctor of Education Degree in Educational Administration and Leadership Education, M.A.	Educational Leadership Option, MA
Educational Foundations	Education, M.A.	Educational Foundations Option, MA
Educational Leadership	Education, M.A.	Educational Leadership Option, MA
Educational Specialist, Special Education	Education Specialist Credential Programs	
Electrical Engineering	Electrical Engineering, B.S. Electrical Engineering, Integrated B.S. / M.S. Electrical Engineering, M.S.	
Elementary Subject Matter Teacher Preparation Option	Child Development, B.A. Liberal Studies, B.A. Mexican-American Studies, B.A. Urban Learning, B.A.	Elementary Subject Matter Teacher Preparation Option, BA Elementary Subject Matter Teacher Preparation Option, BA Elementary Subject Matter Teacher Preparation Option, BA Elementary Subject Matter Teacher Preparation Option, BA
Elementary Subject Matter Teacher Preparation Option: Directed Electives	Urban Learning, B.A.	
Elementary Teaching	Education, M.A.	Elementary Teaching Option, MA Bilingual/Multicultural Education Option, MA Creative Literacies and Literature in the Elementary Classroom Option, MA Curriculum and Instruction in the Urban Elementary School Option, MA Early Childhood Education concentration Option, MA Mathematics Education Option, MA
Engineering	Engineering with Special Options, B.S.	

English	English, B.A. English, B.A. English Minor Certificate Program in Teaching Writing	Composition, Rhetoric and Language Option, MA Creative Writing Option, BA Creative Writing Option, MA General Option, BA Literature Option, MA Single Subject Teaching Option, BA
English as a Second Language (ESL/EFL)	Graduate Certificate Program in English as a Second or Foreign Language (ESL/EFL)	
Entrepreneurship	Undergraduate Certificate Program in Entrepreneurship Business Administration: Option in Entrepreneurship, B.S.	
Environmental Geoscience	Bachelor of Science Degree in Geology	Environmental Geoscience Option, BS
Environmental Health	Public Health, B.S.	Environmental Health Option, BS
Environmental Science	Environmental Science, M.S.	
Exercise and Human Performance	Kinesiology, B.S.	Exercise and Human Performance Option, BS
Exercise Science	Exercise Science, B.S. Kinesiology, M.S.	Exercise Science Option, MS
(Prior) Experiential Learning, Credit for (CPEL)	Courses	

F

Discipline	Program	Options
Family Nurse Practitioner	Post Master's Certificate in Family Nurse Practitioner (FNP)	
Fashion and Textiles	Art, B.A.	Fasion and Textiles Option, BA
Fashion Design	Undergraduate Certificate Program in Fashion Design	
Fashion Merchandising	Undergraduate Certificate Program in Fashion Merchandising	
Finance	Business Administration: Option in Finance, B.S. Undergraduate Certificate Program in Finance Business Administration: Option in Finance, M.S. Finance Minor Business Administration, M.B.A.	Finance Option, MBA
Financial and Public Accounting	Accountancy, M.S.	Financial and Public Accounting Option, MS
Financial Economics	Economics, M.A.	Financial Economics Option, MA
Fire Protection Administration and Technology	Fire Protection Administration and Technology, B.S.	
Fire Protection Risk Analysis and Reduction	Undergraduate Certificate Program in Fire Protection Risk Analysis and Reduction	
Fire Service Administration	Undergraduate Certificate Program in Fire Service Administration	
Food Science and Technology	Food Science and Technology, B.S.	
Food Safety Certificate	Food Safety Certificate	
Food Science Certificate	Food Science Certificate	
Forensic Anthropology	Anthropology, M.A.	Forensic Anthropology Option, MA
Forensic Science	Forensic Science Minor	
French	French, B.A. French, M.A. French Minor	General Option, BA Single Subject Matter Preparation Option, BA Single Subject Credential Program

G

Discipline	Program	Options
General Anthropology	Anthropology, M.A.	General Anthropology Option, MA
General Management	Undergraduate Certificate Program in General Management	
General Political Science	Political Science General Minor	
Geography	Geography, B.A. Undergraduate Certificate Program in Geographic Information Systems Geography, M.A. Geography Minor	General Option, BA GIS (Geographic Information Systems) Option, BA Urban Analysis Option, MA
Geology	Bachelor of Science Degree in Geology Geology Sciences Minor Geological Sciences, M.S.	General Option, BA
Geoscience	Natural Science, B.S.	Geoscience Emphasis (Blended), BS Geoscience Emphasis (Traditional), BS
Gerontology (Applied)	Undergraduate Certificate Program in Applied Gerontology	
Gerontology (Social)	Social Gerontology Minor	
Gifted Education	Special Education, M.A.	Gifted Education Option, MA
Global Economics	Economics, M.A.	Global Economics Option, MA
Global Politics	Political Science Global Politics Minor	
Graphic Communications	Graphic Communications, B.S.	
Graphic Design	Art, B.A.	Graphic Design/Visual Communication Option, BA

H

Discipline	Program	Options
Health Care Management	Health Care Management, M.S. Business Administration, M.B.A. The Post-Baccalaureate Certificate in Health Care Management	Health Care Management Option, MBA
Health Science	Public Health, B.S. Public Health Minor Health Science, M.A. Single Subject Credential in Science	
Health Services	Health Services Credential: School Nurse Services	
History	History, B.A. History Teaching Credential Program History, M.A. History Minor Labor and Working Class Studies Minor Religious Studies Minor	General Option, BA Teacher Preparation Option, BA
Human Resources Management	Business Administration: Option in Human Resources Management, B.S. Undergraduate Certificate Program in Human Resource Management	

I

Discipline	Program	Options
Industrial and Technology Education	Industrial Technology, B.S.	Single Subject Credential Program, BS
Industrial and Technical Studies	Industrial and Technical Studies, M.A.	
Industrial Studies	Industrial Studies Minor	
Industrial Technology	Industrial Technology, B.S. Aviation Administration, B.S. Undergraduate Certificate Program in Fire Protection Risk Analysis and Reduction Undergraduate Certificate Program in Fire Service Administration	
Information Systems	Information Systems, M.S.	
Information Technology	Computer Information Systems, B.S. Computer Information Systems Minor	Information Technology Option, BS
Instrumental Conducting	Music, MM	Instrumental Conducting Option, MMus
Instrumental Performance	Music, BMus	Instrumental Performance Option, BMus
Intercollegiate Athletics	Programs/Courses	
Intercultural Proficiency Program	Undergraduate Certificate Program in Intercultural Proficiency	
Interdisciplinary Studies	MA , MS	University Programs
International Business	Undergraduate Certificate Program in International Business Undergraduate Certificate Program in International Business Communication Business Administration, B.S. Business Administration, M.S. Business Administration, M.B.A.	International Business Option, BS International Business Option, MS International Business Option, MBA
International Business Communication	Undergraduate Certificate Program in International Business Communication	
International Economic Relations	Undergraduate Certificate Program in International Economic Relations	

J

Discipline	Program	Options
Japanese	Japanese, B.A. Japanese Minor Single Subject Teaching Credential	
Jazz Studies	Music, BMus	Jazz Studies Option, BMus

K

Discipline	Program	Options
Keyboard Performance	Music, BMus	Keyboard Performance Option, BMus
Kinesiology	Kinesiology, B.S. Adapted Physical Education Exercise Science, B.S. Kinesiology, M.S.	Option I: Exercise and Human Performance Science, BS Option II: Rehabilitation and Therapeutic Exercise, BS Option III: Community Leadership, BS Option IV: Subject Matter Preparation for Single Subject Teaching Credential Option I: Exercise Science, MS Option II: Physical Education Instruction, MS Option III: Community Leadership, MS
Korean	Modern Languages and Literatures Credential	

Program

L

Discipline	Program	Options
Labor Relations	Undergraduate Certificate Program in Labor Relations	
Labor and Working Class Studies	Labor and Working Class Studies Minor	
Language, Speech and Hearing	Clinical Rehabilitative Services Credential in Language, Speech, and Hearing	
Latin American Studies	Latin-American Studies, B.A. Latin American Studies, M.A. Central American Studies Minor Latin-American Studies Minor	
Law Enforcement	Criminal Justice, B.S.	Law Enforcement Option, BS
Liberal Studies	Liberal Studies, B.A. Science, Technology, and Medicine Studies Minor Women's and Gender Studies Minor Undergraduate Certificate Program in Women, Genders, and Sexualities	Option I: Interdisciplinary Studies in Culture and Society, BA Option II: Elementary Subject Matter Teacher Preparation, BA Option III: Blended Elementary Subject Matter Teacher Preparation, BA Option IV: Elementary Subject Matter Teacher Preparation: Directed Electives, BA
Literature	English, M.A.	Literature Option, MA

M

Discipline	Program	Options
Management	Business Administration: Option in Management, B.S. Business Administration: Option in Management, M.S. Business Administration, M.B.A. Management Minor Undergraduate Certificate Program in General Management The Post-Baccalaureate Certificate in Health Care Management	Management Option, MBA
Managerial and Cost Accounting	Accountancy, M.S.	Managerial and Cost Accounting Option, MS
Manufacturing Engineering	Engineering with Special Options, B.S.	Manufacturing Engineering Option, BS
Marketing	Undergraduate Certificate Program in Marketing Undergraduate Certificate Program in International Business Baccalaureate Certificate in Social Media Business Administration, B.S. Business Administration: Option in Marketing, M.S. Business Administration, M.B.A.	Marketing Option, BS Marketing Option, MBA
Marketing Management	Business Administration: Option in Marketing Management, B.S.	
Marriage, Family and Child Counseling	Counseling, M.S.	Marriage, Family and Child Counseling Option, MS
Marriage Family Therapy	Psychology, M.S.	Marriage Family Therapy Option, MS
Master of Business Administration (MBA)	Business Administration, M.B.A.	
Master of Fine Arts (MFA) in Art	Art, M.F.A.	
Master of Music (MMus)	Music, MM	
Master of Social Work (MSW)	Social Work, MSW	
Mathematics	Mathematics, B.A. Mathematics, B.S. Mathematics Minor Mathematics, M.S.	Applied Mathematics Option, BS Applied Mathematics Option, MS General Mathematics Option, MS Pure Mathematics Option, MA Single Subject Teaching Blended Option, BA Single Subject Teaching Option, BA Single Subject Teaching Option, BS
Mathematics Education in Elementary Classroom	Education: Option in Mathematics Education	
Mechanical Engineering	Mechanical Engineering, B.S. Mechanical Engineering, Integrated B.S./M.S. Mechanical Engineering, M.S.	
Mesoamerican Studies	Mesoamerican Studies Minor	
Mexican-American Studies	Mexican-American Studies, B.A. Central American Studies Minor Chicano Studies Minor Mesoamerican Studies Minor Mexican-American Studies, M.A.	Option I: General Program, BA Option II: Elementary Subject Matter Teacher Preparation, BA Option III: Blended Elementary Subject Matter Teacher Preparation, BA Option IV: Elementary Subject Matter Teacher Preparation, Directed Electives, BA
Microbiology	Microbiology, B.S. Microbiology Minor	
Middle and Secondary Curriculum and Instruction	Education, M.A.	Option MA, Areas of Concentration: Reform in Middle and Secondary Urban Schools Cross-cultural

		Language and academic development Content area specialization Language arts/literacy Mathematics/science pedagogy Instructional Technology
Mild/Moderate Disabilities	Special Education, M.A.	Mild/Moderate Disabilities Option, MA
Moderate/Severe Disabilities	Special Education, M.A.	Moderate/Severe Disabilities Option, MA
Multicultural/ Multilingual Special Education	Special Education, M.A.	Multicultural/ Multilingual Special Education Option, MA
Multimedia	Interdisciplinary Studies Minor in Multimedia	
Music	Music, B.A. Music, BMus Music, M.A. Music, MM Music Minor Music Credential Program	Conducting Option III, MMus Commercial Music Option II, MMus Composition Option I, BMus Composition Option I, MMus General Option I, MA Instrumental Conducting Option III, MMus Instrumental Performance Option IV, BMus Instrumental Performance Option IV, MMus Jazz Studies Option II, BMus Keyboard Performance Option V, BMus Keyboard Performance Option, IV, MMus Music Education Option VI, BMus Music Education Option II, MA Musicology Option III, MA Performance Option IV, MMus Vocal Performance Option III BMus Vocal Performance Option IV, MMus
Music Education	Music, M.A.	Music Education Option III, MA
Musicology	Music, M.A.	Musicology Option III, MA

N

Discipline	Program	Options
Natural Science	Natural Science, B.S.	Traditional Option, BS Biology Emphasis, BS (Traditional) Chemistry Emphasis, BS (Traditional) Geoscience Emphasis, BS (Traditional) Physics Emphasis, BS (Traditional) Biology Emphasis, BS (Blended)
Natural Science	Natural Science, B.S. Natural Science Subject Matter Program	Chemistry Emphasis, BS (Blended) Geoscience Emphasis, BS (Blended) Physics Emphasis, BS (Blended)
New Media Design and Production	Education: Option in New Media Design and Production, M.A.	
Nursing	Nursing, B.S. Nursing, M.S. Post Master's Certificate in Pediatric Nurse Practitioner (PNP) Speciality	Nursing Administration Option, MS Nursing Education Option, MS School Health: Credential Preparation Option, MS (OPTION SUSPENDED UNTIL 2014) School Health: Teaching Authorization Option, MS Nurse Practitioner: Adult-Gerontology Acute Care Option, MS Nurse Practitioner: Adult-Gerontology Primary Care Option, MS Nurse Practitioner: Family Option, MS Nurse Practitioner: Pediatric Option, MS (OPTION SUSPENDED UNTIL 2014) Nurse Practitioner: Psychiatric/Mental Health Option, MS Nurse Practitioner: School Health Option, MS
Nursing Education	Post Master's Certificate in Nursing Education	
Nutritional Science	Nutritional Science, B.S. Food Science and Technology, B.S. Nutritional Science, M.S. Undergraduate Certificate Program in Alternative Nutrition Certificate Program: Community Nutrition Food Safety Certificate Food Science Certificate Undergraduate Certificate Program in Sports Nutrition	Didactic Program in Dietetics Option (DPD), BS Nutrition Option, BS

O

Discipline	Program	Options
Operations Management	Undergraduate Certificate Program in Operations Management Business Administration: Option in Operations Management, B.S.	
Oral Health	Public Health, B.S.	Oral Health Option, BS
Orientation and Mobility	Special Education, M.A.	Clinical-Rehabilitative Services Credential in Visual Impairment and Blindness: Orientation and Mobility

P

Discipline	Program	Options
Pan-African Studies	Pan-African Studies Minor	
Parenting	Child Development, B.A.	Parenting Option, BA
Pediatric Acute Care Nurse Practitioner (ACNP)	Post Master's Certificate in Pediatric Nurse Practitioner (PNP) Speciality	
Pediatric Nurse Practitioner Specialty	Post Master's Certificate in Pediatric Nurse Practitioner (PNP) Speciality	
Philosophy	Philosophy, B.A. Classics Minor Philosophy, M.A. Philosophy General Minor Philosophy Prelaw Minor Graduate Certificate Program in Teaching Critical Thinking	General Option, BA Prelaw Option, BA
Physical and Health Impairments	Special Education, M.A.	Physical and Health Impairments Option, MA
Physical Education	Adapted Physical Education	
Physics	Physics, B.A. Physics, B.S. Physics Minor Physics Minor	Biophysics Option, BS Physics Emphasis (Blended), BS Physics Emphasis (Traditional), BS Course Option, MS Research Option, MS
Political Science	Political Science, B.A. Political Science General Minor Political Science Global Politics Minor Political Science, M.A. Political Science Prelegal Studies Minor Political Science Public Administration Minor Public Administration, M.S.	General Political Science Option, BA Global Politics Option, BA Prelegal Studies Option, BA Fast Tract Option for International Executives, MS Public Administration Option, BA
Prelaw	Political Science Prelegal Studies Minor Philosophy, B.A.	Prelaw Option, BA
Prelegal	Political Science, B.A. Business Administration, B.S.	Prelegal Option, BA Prelegal Option, BS
Preliminary Administrative Services	Preliminary Administrative Services Credential	
Prior Experiential Learning, Credit for (CPEL)	Courses	
Professional Administrative Services	Clear Administrative Services Credential	
Psychiatric/Mental Health Nurse Practitioner (P/MHNP)	Post Master's Certificate in Nurse Practitioner: Psychiatric/Mental Health	
Psychology	Psychology, B.A. Psychology, M.A. Psychology, M.S. Psychology Minor	Applied Behavior Analysis Option, MS Forensic Psychology Option, MS General Option, MS Marriage Family Therapy Option, MS
Public Administration	Political Science Public Administration Minor Public Administration, M.S. Political Science, B.A.	Fast Tract Option for International Executives, MS Public Administration Option, BA
Pupil Personnel Services	Pupil Personnel Services Credential	

R

Discipline	Program	Options
Reading	Education, M.A.	Reading Option, MA
Reading, California	California Reading Certificate	
Reading and Language Arts Specialist	Reading and Language Arts Specialist Credential	
Real Estate	Business Administration, B.S.	Real Estate Option, BS
Rehabilitation Services	Rehabilitation Services, B.S. Rehabilitation Services Minor	
Rehabilitation Counseling	Counseling, M.S.	Rehabilitation Counseling Option, MS
Religious Studies	Religious Studies Minor	
Research and Evaluation	Education, M.A.	Research and Evaluation Option, MA
Retail Professional Development	Undergraduate Certificate Program in Retail Professional Development	
Retailing	Business Administration, B.S.	Retailing Option, BS

S

Discipline	Program	Options
School Audiometrist	Undergraduate Certificate Program in School Audiometrist	
School-Based Family Counseling	Counseling, M.S.	School-Based Family Counseling Option, MS
School Counseling Leadership	Counseling, M.S.	School Counseling Leadership Option, MS
School Health	Nursing, M.S.	School Health Option, MS
School Nurse	Health Services Credential: School Nurse Services	
School Psychology	Counseling, M.S.	School Psychology Option, MS
School Psychology Internship	Counseling, M.S.	School Psychology Internship Credential

Secondary Teaching		
Single Subject	Single Subject Credential in Secondary Teaching	
Single Subject Teaching		
Social and Behavioral Sciences	Economics, B.A.	Social and Behavioral Sciences Option, BA
Social Media	Baccalaureate Certificate in Social Media	
Social Gerontology	Social Gerontology Minor	
Social Science	History, B.A.	Social Science Single Subject Teaching Credential, BA
Social Work	Social Work, B.A. Social Work, MSW	
Sociocultural Anthropology	Anthropology, M.A.	Sociocultural Anthropology Option, MA
Sociology	Sociology, B.A. Sociology, M.A. Law and Society Minor Social Gerontology Minor Sociology Minor	General Sociology Option, BA Inequalities and Diversity Option, BA Law and Society Option, BA
Spanish	Spanish, B.A. Spanish, M.A. Spanish Minor	General Option, BA Creative Writing in Spanish Option, BA Single-Subject Matter Preparation Program Option Single Subject Credential Program
Special Business	Business Administration, B.S.	Special Business Option, BS
Special Education	Special Education, M.A.	
Education Specialist Credentials	Education Specialist Credential Programs	Early Childhood Special Education Specialist Credential Mild/Moderate Disabilities Education Specialist Credential Moderate/Severe Disabilities Education Specialist Credential Physical and Health Impairments Education Specialist Credential Visual Impairments and Blindness Education Specialist Credential
Specialist in Alcohol and Drug Problems	Undergraduate Certificate Program in Specialist in Alcohol and Drug Problems	
Speech-Language Pathology	Communicative Disorders, M.A.	Speech-Language Pathology Option, MA
Sports Nutrition Certificate	Undergraduate Certificate Program in Sports Nutrition	
Storytelling	Graduate Certificate Program in Storytelling	
Studio Arts	Art, B.A. Art, M.A. Art, M.F.A.	Studio Arts Option, BA Studio Arts Option, MA Studio Arts Option, MFA
Supplementary Authorizations		

T

Discipline	Program	Options
Technology, and Industrial Education	Industrial Technology Credential Program	
Technology, Industrial	Industrial Technology, B.S. Aviation Administration, B.S.	
Teaching Critical Thinking	Graduate Certificate Program in Teaching Critical Thinking	
Teaching English to Speakers of Other Languages (TESOL)	Teaching English to Speakers of Other Languages (TESOL), M.A.	
Teaching Learners with Special Needs in General Education Classrooms	Post-Baccalaureate Certificate in Teaching Learners with Special Needs in General Education Classrooms	
Teaching Writing	Certificate Program in Teaching Writing	
Telecommunications and Film	Communication, B.A. Communication Studies, M.A.	Telecommunications and Film Option, BA Telecommunications and Film Option, MA
Television, Film and Media Studies	Television, Film and Media Studies, B.A. Television, Film and Theatre, M.F.A.	Animation Option, BA Broadcast Journalism Option, BA Telecommunications and Film Option, BA
Theatre Arts	Theatre Arts and Dance, B.A. Theatre Arts, M.A. Television, Film and Theatre, M.F.A.	
Theatre Arts and Dance	Theatre Arts and Dance, B.A. Theatre Arts and Dance Minor Theatre Arts and Dance Credential Program	
Transition Specialist	Certificate for Transition Specialist	
Transportation (Commercial)	Undergraduate Certificate Program in Commercial Transportation	

U

Discipline	Program	Options
University Courses	Courses	
Urban Learning	Urban Learning, B.A. Elementary Subject Matter Teacher Preparation Common Core	

V

Discipline	Program	Options
Visual Impairment and Blindness: Orientation and Mobility	Special Education, M.A.	Orientation and Mobility Option, MA
Visual Impairment and Blindness: Teacher Education	Special Education, M.A.	Teacher Education Option, MA
Visual Impairments and Blindness	Education Specialist Credential Programs	
Vocal Performance	Music, BMus Music, MM	Option III, BMus Option IV, MMus

W

Discipline	Program	Options
Women's and Gender Studies	Women's and Gender Studies Minor	
Women, Genders, and Sexualities, Study of	Undergraduate Certificate Program in Women, Genders, and Sexualities	

Y

Discipline	Program	Options
Youth Agency Administration	Child Development, B.A. Undergraduate Certificate Program in Youth Agency Administration	Specialization in Child Development, Option I

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Full-time Tenured and Tenure-track Faculty

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Listings corrected to July 13, 2011. Year in parentheses indicates year of appointment as a full-time tenure-track faculty member.

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A

Russell J. Abbott (1987) Professor of Computer Science
B.A., 1962, Columbia University; M.A., 1963, Harvard University; Ph.D., 1973, University of Southern California

Melina Abdullah (2002) Acting Chair and Associate Professor of Pan African Studies
B.A., 1994, Howard University, M.A., 1996, Ph.D., 2002, University of Southern California

Mohammed K. Abed (2008) Assistant Professor of Philosophy
B.A., 1999, Victoria University, New Zealand; MSC, 2001, University of London

Emily Acevedo (2008) Assistant Professor of Political Science
B.A., 1992, University of California Berkley, M.A., 1999, Claremont Graduate University, Ph.D., 2007, Claremont Graduate University

Raquel Ackerman (1987) Associate Professor of Anthropology
B.A., 1976, Columbia University; Ph.D., 1986, Kings' College, University of Cambridge, U.K.

Laura Chey Acuña (1990) Professor of Broadcasting
B.A., 1978, California State College, Long Beach; M.F.A., 1986, University of California, Los Angeles

Martin J. Adamian (2006) Associate Professor of Political Science
B.A., 1993, Central Michigan University; J.D., 1996, Wayne State University Law School; Ph.D., 2006, Colorado State University.

Pauline Agbayani (2002) Professor of Social Work
B.A., 1981, M.S.W., 1984, Ph.D., 1993, University of California, Los Angeles

Andres Aguilar (2013) Assistant Professor of Biological Sciences
B.S., 1997, Humboldt State University; Ph.D., 2003, University of California, Los Angeles

Manuel Aguilar-Moreno (1999) Professor of Art
Diploma in Education, 1994, Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico; Diploma in History of Mexico, 1995, Colegio de Jalisco, Mexico; M.A., 1997; Ph.D., 2000, University of Texas, Austin

Olaiya Aina (2006) Professor of Education
B.A., 1989, M.Ed., 1990, University of Ibadan, Nigeria; Ph.D., 1996, University of Alberta, Canada

Vladimir N. Akis (1982) Professor of Computer Science
B.A., 1976, California State College, Sacramento; M.A., 1977, University of California, Berkeley; Ph.D., 1982, University of California, Davis

Bryant Alexander (1998) Professor of Communication Studies
B.A., 1985, M.S., 1987, University of Southwestern Louisiana; Ph.D., 1998, Southern Illinois University Carbondale

Radi A. Al-Jishi (1986) Professor of Physics
B.S., 1975, American University of Beirut, Lebanon; Ph.D., 1982, Massachusetts Institute of Technology

Emily L. Allen (2013) Dean, College of Engineering, Computer Science, and Technology and Professor of Mechanical Engineering
B.S. with Honors, 1984, Columbia University, M.S. 1988, Stanford University, Ph.D., 1992, Stanford University

Bradford Allison (2007) Assistant Professor of Education
B.A., 1969, Carthage College, Kenosha; M.S., 1976, University of Wisconsin-Milwaukee; Ph.D., 1981, University of Wisconsin-Madison

Joanne Altschuler (1995) Professor of Social Work
A.B., 1971, Indiana University; M.A., 1975, Hebrew Union College; M.A., 1975, Ph.D., 1994, University of Southern California

Gaston Alzate (2006) Professor of Spanish
B.A., 1993, Universidad Javeriana, Colombia; M.A., 1991, Universidad del Rosario, Colombia; Ph.D., 1997, Arizona State University

Paul Anderson (2009) Assistant Professor of Art History
B.A., 1984, M.A., 1987, Ph.D., 2008, University of California, Santa Barbara Art History

Gregory D. Andranovich

Professor of Political Science

(1993)

B.A., 1978, Clinch Valley College University of Virginia - Wise; M.A., 1980, George Mason University; Ph.D., 1984, University of California, Riverside

Lois N. Andre-Bechely (2001) Associate Professor of Education

B.A., 1988, M.A., 1989, Ph.D., 1999, University of California, Los Angeles

Gretchen Angelo (1995) Professor of French

B.A., 1987, State University of New York at Buffalo; Ph.D., 1994, Yale University

Konrad A. Aniol (1984) Professor of Physics

B.S., 1970, University of Illinois; M.S., 1973, McMaster University, Canada; Ph.D., 1977, Australian National University

Paula Arvedson (1999) Associate Professor of Education

B.A., 1982, M.A., 1984, California State University, Los Angeles; Ph.D., 1999, University of California, Los Angeles

Sheri Atwater (2003) Associate Professor of Education

B.A., 1996, Stanford University; M.A., 1999; Ph.D., 2003, University of California, Berkeley

Mohammad Auwal (1994) Professor of Communication Studies

B.A., 1981, Jahangirnagar University, Bangladesh; M.A., 1991, Ph.D., 1994, Ohio University

Mohammad B. Ayati (1982) Professor of Information Systems

B.S., 1966, University of Tehran, Iran; M.S., 1975, Ph.D., 1980, University of California, Los Angeles

B

Yong Ba (2000) Professor of Chemistry

B.S., 1986, M.A., 1989, Jilin University, China, Ph.D., 1995, Gerhard-Mercator-University of Duisburg, Germany

Kevin Baaske (1988) Professor of Communication Studies

B.A., 1976, M.A., 1978, University of Wisconsin-Milwaukee; Ph.D., 1989, University of Southern California

Sofya Bagdasaryan (2009) Assistant Professor of Social Work

BA, 1997, University of California, San Diego, MSW, 2001, University of California, Los Angeles, Ph.D., 2005, University of California, Los Angeles,

Chunsheng Bai (1998) Professor of Communication Studies

B.A., 1984, Tianjin Foreign Language Institute, People's Republic of China; M.A., 1988, State University of New York, Albany; Ph.D., 1998, University of Southern California

Beth Baker-Cristales (2002) Director of Latin American Studies and Professor of Anthropology

B.A., 1989, Sarah Lawrence College; M.A., 1991, Ph.D., 1999, University of New Mexico

Mark Balaguer (1992) Professor of Philosophy

B.A., B.S., 1986, University of Colorado; Ph.D., 1992, City University of New York

Pablo Baler (2006) Associate Professor of Spanish

B.A., 1991, Hebrew University of Jerusalem; M.A., 1994, Stanford University; Ph.D., 2006, University of California, Berkeley

Thomas Barkley, Jr. (2001) Professor of Nursing

B.S.N., 1986, University of Alabama; M.S.N., 1989, University of Virginia; D.S.N., 1994, University of Alabama at Birmingham

Craig Barrett (2013) Assistant Professor of Biological Sciences

B.S., 2002, Hartwich College; M.S., 2004, SUNY Binghamton; Ph.D., 2010, Ohio State University

Deborah R. Baskin (1995) Professor of Criminal Justice and Criminalistics

B.A., 1975, State University of New York-Buffalo; M.S., 1976, Northeastern University; Ph.D., 1984, University of Pennsylvania

Robert Benjamin Bateman (2009) Associate Professor of English and Liberal Studies

B.A., 2003, Ph.D., 2009, University of Virginia

Nicholas Bauch (2011) Assistant Professor of Geography

B.S., 2001, University of Wisconsin-Madison; M.S., 2005; Ph.D., 2010, UCLA

Jon Beaupré (2002) Associate Professor of Broadcasting

B.A., 1976, University of Nevada, M.F.A., 1978, New York University

Gerald Beer (1971) Professor of Mathematics

B.A., 1967, University of California, Santa Barbara; M.A., 1969, Ph.D., 1971, University of California, Los Angeles

Theodore S. Bell (1998) Professor of Psychology

B.M., 1977, M.A., 1981, University of Louisville; Ph.D., 1986, University of California, Los Angeles

Beryl L. Bellman (1989) Professor of Communication Studies

B.A., 1964, M.A., 1966, University of California, Los Angeles; Ph.D., 1971, University of California, Irvine

Dolores Beltran (2003) Assistant Professor of Education

B.A., 1976, Pacific Oaks College; Ph.D., 2004, University of Southern California

Jeffrey W. Benedict (1989) Professor of Music

B.Mus., 1980, M.A., 1982, University of Denver; D.M.A., 1992, University of Texas, Austin

Blair J. Berkley (1995) Professor of Management

B.S., 1979, Ohio State University; M.B.A., 1980, M.A., 1985, University of Arizona; Ph.D., 1988, University of Southern California

Luis Bermudez (2002) **Professor of Art**
B.A., 1976, CSU, Northridge, M.A., 1978, CSU, Northridge, M.F.A., 1980, University of California, Los Angeles

Oscar O. Bernal (1997) **Professor of Physics**
B.S., 1986, Universidad Nacional de Colombia, Bogota; M.S., 1989, California State University, Los Angeles; Ph.D., 1994, University of California, Riverside

Enrique Berumen (1997) **Associate Professor of Broadcasting**
B.A., 1988, University of California, Santa Cruz; M.F.A., 1991, University of Southern California

Sherwood Best (1993) **Professor of Education**
B.A., 1973, Pitzer College; M.A., 1980, California State University, Los Angeles; Ph.D., 1995, University of California, Riverside

Talia Bettcher (2000) **Associate Professor of Philosophy**
B.A., 1991, York University, Canada; Ph.D., 1999, University of California, Los Angeles

Roberta L. Beyer (2009) **Associate Professor of Kinesiology**
BS, 1981, California State Polytechnic, Pomona, MS, 1987, California State Polytechnic, Pomona, Ph.D., 1993, Texas Woman's University, Denton, Texas

Jens D. Biermeier (1985) **Professor of Marketing**
B.S., 1974, Fachhochschule of Cologne, Germany; M.B.A., 1977, Ph.D., 1982, University of Essen, Germany

Kim M. Bishop (1993) **Chair of Geosciences and Environment and Professor of Geological Sciences**
B.S., 1979, University of California, Los Angeles; M.S., 1985, California State University, Northridge; Ph.D., 1994, University of Southern California

Carol Blaszczyński (1997) **Professor of Information Systems**
B.S., 1978, M.A., 1982, California State University, Los Angeles; Ph.D., 1997, Claremont Graduate School

David Blekhan (2007) **Associate Professor of Technology**
B.S., M.S., 1995, Saint Petersburg State Technical University, Ph.D., 2002, State University of New York - Buffalo

Alan J. Bloom (1981) **Professor of Broadcasting**
B.A., 1973, Sonoma State College; M.F.A., 1975, California College of Arts and Crafts

Cristina Bodinger-de Uriarte (1994) **Professor of Sociology**
B.A., 1978, Yale University; Ph.D., 1989, Harvard University

Daniel Borough (2002) **Assistant Professor of Geography**
B.A., 1993, M.A., 1999, California State University, Los Angeles; Ph.D., 2002, Arizona State University.

Maria Kathleen Boss (1988) **Professor of Finance and Law**
B.A., 1965, University of California, Davis; J.D., 1974, University of California, Hastings College of Law; Admitted to the Bar, 1974, California

Scott Bowman (1997) **Chair and Professor of Political Science**
B.A., 1971, University of California, Berkeley; M.A., 1974, Ph.D., 1989, University of California, Los Angeles

James Brady (1998) **Professor of Anthropology**
B.A., 1970, University of California, Berkeley; M.A., 1974, California State College, Los Angeles; Ph.D., 1989, University of California, Los Angeles

Scott A. Breivold (2000) **Librarian**
B.A., 1985, Minnesota State University-Moorehead; M.L.S, 1986, University of Wisconsin-Madison

Dwan M. Bridges (1991) **Professor of Kinesiology**
B.S., 1975, M.Ed., 1976, Louisiana State University; M.S., 1984, Loyola University, Louisiana; Ph.D., 1992, Ohio State University

Martin G. Brodwin (1988) **Professor of Education**
B.A., 1966, University of California, Los Angeles; M.S., 1969, California State College, Los Angeles; Ph.D., 1973, Michigan State University

Melissa A. Broeckelman-Post (2009) **Assistant Professor of Quantitative Research Methods**
B.A., 2004, M.A., 2005, Kansas State University, Ph.D, 2009, Ohio University

Gary Brookfield (2003) **Associate Professor of Mathematics**
B.S., 1978, M.S. 1981, University of British Columbia Vancouver; Ph.D., 1997, University of California Santa Barbara

Karin A. Elliott Brown (1998) **Associate Dean, Office of Graduate Studies and Research**
B.S.W., 1984, Cornell University; M.S.W., 1986; M.A., 1988, Ph.D., 1990, University of Michigan

Elizabeth R. Bryant (1990) **Professor of Art**
B.F.A., 1973, Moore College of Art; M.F.A., 1980, University of Florida

Lawson Bush (2002) **Professor of Education**
B.S., 1993, M.A., 1994, California Polytechnic State University, San Luis Obispo, Ph.D., 1998, Claremont Graduate School

Mary E. Bush (1993) **Professor of English**
B.A., 1972, State University of New York at Buffalo; M.A., 1980, D.A., 1984, Syracuse University

C

Michael A. Calabrese (1994) **Professor of English**
B.A., 1983, Columbia University; M.A., 1986, Ph.D., 1991, University of Virginia

Bradley Campbell (2008) **Assistant Professor of Sociology**
B.A., 1996, Lee College; M.A., 2000, Clemson University; Ph.D., 2008, University of Virginia

Randy V. Campbell (1991) **Professor of Education**
B.A., 1976, B.S., 1976, University of the Pacific; M.S., 1981, Rh.D., 1988, Southern Illinois University at Carbondale

Roberto Cantú (1976) **Professor of Chicano Studies and English**
B.A., 1968, M.A., 1970, California State College, San Diego; Ph.D., 1982, University of California, Los Angeles

Anna Carastathis (2009) **Assistant Professor of Feminist Philosophy**
B.A., 2003, University of Alberta; Ph.D., 2009, McGill University, Montreal

Desdemona Cardoza (1988) **Professor of Psychology**
B.A., 1975, University of California, Berkeley; M.A., 1979, Ph.D., 1982, University of California, Riverside

Samantha Carrington (1986) **Associate Professor of Economics and Statistics**
B.A., 1974, National University of Iran; M.A., 1981, Ph.D., 1985, University of California, Santa Barbara

Michael J. Carter (1990) **Associate Professor of Education**
B.A., 1979, University of California, Los Angeles; M.A., 1982, California State University, Northridge; MFCC, 1984, Ph.D., 1993, University of California, Los Angeles

Mario Castaneda (2008) **Assistant Professor of Education**
B.A., 1980, California State University, Long Beach; M.A., 1997, University of San Francisco; Ed.D., 2006, Pepperdine University

Mauricio Castillo (2007) **Associate Professor of Technology**
B.S., 1997, M.S., 2003, California State University, Los Angeles, Ph.D., 2007, Colorado State University

Ramon A. Castillo (2003) **Associate Professor of Economics and Statistics**
B.A., 1993, California State University, Northridge; M.A., 1998, University of Southern California, Irvine; Ph.D., 2000, University of California, Irvine

Tammy Chan (2009) **Assistant Professor of Mechanical Engineering**
B.S., 1994, Rice University, M.S., 1996, University of California, Irvine, Ph.D., 2005, University of California, Irvine

Derek K. Chang (1983) **Professor of Mathematics**
M.S., 1978, Ph.D., 1983, University of California, Riverside

Tammy Chan (2009) **Assistant Professor of Mechanical Engineering**
B.S., 1994, Rice University, M.S., 1996, University of California, Irvine, Ph.D., 2005, University of California, Irvine

Lena Chao (1993) **Professor of Communication Studies**
B.A., 1978, University of California, Los Angeles; M.A., 1983, Ph.D., 1991, University of Southern California

Hema Chari (1992) **Professor of English**
M.A., 1988, Ph.D., 1992, University of Southern California

Choi Chatterjee (1994) **Professor of History**
B.A., 1984, M.A., 1989, University of Calcutta, India; Ph.D., 1994, Indiana University

Anna Chee (1998) **Associate Professor of Education**
B.A., 1986, California State University, Los Angeles; M.S., 1995, University of Southern California, Ph.D., 2002, University of Southern California

Li-Hsueh Chen (1998) **Professor of Economics and Statistics**
B.A., 1992, National Taiwan University; M.A., 1995, Ph.D., 1998, University of Michigan

Pearl Chen (2002) **Associate Professor of Education**
B.S., 1984, Chinese Culture University, Taiwan, M.S., 1992, Ph.D., 1999, Kansas State University, Manhattan

Mikyung Mika Cho (1991) **Chair and Professor of Art**
B.F.A., 1982, M.F.A., 1984, Sook Myung Women's University, Korea; M.A., 1988, Ph.D., 1992, Illinois State University

Wai Kit Choi (2007) **Associate Professor of Sociology**
B.A., 1990, University of Wisconsin; M.A., 2000, University of Chicago; Ph.D., 2007, University of California Irvine

Jon D. Christensen (2009) **Assistant Professor of Nursing**
BS, 1989, Weber State University, Ogden, Utah, MS, 2000, Brigham Young University, Provo, Utah

Margaret D. Clark (1999) **Associate Professor of Education**
B.A., 1980, M.A., 1983, California State University, Los Angeles; Ph.D., 1998, University of California, Los Angeles/California State University, Los Angeles

Msia Kibona Clark (2009) **Assistant Professor of Pan-African Studies**
BA, 1998, Johnson C. Smith, MA, 2001, American University, Ph.D., 2001, Howard University

Steven D. Classen (2000) **Associate Professor of Communication Studies**
B.A., 1978, Biola University; M.A., 1986, University of Oregon; Ph.D., 1995, University of Wisconsin

Nancy J. Cohick (2001) **Professor of Communication Disorders**
B.A., 1993, University of California, Santa Barbara; M.A., 1994, University of the Pacific; Ph.D., 2001, University of Nebraska-Lincoln

David N. Connors (1990) **Acting Associate Dean, College of Arts and Letters and Professor of Music**
B.Mus., B.M.E., 1980, Bradley University; M.M., 1988, D.M.E., 1995, University of Cincinnati

Randolph Cooper (2001) **Associate Professor of Mathematics**
B.S., 1992, California State University, Los Angeles; Ph.D., 1996, University of California, Los Angeles

Andrew Cornwell (1997) **Professor of Kinesiology**
B.S., 1983, Portsmouth Polytechnic, England; M.S., 1987, Southampton University, England; M.S., 1992, Colorado State University; Ph.D., 1997, Louisiana State University

Maria Dolores Costa (1992) **Chair of MLL and Professor of Spanish**
B.A., 1985, M.A., 1987, Kent State University; Ph.D., 1992, University of Massachusetts

Anthony Cox (2002) **Associate Professor of Communication Studies**
B.A., 1970, M.F.A., 1972, University of California, Los Angeles

Susan Crimmins (2000) **Professor of Social Work**
B.S., 1977, Northeastern University; M.S.W., 1984, Hunter College, M. Phil., Ph.D., 1995, City University of New York, John Jay College of Criminal Justice

Gar Culbert (2009) **Assistant Professor of Political Science**
B.A., 1997, University of California, Santa Cruz; M.A., 2001, Brandeis University; Ph.D., 2010, University of Virginia

D

Fred Daneshgaran (1987) **Chair and Professor of Electrical Engineering**
B.S., 1983, M.S., 1985, California State University, Los Angeles; Ph.D., 1992, University of California, Los Angeles

Abbas Daneshvari (1982) **Professor of Art**
B.S., 1969, California State College, Hayward; M.A., 1971, University of Massachusetts; Ph.D., 1977, University of California, Los Angeles

Taylor Dark (2007) **Associate Professor of Political Science**
B.A., 1983, University of California Berkeley; M.A., 1986, University of California Berkeley; Ph.D., 1993, University of California Berkeley

Rebecca L. Davis (1990) **Professor of Art**
B.S., 1977, University of Delaware; Ph.D., 1984, University of Maryland

Paul De Castro (1997) **Professor of Music**
B.A., 1989, M.A., 1992, California State University, Los Angeles; D.M.A., 2002, University of Texas at Austin

Ray D. de Leon (2001) **Professor of Kinesiology**
B.S., 1990, Ph.D., 1998, University of California, Los Angeles

D. Robert DeChaine (2004) **Professor of Liberal Studies and Communication Studies**
B.A., 1994, CSU, San Bernardino, M.A., 1996, CSU, Los Angeles, Ph.D., 2002, The Claremont Graduate University

Jessica L. DeShazo (2013) **Assistant Professor of Political Science**
B.A., 2005, University of Louisiana at Lafayette; PhD, in progress, Northern Arizona University

Richard C. Dean (2009) **Assistant Professor of Kant and Ethics**
B.A., 1986, University of Oregon; M.A., 1991, Ph.D., 1999, University of North Carolina at Chapel Hill

Rakel Delevi (2009) **Assistant Professor of Child and Family Studies**
BS, BA, 2003, Koc University, Istanbul, Turkey, MA, 2005, Syracuse University, New York, Ph.D., 2008, Florida State University, Tallahassee

Roger Delgado (1979) **Professor of Social Work**
B.S., 1967, Brigham Young University; M.S.W., 1970, University of Texas; Ph.D., 1984, University of Southern California

Jessica Michele Dennis (2005) **Associate Professor of Psychology**
B.A., 1998, University of California Riverside, M.A., 2000, University of California Riverside, Ph.D., 2003, University of California Riverside

Robert A. Desharnais (1988) **Professor of Biological Sciences**
B.A., 1976, University of Massachusetts at Boston; M.S., 1979, Ph.D., 1982, University of Rhode Island

David Díaz (2007) **Professor of Chicano Studies**
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B.Sc., 1995, University of Bombay (St. Xavier's College), India; M.Sc., 1997, Indian Institute of Technology—Bombay, India; Ph.D., 2003, University of Illinois at Urbana-Champaign

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B.A., 2003, Tufts University; M.A. 2006, Ph.D., 2010, Stony Brook University

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B.A., 1990, University of California, Berkeley; M.A., 1994, Ph.D., 1996, Cornell University

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B.S., 1983, Kutztown University of Pennsylvania; M.Ed., 1984, University of Arkansas; Ph.D., 1993, California State University, Los Angeles/University of California, Los Angeles

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B.S., 1970, Massachusetts Institute of Technology; M.A., 1973, Ph.D., 1979, University of California, Berkeley

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B.Soc.Sc., 1974, Hong Kong Chinese University; M.A., 1978, University of North Carolina; M.A., 1979, Ph.D., 1982, Hofstra University

Jai Hong (2002) **Associate Professor of Technology**
B.A., 1983, Kyungwon College, Korea; B.A., 1986, William Penn College; M.S., 1989, Ph.D., 1993, Iowa State University

Mohammed (David) I. Hossain (2003) **Associate Professor of Accounting**
B.S., 1984, Texas A&M University; M.S., 1986, Texas A&M University; Ph.D., 2003, Rutgers, The State University of New Jersey

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B.S., 1987, Kansas State University; M.B.A., 1990, California State University, Long Beach; Ph.D., 1997, University of California, Irvine

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B.S., 1970, National Taiwan University; M.S., 1973, M.Eng., 1974, Cornell University; Ph.D., 1979, University of California, Davis; Registered Professional Mechanical Engineer, 1982, California

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Medicine, 1977, Shanghai College of Chines Traditional Medicine; M.S., 1988, Ph.D., 1990, Pennsylvania State University

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B.S., 1968, University of Wisconsin; M.Ed., 1975, Ed.D., 1980, Columbia University

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B.S., 1970, State University of New York at Stony Brook; Ph.D., 1975, University of California, Los Angeles

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B.A., 1995, Occidental College, Los Angeles; M.S.W., 1999, CSU, Long Beach; Ph.D., 2003, University of California, Los Angeles

I

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B.A., 1975, University of California, Santa Barbara; M.S., 1978, University of Wisconsin-Stevens Point; Ph.D., 1983, University of Kansas

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B.S., 1996, Emory University; Ph.D., 2002, The George Washington University

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B.S., 1981, California Lutheran University; M.S., 1988, California State University, Northridge; Dr.P.H., 2003, Loma Linda University

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B.S., 1989; M.S. 1992; B.A. 1993, University of Bombay; Ph.D., 2003, University of Northern Colorado

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B.S., 1961, Springfield College; M.A., 1969, William Patterson University; Ed.D., 1985, Rutgers University

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- Susan W. Kane (2001)** **Associate Professor of Music**
B.M., 1983, University of Iowa; M.M., 1990, D.M.A., 2000, University of Cincinnati
- Tanya Kane-Parry (2001)** **Associate Professor of Theatre Arts**
B.F.A., 1988, New York University; M.F.A., 2001, University of Massachusetts Amherst
- Eun-Young Elaine Kang (2004)** **Associate Professor of Computer Science**
B.S., Sejong University, 1992, M.S., Hongik University, 1995, Ph.D., 2003, University of Southern California
- Maria Karafilis (1999)** **Professor of English**
B.A., 1990, University of California, Berkeley; M.A., 1993, University of Maryland at College Park; Ph. D., 1999, University of Maryland at College Park
- Kamran Karimlou (1984)** **Professor of Electrical and Computer Engineering**
B.S., 1977, University of Sussex, England; M.S., 1978, University of North Wales; Ph.D., 1984, University of Southern California
- Alice K. Kawakami (2006)** **University Librarian**
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- John M. Kennedy (1996)** **Professor of Music**
B.M., 1984, Wallace College; M.M., 1988, D.M.A., 2002, University of Michigan
- Robert Kennison (2006)** **Associate Professor of Psychology**
B.A., 1986, California State University, Fullerton; M.A., 1991, California State University, Fullerton; Ph.D., 2000, Claremont Graduate University
- Irving Kett (1971)** **Professor of Civil Engineering**
B.C.E., 1943 City College of New York; M.C.E., 1949, Polytechnic Institute of Brooklyn; M.B.A., 1954, D.Sc.Eng. 1965, New York University; Registered Professional Engineer, 1949, New York; Licensed Land Surveyor, 1956, New York; Registered Professional Civil Engineer, 1972, California
- Ryan Kettler (2005)** **Assistant Professor of Education**
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- Nazareth Khodiguian (1990)** **Director, School of Kinesiology and Nutritional Science and Professor of Kinesiology**
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B.A., 1986, Hang Yang University (Korea); M.S., 1989, Han kuk University of Foreign Studies (Korea); M.S., 1994, University of Pittsburgh; M.E., 1997, Purdue University; Ph.D., 2001, Purdue University
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- Neung-Jip Kim (1988)** **Professor of Accounting**
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- Kimberly R. King (1998)** **Associate Professor of Psychology**
B.A., 1988, Yale University; M.A., 1991, Ph.D., 1998, University of California, Los Angeles
- Edward S. Klein (1999)** **Chair and Professor of Communication Disorders**
B.A., 1973, M.A., 1975, George Washington University; Ph.D., 1981, Pennsylvania State University
- Andrew Knighton (2006)** **Associate Professor of English**
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- Eric Kohatsu (1993)** **Associate Professor of Psychology**
B.A., 1982, M.A., 1986, University of Hawaii; Ed.M., 1987, Rutgers University; Ph.D., 1992, University of Maryland
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B.A., 1991, Kobe University, Japan; M.Ed., 1994, Kobe University, Japan; M.A. 1995, Ohio State University; M.A., 1999, University of Minnesota;

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B.A., 1995, University of Texas Austin; M.A., 1999, Johns Hopkins University; Ph.D., 2006, The Johns Hopkins University

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B.A., 1984, Korea University; M.A., 1995, New York University; Ph.D., 2003, University of California, Los Angeles

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B.A., 1968, Washington University; M.Ph., 1971, Ph.D., 1974, Yale University

- Ross Levinson (2007)** **Assistant Professor of Music**
B.A., 1977, Binghamton University; M.M., 2007, California State University, Los Angeles
- Cheng Li (1988)** **Associate Professor of Management**
B.Eng., 1982, Shanghai Institute of Mechanical Engineering; M.B.A., 1986, Ph.D., 1989, Indiana University
- Timothy C. Lim (1997)** **Professor of Political Science**
B.S., 1982, Lewis and Clark College; M.I.A., 1987, Columbia University; Ph.D., 1996, University of Hawaii, Manoa
- Pei-Shiuan Lin (2013)** **Assistant Professor of Marketing**
B.A., 2004, University of British Columbia; M.Sc., 2008, University of Western Ontario; Ph.D., 2013, University of British Columbia
- Rina Ling (1976)** **Professor of Mathematics**
B.S., 1970, M.S., 1972, Ph.D., 1976, University of Illinois
- Ethan B. Lipton (1984)** **Professor of Technology**
B.A., 1976, M.A., 1983, California State University, Los Angeles; Ph.D., 1990, University of Southern California
- Charles Liu (1999)** **Professor of Electrical and Computer Engineering**
B.S., 1991, National Taiwan University, Taiwan; M.S., 1994, Ph.D., 1998, University of Southern California.
- Daphne Liu (1991)** **Professor of Mathematics**
B.S., National Central University, Taiwan; Ph.D., University of South Carolina
- Jun Liu (1992)** **Professor of English**
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- Paul Cheng-Hsin Liu (2000)** **Professor of Technology**
B.S., 1980, Tunghai University in Taiwan; M.S., 1984, University of Oklahoma; Ph.D., 1990, Auburn University
- Yafen Lo (2003)** **Associate Professor of Child and Family Studies**
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- William M. London (2007)** **Professor of Health Science**
B.A., 1980, B.A., 1980, Ed.M., 1984, Ed.M., 1984, Ed.D., 1986, University at Buffalo, The State University of New York; M.P.H., 1996, Loma Linda University
- Jean Loo (1985)** **Professor of Finance and Law**
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- M**
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- Victor A. Manalo (2002)** **Associate Professor of Social Work**
B.A., 1985, Marquette University; M.S.W., 1993, California State University, Long Beach; Ph.D., 2001, University of Southern California
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Doctor of Veterinary Medicine, 1990, Kerala Agricultural University, India, MS, 1993, Kerala Agricultural University, India, Ph.D., 2006, Clemson University, South Carolina
- Alejandra Marchevsky (1999)** **Professor of Liberal Studies**
B.A., 1992, University of California at Berkeley; M.A., 1995, Ph.D., 2004, University of Michigan, Ann Arbor
- Paola Marin (2006)** **Associate Professor of Spanish**
B.A., 1994, Universidad Javeriana, Colombia; M.A., 1996, Arizona State University; Ph.D., 2002, University of Minnesota, Twin Cities
- María-Fernanda Márquez (2009)** **Assistant Professor of Spanish Literature**
B.A., 1999, Bently College; M.A., 2002, University of Notre Dame; Ph.D., 2009, University of California, Berkeley
- Robert Martin (2005)** **Professor of Art**
B.S., 1978, Florida A&M University; M.F.A., 1981, University of Wisconsin
- Afshin Matin-asgari (2001)** **Professor of History**
B.A., 1979, M.A., 1980, California State University, Los Angeles; Ph.D., 1993, University of California, Los Angeles
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B.A., 1986, University of Oregon; M.A., 1989, Ph.D., 1994, University of Hawaii at Manoa
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Psychology B.A., 1983, Queens University, Canada; Ph.D., 1993, McGill University, Canada

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B.B.A., 1973, Tehran Business College, Iran; M.B.A., 1976, Ph.D., 1981, University of Texas, Austin

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B.A., 1979, California State University, Los Angeles, B.S., 1985, Los Angeles College of Chiropractic, M.S., 1996, California State University, Los Angeles

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M.D., 1989, University of Mainz, Germany; Thesis, 1990, University of Mainz, Germany

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B.Sc., 1996, L.L.B., 1998, University of Mumbai, India; M.B.A., 2001, Amravati University, India; M.S. (HRMN), 2006, Ph.D., 2007, Auburn University

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B.A., 1991, University of Pennsylvania; M.A., 1994, Washington University of St. Louis; Ph.D., 2001, University of Chicago

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B.A., 1964, Sacramento State College; M.S., 1965, Ph.D., 1971, University of California, Davis

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B.S., 1978, University of Sri Lanka; M.S., 1981, Portland State University; Ph.D., 1985, Case Western Reserve University; Registered Professional Civil Engineer, 1994, California

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B.S., 1982, Fujian Teacher's University, People's Republic of China; Ph.D., 1994, Louisiana State University

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B.A., 1978 (Philosophy), B.A., 1980 (English), California State College, Los Angeles; A.M., 1983, Ph.D., 1988, Harvard University

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B.S. university of Belgrade, Yugoslavia, M.S. , Ph.D., 2001, Rutgers University

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B.A., 1974, Oberlin College, M.A., 1975, University of Chicago, Ph.D., 1996, University of Chicago

John J. Ramirez (1989) Professor of Broadcasting
B.A., 1977, M.A., 1980, Ph.D., 1991, University of California, Los Angeles

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B.A., 1977, Ph.D., 1990, University of California, Santa Cruz

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B.S., 1985, St. Xavier's College, India; M.S., 1990, Indian Institute of Technology, India; M.S. 1995, Ph.D. 2001, Simon Fraser University, Canada

Adam Reed (2000) Professor of Information Systems
B.S., 1967, M.S., 1970, Massachusetts Institute of Technology; Ph.D., 1984, University of Oregon

James F. Refalo (2003) Professor of Finance and Law
B.S., 1983, University of California, Irvine; M.B.A., 1992, Cornell University; Ph.D., 2000, Lenard M. Stern Graduate School of Business

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B.A., 1988, Williams College; M.A., Ph.D., 1994, University of Minnesota

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B.A., 1971, Simmons College; M.A., 1974, University of California, Los Angeles; Ph.D., 1981, University of Massachusetts

Edward H. Rezayi (1983) **Professor of Physics**
B.S., 1972, Worcester Polytechnic Institute; Ph.D., 1979, Stanford University

Siyon Y. Rhee (1993) **Professor of Social Work**
B.A., 1974, Seoul National University, Korea; M.S.W., 1981, D.S.W., 1988, University of California, Los Angeles

Leila Ricci (2009) **Assistant Professor of Education**
B.A., 1994, UCLA; M.A., 1997, California State University, Northridge; Ph.D., 2004, University of California, Los Angeles

Heidi Rose Riggio (2007) **Associate Professor of Psychology**
B.A., 1993, California State University Fullerton; M.A., 1996, California State University Fullerton; Ph.D., 2001, Claremont Graduate University

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B.Sc., 1987, King's College, University of London, England; M.Sc., 1989, University of Strathclyde, Scotland; M.Phil., 1998, Ph.D., 2002, City University of New York

José P. Rodriguez (1992) **Professor of Physics and Astronomy**
B.S., 1982, Massachusetts Institute of Technology; Ph.D., 1987, University of Illinois at Urbana-Champaign

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B.A., 1978, California State College, Long Beach; M.A., 1980, Ph.D., 1983, University of California, Riverside

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B.A., 1975, M.Ed., 1978, St. Lawrence University; Ed.D., 1984, Northern Arizona University

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B.S., 1972, M.F.A., 1974, Florida State University

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BS, 1993, Roehampton College, University of Surrey; M.A., 2004, California State University, Los Angeles

James Rudd (2003) **Associate Professor of Chemistry**
B.S., 1992, Harvey Mudd College; M.S., 1999, Ph.D., 2001, Iowa State University

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B.S., 1983, Chapman University; Ph.D., 1988, M.D., 1990, University of California, Irvine

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B.S.N., 1979, University of Cincinnati; M.S.N., 1984, Case Western Reserve University; M.B.A., 1992, Claremont Graduate School; Ph.D., 1998, University of California, Los Angeles

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B.A., 1966, M.S., 1968, California State College, Los Angeles; Ph.D., 1978, University of Southern California

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Lili Tabrizi (1987) **Professor of Electrical and Computer Engineering**
B.S., 1978, Sharif University of Technology, Iran; M.S., 1981, Ph.D., 1984, Michigan State University

Lillian Taiz (1992) **Professor of History**
B.A., 1981, M.A., 1983, San Francisco State University; Ph.D., 1993, University of California, Davis

Valerie Talavera-Bustillos (2003) **Associate Professor of Chicano Studies**
B.A., 1992, University of California, Irvine; Ph.D., 1998, University of California, Los Angeles

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B.A., 1998, Rollins College; Ph.D., 2008, University of California, Santa Barbara

Chick F. Tam (1982) **Professor of Nutritional Science**
B.S., 1967, Chinese University of Hong Kong; M.S., 1971, Dr.P.H., 1974, University of California, Los Angeles

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B.Ed., 1972, National Taiwan Normal University; M.A., 1979, East Tennessee State University; Ph.D., 1981, Ohio State University

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B.A., 1980, Loyola-Marymount University; M.A., 1984, Ph.D., 1988, University of California, Los Angeles

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B.A., 1987, University of California, Santa Cruz; M.A., 1994, California State University, Los Angeles, Ph.D., 2000, University of California, Los Angeles

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BA, 2003, University of California, Los Angeles, MSW, 2005, University of California, Los Angeles, Ph.D. 2008, University of Nebraska-Omaha.

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Licence en droit, 1964, Saigon University, Vietnam; B.Ec., 1969, University of Western Australia; M.A., 1975, Ph.D., 1977, Syracuse University

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B.S., 1986, California State University, Fresno; M.S., 1989, Ph.D., 1993, University of California, Los Angeles; Registered Professional Civil Engineer, California

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B.A., 1974, State University of New York at Buffalo; M.A., 1982, California State University, Los Angeles; Ph.D., 1993, University of Southern California

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B.F.A., 1969, Washington University; M.F.A., 1981, University of California, Los Angeles

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B.A., 1986, University of Philippines, Quezon; M.A., 1990, Montclair State University; Ed.D., 1996, Teachers College, Columbia University

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B.A., 1993, Earlham College, Richmond, VA., M.L.I.S., 2003, University of California, Los Angeles

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B.A., 1989, UCLA; M.A., 1996, UCLA, Ph.D., 2001, University of Oregon

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B.S., 1982, California State University, Los Angeles; Ph.D., 1988, University of California, Berkeley

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B.A., 1994, Pontificia Universidad Católica de Chile; M.A., 1999, University of California, San Diego; Ph.D., 2002, University of California, San Diego

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B.A., 1972, University of Michigan; M.A., 1982, Ph.D., 1988, University of California, Los Angeles

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B.A., 1995, University of California, San Diego; M.A. 2000, New York University

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W

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B.A., 1982, Northeast Normal University, China; M.A., 1988, Ph.D., 1993, Southern Illinois University; M.S., 1998, Nova Southeastern University, Florida

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B.A., 1985 University of La Verne, M.S.N., California State University, Los Angeles, Ph.D., 2005, Pepperdine University

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B.A., 1993, John Jay College of Criminal Justice; M.A., 1995, John Jay College of Criminal Justice; MSW, 2000, Hunter College School of Social Work; M.Phil, 2006, City University of New York; Ph.D., 2009, City University of New York.

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B.S., 1985, Cornell University; M.S., 1989, Ph.D., 1993, University of Illinois, Urbana

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B.S., 1993, Drake University; M.S., 1997, Drake University; D.N.S., 2003, Louisiana State University Health Science Center

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B.F.A., 1993, University of Auckland, New Zealand; M.F.A., 1996, University of Southern California

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B.A., 1968, M.A. 1970, Ph.D. 1982, Michigan State University

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1977, Sophia University, Japan, M.A., 1981, University of California, Santa Barbara, M.A., University of California, Los Angeles, 1990, Ph.D., 2000, University of California, Irvine

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Appendix F - Privacy Rights of Students in Education Records

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The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code, Section 67100 et seq., set out requirements designed to protect students privacy in their records maintained by the campus, the statute and regulations govern access to records maintained by the campus, and the release of such records. The law provides that the campus must give students access to official records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student.

Cal State L.A. has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained at the Office of the Vice President for Student Affairs, Student Affairs 108. Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records maintained and the information they contain; (2) the official responsible for maintaining each type of record; (3) the location of access lists indicating persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) student access rights to their records; (6) the procedures for challenging the content of student records; (7) the cost to be charged for reproducing copies of records; and (8) the right of the student to file a complaint with the Department of Education. The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: The Family Policy Compliance Office, U.S. Department of Education, Washington, D.C. 20202-4605.

Cal State L.A. is authorized under the act to release "directory information" about students. "Directory information" includes the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Such written objections should be directed to the University Registrar.

Cal State L.A. is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus' academic, administrative, or service functions and have reason for using student records associated with their campus or other related academic responsibilities. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring). A campus official is any person employed by the University in an administrative, supervisory, academic, research, or support position; a student or a University graduate serving on an official University committee or assisting another campus official in performing his or her tasks; or a person employed by or under contract to, or serving as the agent of, the University to perform a specific task.

Addendum to the Privacy Rights of Students in Education Records

Cal State L.A. is authorized under the act to release "directory information" about students. "Directory information" includes the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. For bargaining unit student employees, directory information also includes: the name of the department employing the student, the student employee's telephone listing within the department, the student employee's e-mail address within the department, and the student employee's job classification. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information that the student requests not be released. Such written objections should be directed to the University Registrar.

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