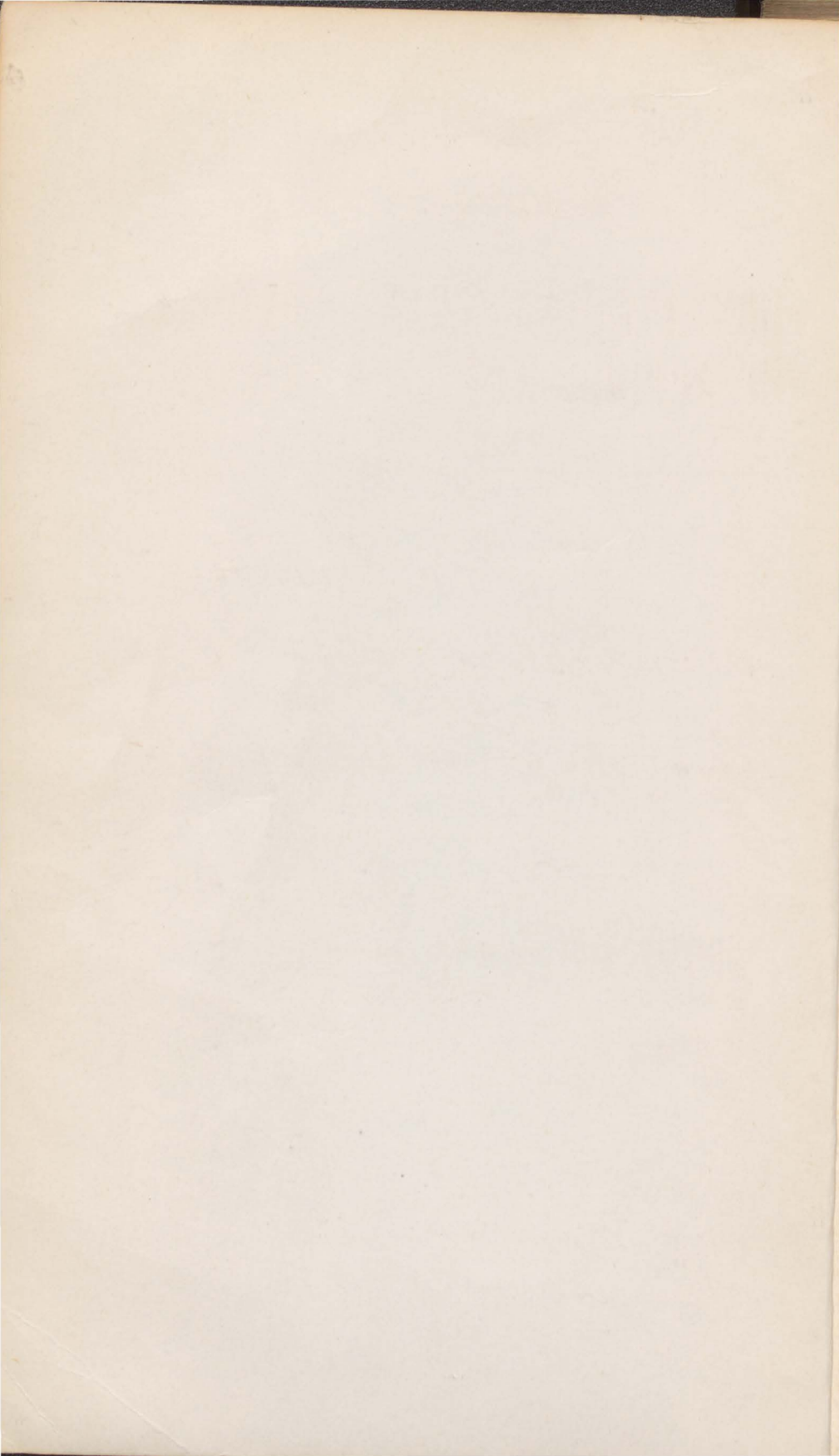


Mr. Polan



**LOS ANGELES STATE COLLEGE
OF APPLIED ARTS AND SCIENCES**

BULLETIN 1955-1956



BULLETIN
of the
**LOS ANGELES STATE COLLEGE
OF APPLIED ARTS AND SCIENCES**

VOLUME IX

June, 1955

NUMBER 1

CIRCULAR OF INFORMATION
AND
ANNOUNCEMENT OF COURSES

FALL AND SPRING SEMESTERS

1955-56

855 North Vermont Avenue, Los Angeles 29, California

BULLETIN
of the
LOS ANGELES STATE COLLEGE
OF APPLIED ARTS AND SCIENCES

Volume 1

June, 1953

Number 12

CIRCULAR OF INFORMATION
AND
ANNOUNCEMENT OF COURSES

FALL AND SPRING SEMESTERS

1952-53

855 North Vermont Avenue, Los Angeles 19, California

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COLLEGE CALENDAR

FALL SEMESTER 1955-56

- August 19, 1955..... Deadline for applications for all entering students not in attendance as matriculated students during spring, 1955. In order to assure admission, applicants should file at the earliest possible date with the Admissions Office. The Admissions Office cannot guarantee the processing of applications and transcripts filed after this date.
- September 12-16..... Orientation and registration week. Students should consult the class schedule for details, dates and deadlines regarding registration.
- September 19..... Instruction begins.
- September 30..... Deadline for applications for graduation in January, 1956.
- October 28..... Last day to withdraw from class without risk of "F" grade.
- November 1..... Deadline for filing for directed teaching for spring, 1956.
- November 11..... Veterans' Day (legal holiday).
- November 17..... Optional examinations to meet American government and history graduation requirements.
- November 24-27, incl..... Thanksgiving holidays.
- December 2..... Deadline for applications for graduation in June, 1956.
- December 19, 1955—
January 2, 1956, incl..... Christmas holidays.
- January 3, 1956..... Classes resume.
- January 6..... Last day to withdraw from classes.
- January 19-25..... Semester examinations.
- January 27..... Fall semester ends.

SPRING SEMESTER 1956

- January 6, 1956..... Deadline for applications for all entering students not in attendance as matriculated students during fall, 1955. In order to assure admission, applicants should file at the earliest possible date with the Admissions Office. The Admissions Office cannot guarantee the processing of applications and transcripts filed after this date.
- January 30-February 3..... Orientation and registration week. Students should consult the class schedule for details, dates and deadlines regarding registration.

- February 6..... Instruction begins.
- February 13..... Legal holiday in recognition of Lincoln's Birthday.
- February 17..... Deadline for applications for graduation in June and summer, 1956.
- February 22..... Washington's Birthday (legal holiday).
- March 16..... Last day to withdraw from class without risk of "F" grade.
- March 23..... Optional examination to meet American government and history graduation requirements.
- March 26-31, incl..... Easter vacation.
- April 1..... Deadline for filing for directed teaching for fall, 1956.
- May 18..... Last day to withdraw from classes.
- May 30..... Memorial Day (legal holiday).
- May 31-June 6..... Semester examinations.
- June 8..... Spring semester ends.

NOTE: Because of crowded conditions on this campus, students are cautioned not to wait for the late registration period to register. Most classes may be filled by that time.

ADMINISTRATION

CALIFORNIA STATE DEPARTMENT OF EDUCATION

Roy E. Simpson Superintendent of Public Instruction and
State Director of Education

J. Burton Vasche Associate Superintendent of Public Instruction;
Chief, Division of State Colleges and Teacher Education

Joel A. Burkman Assistant Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

*Term expires
January 15th*

William L. Blair, President, Pasadena	1956
Byron H. Atkinson, Glendale	1956
Mrs. E. T. Hale, San Diego	1954
Joseph Loeb, Los Angeles	1955
Thomas J. Mellon, San Francisco	1954
James Mussati, Palo Alto	1958
Max Osslo, San Diego	1957
Wilber D. Simons, Redding	1956
Mrs. Margaret H. Strong, Palo Alto	1956
William G. Werner, Alameda	1959

Roy E. Simpson, Secretary and Executive Officer

LOS ANGELES STATE COLLEGE ADVISORY BOARD

The advisory board of the college consists of seven members, all of whom are residents of Los Angeles County and three of whom are members of the City Board of Education in Los Angeles. The members are:

William G. Paul	Mrs. Valley Knudsen
Leonard K. Firestone	E. McClelland Stuart, <i>Chairman</i>
Howard S. McDonald,	Edith K. Stafford
<i>President of College</i>	Harry H. Hillman

COLLEGE ADMINISTRATION AND STAFF

EXECUTIVE OFFICES

President	Howard S. McDonald ✓
Executive Secretary	Helen Speck
Executive Dean	Wendell C. Black
Secretary	Marie Gunter
Public Relations and Publicity	Irvin Borders

ADMISSION AND REGISTRATION

Admissions Officer	Robert J. Williams
Evaluators	Rae Cosgrove, Carol Foster, June Hillman Pat Jones, Lenore Laymon, Margaret Rush
Secretary	Dora Tucker
Registrar	John Salmund
Supervisor	Ed. Johnson
Credential Technician	Toni Siamis
Graduation Clerk	Samuella Craiker
Secretary	Bonnie Johnson
Office Assistants	Theresa Barry, Marie Chase, Mary Coro, Jean Hutchinson, Rosenda Long, Peggy Osborn

INSTRUCTION

Dean of Instruction	John A. Morton
Secretary	Catherine H. Watkins
Extended Day Program and Extension Supervisor	Alfred E. Ehrhardt ✓
Secretaries	Virginia Hronis, Edith Lindman
Division of Business and Economics, Chairman	Floyd R. Simpson
Secretary	Velma Tetzlaff
Accounting, Department Head	Donald L. Raun
Business Education and Secretarial, Adviser	Jessie C. Gustafson
Economics and Statistics, Department Head	Leonard G. Mathy
Finance and Law, Department Head	Frank J. Hill
Management, Marketing and Labor Relations, Department Head	Rodney F. Luther
Division of Education, Chairman	Delmar T. Oviatt
Secretaries	Virginia Small, Betty Tamaki, Deleen Sommer, Emiko Matsuhara
Elementary Education, Department Head	Roderick G. Langston
Elementary Student Teaching, Coordinator	Lloyd S. Van Winkle
Secondary Education, Department Head	Rudolph F. Sando
Secondary Student Teaching, Coordinator	Wayne F. McIntire
School Administration and Supervision, Coordinator	Roy B. Tozier
Special Education, Coordinator	Francis E. Lord
Division of Fine Arts, Chairman	William E. Daywalt
Secretary	Gloria Boh
Art, Department Head	D. Keith Manion
Home Economics, Department Head	Thelma Graves
Music, Department Head	Keith D. Snyder
Division of Health and Safety, Physical Education, Recreation and	
Athletics, Chairman	Ferron C. Losee
Secretary	Gloria Ryan
Athletics, Coordinator	Ferron C. Losee
Health and Safety Education, Department Head	Saxon C. Elliot

Physical Education, Men, Department Head	Albert R. Wise
Physical Education, Women, Department Head	Beverly Yerrington
Recreation Education, Department Head	George W. Willott
Division of Language Arts, Chairman	Clarence K. Sandelin
Secretary	Donna Bachenheimer
English, Department Head	
Foreign Languages, Adviser	Florence M. Bonhard
Journalism, Adviser	Paul T. Scott
Speech and Drama, Department Head	James J. Stansell
Division of Natural Sciences, Chairman	Dean A. Anderson
Secretary	Edith Pritchard
Mathematics, Adviser	Samuel E. Uner
Physical Science, Department Head	Stewart A. Johnston
Division of Social Sciences, Chairman	Raymond A. Rydell
Secretary	Betty Uemura
Anthropology, Adviser	Dorothy L. Luhrs
Geography, Department Head	Edward T. Price, Jr.
Government, Department Head	Elliott W. Guild
History, Department Head	Robert C. Catren
Philosophy, Adviser	James B. Wilson
Psychology, Department Head	Howard E. Wilkening
Social Studies, Adviser	Joseph B. Ford
Sociology, Department Head	Karl M. Wallace
Division of Technical Sciences, Chairman	Willis M. Kenealy
Secretary	Ruth Freedman
Audiology, Department Head	A. Helen Kennedy
Engineering, Department Head	Albert H. Repscha
Industrial Arts, Department Head	Claude E. Nihart
Nursing, Department Head	Rebecca C. Bosworth
Police Science, Department Head	William R. Barker

EDUCATIONAL SERVICES

Dean of Educational Services	Albert D. Graves
Secretaries	Ethel Robertson, Donna Nelson, Katherine Wiley
Curriculum Evaluator	William G. Leary
Coordinator Graduate Studies	Edward T. Price, Jr.
Audio-Visual Coordinator	Adam E. Diehl
Assistant Coordinators	Emma Van Valkenburg, Jesse Ott
Laboratory Assistant	Merwin Soyster
Secretary	Hiroko Kawanami
College Librarian	Beverly Caverhill
Assistant Librarian	William R. Eshelman
Secretary	Alberta Ehrenwerth
Reference Librarian	Marjorie B. Gardner
Assistant Reference Librarian	Joseph A. Schmidt
Circulation Librarian	Ruth M. Protzman
Circulation Assistant	Shirley Ulrich
Periodicals Librarian	Robert A. Canny
Periodicals Assistant	Rene Breen
Education Librarian	Mary Alice Peairs
Education Assistant	Marlene Preble
Order Librarian	Gladys J. Rohde
Assistant Order Librarian	H. Randall Butler
Order Assistants	Marjorie C. Steakley, Clemence S. Bowman, Edith F. Neville
Catalog Librarian	Dorothy G. Armstrong
Assistant Catalog Librarians	Keith P. Anderson, —
Catalog Assistants	Oriole P. Muzzy, Ellen S. Bender

APPLIED ARTS AND SCIENCES

Dean of Applied Arts and Sciences.....	Willis M. Kenealy
Secretary	Ruth Freedman
Coordinator of Business and Industrial Education.....	Homer D. Fetty
Secretary	Mary Mitchell
Assistant Coordinator of Business and Industrial Education.....	D. Eugene Kinnett

STUDENT PERSONNEL

Dean of Student Personnel.....	Morton J. Renshaw
Secretary	Mildred Greenwood
Associate Dean of Student Activities.....	Floyd R. Eastwood
Secretaries.....	Eileen Adler, Dorothy Hough
Assistant Activities Officer.....	Cynthia Diane Johnson
Associate Dean of Counseling and Guidance.....	Eugenia C. Loder
Secretary	Ruth Eley
Placement Officer	Don D. Prosser
Secretary	Lois LaBaun
Student Placement	Alice Larson
Interviewer	Johanna Taafe
Teacher Placement.....	Carita K. Conner
Secretary	Phyllis Kennedy
Health Officer.....	Hyman Simmonds
Nurse	Betty Wright
Secretary	Jacqueline Moore
Test Officer.....	Alice Thompson

BUSINESS MANAGEMENT

Business Manager.....	Warner K. Masters
Accounting Officer.....	Jack C. Heppe
Secretary	Kathryn Sergienko
Accounting.....	William Graham, Elsie Hawkins, Marjorie Bravin
Personnel and Payroll.....	Arline Snyder, Marlene Chuchian
Purchasing.....	Dorothy Larson
Cashier-Receptionist.....	Patricia Cottrell
Accounts Receivable and Veterans Refunds.....	Ruth Kramer
Accounts Payable and Property.....	Gladys Kennedy
Receiving and Stores.....	J. Rolland Chase
Duplication Services.....	Nina Mjatsch, Luree Thrane
Graduate Manager.....	William Lerz
Staff.....	Cathryn Wagoner, Beverly Tessel

LIST OF FACULTY—1955-56

- Howard S. McDonald (1949)..... President
 B.S., 1921, Utah State Agricultural College; M.A., 1925, Ed.D., 1949, University of California at Berkeley.
- Leonard L. Adams (1951)..... Lecturer in Physical Education
 B.S., 1942, Drake University; graduate study, University of Southern California.
- Roger M. Altenberg (1954)..... Instructor in Drama
 A.B., 1945, University of Southern California; M.A., 1948, Western Reserve University, additional graduate study, Stanford University.
- Daniel A. Amneus (1950)..... Assistant Professor of English
 B.A., 1941, University of California; M.S., 1947, Ph.D., 1953, University of Southern California.
- Dean A. Anderson (1950)..... Professor of Microbiology
 B.S., 1929, Brigham Young University; M.S., 1930, Ph.D., 1932, Iowa State College; additional graduate study, Iowa State College, Stanford University.
- Keith P. Anderson (1954)..... Assistant Catalog Librarian
 B.A., 1950, Pomona; M.A., 1951, Claremont Graduate School; M.S.L.S., 1954, University of Southern California.
- Dorothy Gertrude Armstrong (1951)..... Catalog Librarian
 B.J., 1926, University of Missouri; B.A.L.S., 1941, University of Oklahoma.
- William R. Barker (1950)..... Head of Police Science Department
 A.B., 1922, Harvard University; LL.B., 1930, Ph.D., 1937, University of Southern California.
- Francis H. Baxter (1950)..... Associate Professor of Music
 B.M., 1935, University of Wichita; M.M., 1940, Northwestern University; additional graduate study, Washington State College, Rochester University (Eastman School of Music), University of Southern California.
- J. Ross Beckstead (1951)..... Lecturer in Music
 B.M., 1939, University of Wyoming; M.F.A., 1951, University of Utah; additional graduate study, Brigham Young University, University of Southern California.
- Eugene Benedetti (1950)..... Associate Professor of Education
 B.A., 1935, University of California at Los Angeles; M.S., 1942, Ed.D., 1950, University of Southern California.
- Raymond E. Bernberg (1949)..... Assistant Professor of Psychology
 B.A., 1948, M.A., 1949, Ph.D., 1950, University of California at Los Angeles.
- A. LeRoy Bishop (1950)..... Professor of Education
 B.S., 1935, Utah State Agricultural College; M.S., 1940, University of Southern California; Ed. D., 1946, Colorado State College of Education.
- Thompson Black, Jr. (1949)..... Associate Professor of Government
 B.S., 1933, United States Naval Academy; M.A., 1949, University of California at Los Angeles; Ph.D., 1954, University of California at Los Angeles.

- Wendell C. Black (1954)..... Executive Dean
 B.A., 1930, University of Redlands; M.A., 1935, University of Southern California; additional graduate study, University of Southern California.
- Walter Blackledge (1951) Assistant Professor of Business Administration.
 B.S., 1943, St. Ambrose College; M.A., 1946, J.D., 1947, Ph.D., 1951, University of Iowa; member of the Illinois and Iowa State Bar, and Federal Bar.
- Hugh S. Bonar, Jr. (1954)..... Assistant Professor of History
 B.A., 1940, M.A., 1943, Ph.D., 1950, University of Wisconsin; additional study and research: Germany, France, England, 1950-52.
- Florence M. Bonhard (1949) Associate Professor of Foreign Language
 B.A., 1921, Stanford University; M.A., 1927, Columbia University; Ph.D., 1946, University of Southern California; additional graduate study, University of Mexico, University of Madrid, University of Paris, University of Southern California.
- Irvin Borders (1951) Lecturer in Business Administration and Journalism
 B.J., 1925, University of Missouri; M.A., 1952, Los Angeles State College; additional graduate study, University of Southern California.
- Rebecca C. Bosworth (1949)..... Head of Nursing Department
 B.S., 1931, University of California at Los Angeles; R.N. (California), M.S., 1936, University of Southern California.
- William H. Bright (1950) Assistant Professor of Business Administration
 B.A., 1949, Los Angeles State College; M.B.A., 1950, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.
- Martha L. Brockman (1951)..... Assistant Professor of Education
 B.A., 1938, Eastern Washington College of Education; M.A., 1944, Ed.D., 1953, Teachers College, Columbia University.
- Gerald W. Brown (1954)..... Assistant Professor of Education
 B.S., 1939, University of Nebraska; M.A., 1951, University of California; Ed.D., 1954, Stanford University.
- Steve E. Brummer (1954)..... Assistant in Education
 A.B., 1954, Los Angeles State College; additional graduate study, Los Angeles State College.
- Harley Randall Butler (1954)..... Assistant Order Librarian
 A.B., 1950, M.A., 1952, B.L.S., 1954, University of California.
- William G. Byron (1954)..... Assistant Professor of Geography
 B.A., 1943, M.A., 1948, University of California; Ph.D., 1954, Syracuse University.
- John C. Bushman (1953)..... Assistant Professor of English
 B.A., 1936, M.A., 1937, Ph.D., 1943, University of Illinois.
- Frances Cake (1950)..... Professor of Physical Education
 B.A., 1930, University of Richmond; M.S., 1941, Wellesley College; Ph.D., 1949, University of Southern California.
- Robert A. Canny (1954)..... Periodicals Librarian
 B.A., 1937, Colorado State College of Education; B.S., in L.S., 1938, University of Denver.
- Robert C. Catren (1949)..... Associate Professor of History
 B.A., 1938, M.A., 1942, Ph.D., 1951, University of Southern California.

- Beverly S. Caverhill (1950)..... College Librarian
B.A., 1935, M.A., 1938, University of Oregon; Graduate Certificate in Librarianship, 1942, University of California; additional graduate study, Johns Hopkins University, University of Southern California.
- Virginia P. Chamberlain (1953)..... Assistant Professor of Home Economics
B.A., 1929, University of Utah; M.A., 1932, Columbia University; additional graduate study, Brigham Young University, Los Angeles State College.
- Milton C. Cheresh (1954)..... Assistant Professor of Education
B.A., 1948, M.A., 1949, Wayne University, additional graduate study, Claremont Graduate School.
- Russell L. Chrysler (1950)..... Associate Professor of Business Admin.
B.B.A., 1932, M.B.A., 1937, University of Minnesota; Ph.D., 1953, Northwestern University.
- Carita K. Conner (1952)..... Teacher Placement Secretary
B.A., 1931, University of Nebraska.
- Grant O. Cook (1948)..... Associate Professor of Music
B.A., 1937, University of Utah; M.A., 1941, Ed.D., 1944, Columbia University; additional graduate study, University of Southern California, University of California at Los Angeles.
- John Cornish (1954)..... Assistant Professor of Art
B.F.A., 1940, M.A., 1940, Wayne University; additional study, Cranbrook Academy of Art, Society of Arts and Crafts.
- Leslie Cromwell (1953)..... Assistant Professor of Engineering
B.Sc.Tech., A.M.C.T., 1943, University of Manchester, England; M.S., 1951, University of California at Los Angeles; additional graduate study, University of California at Los Angeles; Registered Professional Electrical Engineer, State of California.
- Maurice Dance (1950)..... Assistant Professor of Economics
B.A., 1947, University of Washington; M.S., 1949, Ph.D., 1953, University of Wisconsin.
- J. T. Daniel (1954)..... Instructor in Speech
B.A., 1942, Santa Barbara; M.A., 1946, Denver University; additional graduate study, Pennsylvania State University and University of Southern California.
- William E. Daywalt (1948)..... Professor of Art
B.E., 1940, M.A., 1944, Ed.D., 1949, University of California at Los Angeles; additional graduate study, University of California.
- Louis C. DeArmond (1950)..... Assistant Professor of History
B.A., 1940, M.A., 1947, Ph.D., 1950, University of California at Berkeley. Ford Fellow, 1954-1955.
- Cameron Scott Deeds (1951)..... Assistant Professor of Physical Education
B.S., 1949, Brigham Young University; M.S., 1951, University of Southern California; additional graduate study, University of Southern California.
- Solomon Diamond (1949)..... Professor of Psychology
B.S., 1927, M.A., 1928, New York University; Ph.D., 1936, Columbia University.

- Isabel W. Dible (1953).....Assistant Professor of Education
A.B., 1932, San Jose State College; M.A., 1953, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.
- Harold T. Diehl (1950).....Associate Professor of Sociology
B.A., 1933, M.A., 1935, University of Missouri; Ph.D., 1950, University of Southern California; additional graduate study, University of Chicago.
- Robert Douglass (1951).....Assistant Professor of Speech
B.A., M.A., 1946, University of Redlands; Ph.D., 1951, University of Southern California.
- Robert W. Durrenberger (1950).....Assistant Professor of Geography
B.S., 1940, Moorhead State Teachers College; M.S., 1949, University of Wisconsin; additional graduate study, University of California at Los Angeles.
- Floyd R. Eastwood (1948).....Associate Dean of Student Activities
B.P.E., 1922, Springfield College; M.A., 1924, Clark University; Ph.D., 1936, New York University.
- Alfred Ehrhardt (1950).....Associate Professor of English
B.A., 1930, College of the Holy Cross; M.S., 1948, Ed.D., 1950, University of Southern California.
- Saxon C. Elliot (1950).....Lecturer in Physical Education
B.S., 1934, M.S., 1949, University of Southern California.
- J. Henry Ennen (1954).....Instructor in Physical Education
B.A., 1953, University of California at Los Angeles; additional graduate study, Los Angeles State College, University of California at Los Angeles, University of California at Berkeley, Stanford University.
- William R. Eshelman (1951).....Assistant Librarian
B.A., 1943, Chapman College; M.A., 1950, University of California at Los Angeles; B.L.S., 1951, University of California.
- Homer D. Fetty (1951) Coordinator of Business and Industrial Education
B.A., 1935, University of California at Los Angeles; M.S., 1939, Ed.D., 1951, University of Southern California.
- Howard A. Fleming (1949).....Assistant Professor of History
B.A., 1947, Ph.D., 1952, University of California at Los Angeles.
- Louis F. Foley (1954).....Lecturer in Education
B.S., 1910, Ohio Wesleyan; additional graduate study, University of Southern California, University of California at Berkeley.
- Joseph B. Ford (1950).....Assistant Professor of Sociology
B.A., 1937, University of California at Los Angeles; M.A., 1941, University of Southern California; M.A., 1947, Harvard University; Ph.D., 1951, University of California at Berkeley.
- George N. Francis (1949) Associate Professor of Business Administration
B.A., 1941, B.S., 1942, M.S., M.Ed., 1953, University of Southern California; Certified Public Accountant, 1948, California.
- Louis G. Gardemal (1950) Associate Professor of Drama and Television
B.S.C., 1940, St. Edward's University; Ph.D., 1950, University of Iowa.

- Marjorie B. Gardner (1950).....Reference Librarian
B.A., 1941, Fresno State College; Graduate Certificate in Librarianship, 1942, University of California; additional graduate study, Los Angeles State College.
- William Gellermann (1949).....Professor of Education
B.A., 1922, M.A., 1924, University of Washington; Ph.D., 1938, Columbia University.
- Herbert Goldenberg (1955).....Assistant Professor of Psychology
B.S., 1949, College of the City of New York; M.A., 1952, Ph.D., 1953, University of California at Los Angeles.
- John C. Gowan (1953).....Assistant Professor of Education
A.B., 1933, Ed.M., 1935, Harvard University; Ed.D., 1952, University of California at Los Angeles.
- Albert D. Graves (1951).....Dean of Educational Services
A.B., 1926, A.M., 1932, Ed.D., 1947, Stanford University.
- Thelma Graves (1951).....Assistant Professor of Home Economics
A.B., 1925, University of California at Santa Barbara; M.A., 1953, Humboldt State College.
- Emmett A. Greenwalt (1949).....Associate Professor of History
B.A., 1937, M.A., 1940, Ph.D., 1949, University of California at Los Angeles.
- Ann L. Greer (1950).....Assistant Professor of English
B.A., 1927, Zion College; M.A., 1947, University of Southern California; additional graduate study, University of Southern California.
- Wesley O. Griesel (1952).....Associate Professor of Botany
A.B., 1934, M.A., 1937, Ph.D., 1952, University of California at Los Angeles.
- Celeste Griffith (1954).....Assistant Professor of Music
B.S. in Music, 1943, Kansas State Teachers College; M.Mus., 1950, Northwestern University.
- Edward O. Guerrant (1954).....Assistant Professor of History
A.B., 1933, Davidson College; M.A., 1939, Ph.D., 1942, University of Southern California.
- Elliott W. Guild (1949).....Professor of Government
B.A., 1925, University of Wisconsin; M.A., 1931, Ph.D., 1935, Stanford University; additional graduate study, University of California at Berkeley.
- Jessie C. Gustafson (1952).....Associate Professor of Business Administration
B.A., 1923, M.S., 1940, University of Southern California; Ed.D., 1953, University of California at Los Angeles.
- Lorentz I. Hansen (1949).....Assistant Professor of History
B.A., 1910, Central College; M.A., 1912, B.D., 1915, University of Chicago; Ph.D., 1934, Boston University.
- Sib. O. Hansen (1948).....Associate Professor of Business Administration
B.S., 1941, University of Oklahoma; M.B.A., 1953, University of Southern California; Certified Public Accountant, 1946, California.

- Rita M. Hanson (1949) Associate Professor of Education
B.S., 1936, M.A., 1938, University of Iowa; Ed.D., 1949, Stanford University; additional graduate study, New York University.
- John Haralson (1951) Assistant Professor of Psychology
B.A., 1940, University of Minnesota; Ph.D., 1951, Indiana University.
- Burton Henry (1952) Associate Professor of Education
B.A., 1934, Harvard College; M.Ed., 1945, Ph.D., 1947, University of Southern California; additional graduate study, Yale University.
- Jack C. Heppe (1949) Accounting Officer
B.S., 1948, University of Southern California; additional graduate study, University of Southern California.
- Frank J. Hill (1949) Associate Professor of Business Administration
B.S., 1919, Earlham College; M.B.A., 1929, University of Southern California; additional graduate study, New York University; Certified Public Accountant, 1941, California.
- Anthony Hillbruner (1954) Assistant Professor in Speech
B.S., 1949, M.A., 1950, Ph.D., 1953, Northwestern University.
- Virginia Hoffman (1952) Assistant Professor of Art
B.S., 1945, Miami University; M.A., 1949, Teachers College, Columbia University; additional graduate study, Cranbrook Academy of Art, Teachers College, Columbia University.
- Elizabeth B. Hone (1950) Assistant Professor of Education
B.A., 1931, Wellesley College; M.A., 1936, Columbia University; additional graduate study, Harvard University, Yosemite Field School, Whittier College, University of Southern California.
- Edythe Eckert Horner (1952) Associate Professor of Education
B.S., 1942, Minnesota University; M.A., 1946, Ed.D., 1949, University of California at Los Angeles.
- Bernard L. Hoyt (1950) Associate Professor of Business Administration
LL.B., 1926, University of Southern California; admitted to California State Bar in 1926.
- Mary Wehe Huber (1952) Associate Professor of Speech
B.S., 1939, M.A., 1940, Ph.D., 1945, University of Wisconsin.
- Roland D. Hutchinson (1950) Assistant Professor of Psychology
B.A., 1948, M.A., 1950, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.
- Earl D. Jacobs (1954) Assistant Professor of Physics
B.S., 1953, M.S., 1954, California Institute of Technology.
- Carter Godfrey Jefferis (1950) Assistant Professor of History
B.A., 1930, University of California at Los Angeles; Ph.D., 1943, University of California at Berkeley.
- Cynthia Diane Johnson (1954) Assistant Activities Officer
B.A., 1954, Los Angeles State College.

- Lois V. Johnson (1950).....Associate Professor of Education
B.E., 1938, Northern Illinois State Teachers College; M.A., 1939, Northwestern University; Ed.D., 1948, University of Illinois; additional graduate study, Columbia University.
- Stewart A. Johnston (1953).....Professor of Physical Sciences
B.Sc. (Hons.), 1932, Teaching Certificate, 1934, M.Sc., 1937, University of Manitoba; Ph.D., 1940, Stanford University.
- Felix J. Jumonville, Jr. (1948) Assistant Professor of Physical Education
B.S., 1942, Louisiana State University; M.S., 1948, Ed.D., 1952, University of Southern California.
- Charles Kaplan (1954).....Assistant Professor of English
A.B., 1940, University of Chicago; M.A., 1942, Ph.D., 1952, Northwestern University.
- William Kasza (1954).....Instructor of Art
B.A., 1950, University of California at Los Angeles; M.A., 1954, Los Angeles State College; additional study, University of Mexico, University of California at Los Angeles.
- Betty H. Kazan (1952).....Assistant Professor of Microbiology
B.S., 1941, University of Utah; M.S., 1945, Ph.D., 1948, University of Southern California.
- Willis M. Kenealy (1952).....Dean of Applied Arts and Sciences
B.A., 1934, M.S.Ed., 1936, University of Southern California; LL.D., 1951, California College of Commerce.
- A. Helen Kennedy (1949).....Professor of Education
B.A., 1932, University of California at Los Angeles; M.A., 1934, Claremont College; Ph.D., 1941, University of Chicago; additional graduate study, Claremont Graduate School, University of Southern California.
- Max Klingbeil (1955).....Assistant Professor of Education
B.A., 1939, University of Washington; M.A., 1947, University of Washington; Ph.D., 1949, University of Washington.
- John R. Kudrna (1950).....Assistant Professor of Education
B.S., 1940, Nebraska State Teachers College; M.A., 1943, Ed.D., 1954, Colorado State College of Education.
- A. C. Lambert (1950).....Professor of Education
B.S., 1922, M.S., 1926, Brigham Young University; Ph.D., 1935, Stanford University.
- Roderick G. Langston (1952).....Professor of Education
B.A., 1938, San Diego State College; Ed.D., 1948, Stanford University.
- Alvin R. Lappin (1954).....Assistant Professor of Industrial Arts
B.A., 1939, University of California, Santa Barbara; M.Ed., 1951, Wayne University; additional graduate study, University of Southern California, University of Michigan, Wayne University.
- William G. Leary (1953).....Associate Professor of English
A.B., 1936, M.A., 1938, University of California at Los Angeles; Ph.D., 1953, Stanford University.

- Vernon F. Leidig (1950).....Assistant Professor of Music
B.A., 1943, University of California at Santa Barbara; M.S., 1953, University of Southern California; additional graduate study, University of Southern California, University of California at Los Angeles.
- Robert T. Lewis.....Assistant Professor of Psychology
B.A., 1946, M.A., 1950, University of Southern California; Ph.D., 1952, University of Denver.
- Theodore W. Little (1950).....Associate Professor of Art
B.A., 1939, M.A., 1940, Colorado College; additional graduate study, University of Southern California, Art Center School, Los Angeles.
- Arthur S. Lockley (1953).....Assistant Professor of Zoology
B.A., 1941, Queen's University, Canada; M.S., 1942, University of Michigan; additional graduate study, Scripps Institute of Oceanography, University of California at Los Angeles.
- Eugenia C. Loder (1951).....Associate Dean of Counseling and Guidance
B.S., 1925, University of Washington; M.A., Ed.D., 1945, Stanford University.
- George C. Lorbeer (1950).....Assistant Professor of Education
B.A., 1943, San Francisco State College; M.A., 1948, Stanford University; Ed.M., 1950, Ed.D., 1953, University of Illinois; additional graduate study, University of Southern California.
- Francis E. Lord (1953).....Professor of Education
A.B., 1926, Michigan State Normal College; M.A., 1928, University of Chicago; Ph.D., 1936, University of Michigan.
- Ferron C. Losee (1949).....Professor of Physical Education
B.S., 1935, Brigham Young University; M.S., 1938, Ed.D., 1951, University of Southern California.
- Dorothy L. Luhrs (1952).....Assistant Professor of Anthropology
A.B., 1935, A.M., 1937, University of New Mexico; Ph.D., 1944, University of Southern California.
- Rodney F. Luther (1950).....Associate Professor of Business Admin.
B.B.A., 1946, M.B.A., 1947, Ph.D., 1949, University of Minnesota.
- Paul E. Lydolph (1952).....Assistant Professor of Geography
B.A., 1948, State University of Iowa; M.S., 1951, University of Wisconsin; additional graduate study, University of Wisconsin.
- Wayne F. McIntire (1950).....Professor of Education
B.A., 1936, M.A., 1938, Brigham Young University; Ph.D., 1947, University of California; additional graduate study, University of Wisconsin.
- Donald Keith Manion (1950).....Professor of Art
B.A.E., 1929, John Herron Art School; M.A., 1947, University of Oregon; additional graduate study, University of Iowa.
- Mitchell Marcus (1953).....Assistant Professor of English
B.A., 1940, M.A., 1941, State University of Iowa; Ph.D., 1950, Stanford University.
- Warner K. Masters (1949).....Business Manager
B.S., 1949, University of Southern California; additional graduate study, University of Southern California.

- Leonard G. Mathy (1950)..... Professor of Economics
B.A., 1941, M.A., 1943, Ph.D., 1946, University of Illinois.
- Logan T. Miles (1950)..... Assistant Professor of Education
B.A., 1942, M.A., 1949, University of California; additional graduate study, University of California.
- Marguerite Mochel (1949)..... Associate Professor of Physical Education
B.A., 1940, Hunter College; M.A., 1942, Columbia University; Ph.D., 1949, University of Southern California.
- Donald G. Mortensen (1949)..... Associate Professor of Education
B.A., 1937, Brigham Young University; Ed.D., 1950, University of Southern California; additional graduate study, University of California at Los Angeles and University of Southern California.
- John A. Morton (1948)..... Dean of Instruction
B.S., 1936, M.S., 1939, University of Oregon; Ed.D., 1945, Stanford University.
- Charles S. Mudd (1953)..... Assistant Professor of Speech
A.B., 1942, St. Louis University; M.A., 1948, Ph.D., 1953, Louisiana State University.
- Hugh E. Mullins (1950)..... Assistant Professor of Music
B.M.Ed., 1945, Milliken Conservatory of Music; Ph.D., 1951, University of Southern California; private study with Bohuslav Martinu, Aaron Copland, and Ernest Kanitz.
- Mary E. Murphy (1951)..... Assistant Professor of Business Administration
B.S.C., 1927, University of Iowa; M.S., 1928, Columbia University; Ph.D., 1938, London School of Economics, London, England; Certified Public Accountant, New York, 1931; Fulbright Professor, 1953-54.
- Richard O. Nahrendorf (1950)..... Professor of Sociology
Certificate in Social Work, 1932, School of Social Work, Leipzig, Germany; B.A., 1944, Certificate in Social Work, 1945, Ph.D., 1948, University of Southern California.
- Edward J. Neale (1949)..... Associate Professor of Education
B.A., 1940, M.A., 1944, University of Notre Dame; Ph.D., 1949, University of California; additional graduate study, Stanford University.
- Leslie W. Nelson (1950)..... Professor of Education
B.S., 1930, M.S., 1931, Utah State Agricultural College; Ph.D., 1944, Ohio State University.
- Claude E. Nihart (1953)..... Lecturer in Industrial Arts
B.A., 1927, University of California at Los Angeles; graduate study, University of Southern California; M.S. (honorary), 1953, San Jose State College.
- Midori Nishi (1951)..... Assistant Professor of Geography
B.A., 1945, Nebraska, Wesleyan University; M.A., 1946, Clark University; additional graduate study, University of Washington
- John C. Norby (1950)..... Associate Professor of Economics
B.A., 1936, Eastern Washington College of Education; B.S., 1939, University of Washington; M.A., 1948, Ph.D., 1953, University of Minnesota; additional graduate study, University of Oslo.
- Dorothy O'Brien (1951)..... Assistant Professor of Physical Education
B.S., 1927, University of Washington; M.Ed., 1941, Montana State University.

- Delmar T. Oviatt (1953) _____ Professor of Education
B.A., 1939, University of Alberta; Ed.D., 1949, Stanford University.
- Anne M. Palmer (1953) _____ Assistant Professor of Education
B.Ed., 1942, University of California; M.Ed., 1951, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.
- Mary Alice Peairs (1952) _____ Education Librarian
B.E., 1939, National College of Education; B.S.L.S., George Peabody College for Teachers; additional graduate study, Drake University and University of Southern California.
- Dorothy R. Peckham (1950) _____ Professor of Education
B.A., 1932, M.A., 1933, Ed.D., 1948, University of Texas.
- Esther Penchef (1948) _____ Associate Professor of Sociology
B.S., 1935, Bowling Green State University; M.A., 1940, University of Toledo; Ph.D., 1947, University of Southern California.
- Peter Victor Peterson, Jr. (1952) _____ Assistant Professor of Physical
Science and Conservation
A.B., 1947, San Jose State College; M.S., 1950, Stanford University; Ph.D., 1952, Cornell University.
- Eleonora Preston (1951) _____ Assistant Professor of Education
B.S., 1935, Framingham Teachers College; M.Ed., 1949, Boston University; additional graduate study, University of California at Los Angeles.
- Edward T. Price, Jr. (1951) _____ Associate Professor of Geography
B.S., 1937, California Institute of Technology; Ph.D., 1950, University of California at Berkeley.
- Gerald Prindiville (1949) _____ Professor of Education
B.A., 1932, San Jose State College; M.S., 1933, University of Idaho; Ed.D., 1950, University of Southern California; additional graduate study, Claremont College, University of New Mexico.
- Don D. Prosser (1952) _____ Placement Officer
B.A.S., Ph.B., 1927, University of Chicago; M.A., 1930, Ph.D., 1938, Ohio State University; additional graduate study, University of Southern California.
- Ruth M. Protzman (1953) _____ Circulation Librarian
B.A., 1942, Manchester College; B.S.L.S., 1946, M.A., 1952, University of Illinois.
- Donald L. Raun (1953) _____ Assistant Professor of Business Administration
A.B., 1947, M.B.A., 1949, Stanford University; additional graduate study, University of Chicago; C.P.A., 1953, Washington.
- John J. Reardon (1954) _____ Assistant Professor of Zoology
B.S., 1948; M.A., 1949, University of Michigan; additional graduate study, Clemson College, South Carolina, University of Oregon.
- Warren E. Reeves (1950) _____ Associate Professor of Physical Education
B.A., 1940, Hastings College; M.S., in Education, 1948, Ph.D., 1951, University of Southern California.
- Morton J. Renshaw (1950) _____ Dean of Student Personnel
B.A., 1938, M.A., 1942, Colorado State College of Education; Ph.D., 1947, Stanford University.

- Albert H. Repscha (1954)..... Professor of Engineering
B.S. in M.E., 1925, University of Maine; M.S. in M.E., 1930, Iowa State College; M.E., 1931, University of Maine; additional graduate study, University of Pennsylvania; Registered Professional Mechanical Engineer, State of Pennsylvania.
- Edna Robinson (1954)..... School Nurse
R.N., 1939, Mercy Hospital, Iowa City, Iowa; additional graduate study, University of Iowa.
- Fred G. Rhodes (1954)..... Assistant Professor of Education
B.A., 1937, M.A., 1948, University of California; Ed.D., 1951, Stanford; additional graduate study, University of Southern California.
- Gladys J. Rohde (1951)..... Order Librarian
B.A., 1940, University of Illinois; M.S.L.S., 1951, University of Southern California.
- Roland Case Ross (1950)..... Lecturer in Nature Study
B.A., 1931, University of California at Los Angeles; M.S., 1932, California Institute of Technology.
- Hudson Roysner (1954)..... Associate Professor of Art
B.S., 1934, Western Reserve University; M.F.A., 1938, University of Southern California.
- Raymond A. Rydell (1948)..... Professor of History
B.A., 1937, M.A., 1947, Ph.D., 1948, University of California at Los Angeles; additional graduate study under the Rockefeller Foundation.
- John Salmond (1951)..... Registrar
A.B., 1949, University of Southern California; additional graduate study, University of Southern California.
- Ruth Dawson Samson (1954)..... Assistant Professor of Education
A.B., 1921, Oberlin College; M.A., 1926, University of Akron; additional graduate study, Western Reserve University.
- Clarence K. Sandelin (1949)..... Associate Professor of English
B.A., 1939, M.A., 1942, University of Iowa; additional graduate study, University of Wisconsin.
- Ake Sandler (1949)..... Associate Professor of Government
B.A., 1944, M.A., 1946, University of Southern California; Ph.D., 1950, University of California at Los Angeles.
- Rudolph Sando (1952)..... Professor of Education
B.A., 1930, Luther College; M.E., 1939, University of Montana; Ed.D., 1952, University of California at Berkeley.
- Dora Scheffsky (1953)..... Assistant Professor of Education
B.S., 1927, Marysville State Teachers College; M.A., 1936, University of Missouri; additional graduate study, University of Texas, Oregon College of Education, University of California at Los Angeles.
- Joseph A. Schmidt (1954)..... Assistant Reference Librarian
B.A., 1950, M.A., 1951, State College of Washington; M.S.L.S., 1954, University of Southern California; additional graduate study, University of California at Los Angeles.

- Delwyn G. Schubert (1950).....Assistant Professor of Education
B.S., 1942, Oshkosh State Teachers College; M.S., 1947, University of Wisconsin;
Ph.D., 1949, Northwestern University; additional graduate study, University of
California at Los Angeles.
- John C. Schwartz, Jr. (1950).....Professor of Education
B.A., 1933, M.A., 1946, Ed.D., 1950, University of California at Los Angeles.
- John J. Schwarz (1954).....Assistant Professor of Psychology
A.B., 1947, Princeton University; M.A., Ph.D., 1950, Stanford.
- Paul T. Scott (1950).....Associate Professor of Journalism
B.A., 1930, Indiana University; M.A., 1938, University of Iowa; additional grad-
uate study, University of Michigan.
- Gerald Q. Shepherd (1950).....Associate Professor of Education
B.A., 1926, Simpson College; M.S., 1933, Iowa State College; Ed.D., 1953, Uni-
versity of Southern California.
- Frederick B. Shroyer (1950).....Assistant Professor of English
B.A., 1948, M.A., 1949, University of Southern California; Ph.D., 1954, University
of Southern California.
- Malcolm O. Sillars (1954).....Assistant Professor of Speech
B.A., 1945, M.A., 1949, University of Redlands; Ph.D., 1955, University of Iowa.
- Hyman Simmonds, M.D. (1950).....College Physician
M.D., 1926, St. Bartholomew's Hospital, London; additional graduate study,
School of Tropical Medicine, University of London.
- Floyd R. Simpson (1949).....Professor of Economics
B.A., 1933, M.A., 1938, Ph.D., 1943, University of Minnesota; additional study,
Northwestern University.
- Carol J. Smallenburg (1950).....Assistant Professor of Education
B.A., 1935, Ed.D., 1948, Stanford University; additional graduate study, Mills
College, University of Chicago, Columbia University, University of Hawaii,
University of California at Los Angeles.
- James S. Smith (1954).....Assistant Professor of English
B.A., M.A., 1936, University of California; Ph.D., 1952, University of California.
- Frank E. Snyder (1954).....Assistant in Education
B.A., 1953, Los Angeles State College.
- Keith D. Snyder (1953).....Professor of Music
B.M.Ed., 1931, Nebraska Wesleyan University; M.Mus., 1937, Syracuse Uni-
versity; Ed.D., 1953, Teachers College, Columbia University; additional graduate
study, Harvard University.
- James J. Stansell (1951).....Associate Professor of Speech
B.A., 1937, M.A., 1938, University of Oklahoma; Ph.D., 1951, Louisiana State
University.
- Cecil C. Stewart (1949).....Associate Professor of Education
B.A., 1922, University of Redlands; M.A., 1928, University of Southern California;
Ed.D., 1942, Stanford University; additional graduate study, University of
Chicago.

- Don Sudlow (1952)**.....Assistant Professor of Art
A.B., 1947, M.S., 1951, University of Southern California; additional graduate study, New York University, University of Florida, University of Southern California.
- Alice Thompson (1951)**.....Assistant Professor of Psychology
A.B., 1932, Northwestern Nazarene College; M.A., 1948, University of California at Los Angeles; additional graduate study, Sorbonne, University of Paris.
- Maurine Timmerman (1950)**.....Associate Professor of Music
B.S., 1934, University of Minnesota; M.S., 1941, University of Idaho; additional graduate study, University of Southern California.
- Fred M. Tonge (1948)**.....Professor of Education
B.A., 1928, San Jose State College; M.A., 1929, Ed.D., 1945, Stanford University.
- Roy B. Tozier (1952)**.....Professor of Education
B.A., 1919, Park College; M.A., 1926, University of Illinois; Ph.D., 1932, State University of Iowa; additional graduate study, University of Chicago, University of Colorado.
- Thomas Tramel (1950)**.....Associate Professor of Art
B.A., 1942, Colorado State College of Education; M.S., 1951, University of Southern California; additional study, Art Center School, California School of Art.
- Evelyn Troup**.....Associate Professor of Psychology
B.A., 1928, M.A., 1930, University of Buffalo; Ph.D., 1935, Columbia University; additional graduate study, Western Reserve University.
- Samuel E. Urner (1950)**.....Professor of Mathematics
Ph.B., 1906, Baker University; Ph.D., 1911, Harvard University.
- Lloyd S. Van Winkle (1951)**.....Associate Professor of Education
B.Ed., 1933, Eastern Illinois State College; A.M., 1941, University of Illinois; Ed.D., 1949, Colorado State College of Education.
- Henry Van Slooten (1954)**.....Assistant Professor of English
A.B., 1940, M.A., 1948, University of Southern California; additional graduate study, University of Southern California.
- C. William Voris (1952)** Assistant Professor of Business Administration
B.S., 1947, M.B.A., 1948, University of Southern California; Ph.D., 1951, Ohio State University.
- Marian E. Wagstaff (1952)**.....Lecturer in Education
B.A., 1933, San Francisco State College; M.A., 1944, Stanford University; additional graduate study, Stanford University.
- Karl M. Wallace (1948)**.....Associate Professor of Sociology
B.S., 1942, M.S., 1945, Brigham Young University; Ph.D., 1947, University of Southern California.
- Charles K. A. Wang (1954)**.....Assistant Professor of Psychology
B.A., 1924, Furman University; M.A., 1926, Ph.D., 1931, University of Chicago.
- Edwin Wandt (1954)**.....Assistant Professor of Education
A.B., 1946, M.Ed., 1948, Ed.D., 1951, University of California at Los Angeles.

- Bernard E. Warner (1952)**..... Assistant Professor of Physical Education
B.S., 1936, Bowling Green State University; M.A., 1942, Ohio State University;
additional graduate study, University of Southern California.
- Tully E. Warren (1950)**..... Assistant Professor of Government
B.A., 1938, M.A., 1939, Ph.D., 1950, Stanford University.
- James P. Welsh (1953)**..... Assistant Professor of Zoology
B.A., 1947, Ph.D., 1952, Stanford University; additional graduate study, Stanford
University, University of Hawaii.
- Howard E. Wilkening (1948)**..... Professor of Psychology
B.S., 1933, New York University; M.A., 1939, University of Colorado; Ph.D.,
1941, New York University; additional graduate study, Purdue University, Uni-
versity of Colorado.
- Robert J. Williams (1950)**..... Admissions Officer
B.A., 1947, San Diego State College; graduate study, San Diego State College,
University of Southern California.
- Wirt A. Williams, Jr. (1953)**
Assistant Professor of Journalism and English
B.S., 1940, Delta State College; M.A., 1941, Louisiana State University; Ph.D.,
1953, State University of Iowa.
- James C. Williamson (1950)**..... Assistant Professor of Education
Ed.B., 1926, University of California at Los Angeles; M.S., 1936, University of
Pennsylvania; additional graduate study, University of Pennsylvania, University
of Southern California.
- George W. Willott (1950)**..... Associate Professor of Physical Education
B.S., 1938, M.S., 1939, University of Idaho; additional graduate study, Stanford
University.
- Donald P. Wilson (1948)**..... Professor of Psychology
B.A., 1922, Asbury College; M.A., 1929, University of Florida; Ph.D., 1941,
University of Southern California.
- James B. Wilson (1948)**..... Professor of Philosophy
B.A., 1936, Maryville College; B.D., 1939, Garrett Biblical Institute; M.A., 1942,
Ph.D., 1944, University of Southern California.
- Mabel M. Wilson (1950)**..... Assistant Professor of Education
B.A., 1919, Columbia College, Chicago; B.S., 1936, M.S., 1951, University of
Southern California; additional graduate study, University of Southern California.
- Clifton C. Winn (1950)**..... Professor of Education
B.A., 1927, Pomona College; M.A., 1929, Ph.D., 1931, Harvard University.
- Frances Wirth (1954)**..... Assistant Professor of Art
B.S., 1944, Central Missouri State College; M.A., 1953, University of California
at Los Angeles; additional graduate study, University of California at Los
Angeles; advanced study, Choinard Art Institute, Jepson Art School.
- Albert R. Wise (1950)**..... Associate Professor of Physical Education
B.S., 1947, M.A., 1948, Ohio State University; Ed.D., 1952, University of Southern
California.

Beverly Yerrington (1953).....Assistant Professor of Physical Education
B.S., 1939, M.S., 1941, University of Utah; additional graduate study, University of Texas, University of Southern California, University of Utah, University of Wisconsin.

Melvin L. Zack (1954).....Assistant Professor of Music
B.M., 1943, B.M.E., 1948, M.M.E., 1949, Ph.D., 1953, University of Kansas; additional study at Juilliard Institute of Musical Art.

EMERITUS

Chester R. Milham (1948-1954).....Vice President

PART-TIME FACULTY

Acke, Anna, B.A.	Education
Allen, Jay A., A.B.	Police Science
Allen, Jesse B., Ph.D.	Management
Andersen, Robert T., M.S., C.P.A.	Accounting
Appleby, Max M., Ph.D.	Education
Armstrong, Robert P., B.A.	Management
Bahr, Ferdinand A., B.A.	Recreation Education
Barber, Helen Hiles, A.B.	Education
Barnum, Bernice Webb, M.S.	Education
Becker, Harold S., B. of A.E.	Technical Sciences
Bennett, Donald J.	Technical Sciences
Berg, George O., M.D.	Physical Education
Biden, Margaret Gardner, M.S.	Education
Bidna, David, A.B.	Education
Bobbitt, Blanche, Ph.D.	Health and Safety
Braverman, Sonia P., M.A.	Education
Breinholt, Verna A., M.A.	Language Arts
Brown, Marjorie, M.A.	Education
Bullock, Hazel D., A.B.	Music
Burger, Oak Kurt, M.A.	Police Science
Ryberg, Esther, R.N., B.S.	Nursing
Cady, Osman H., Ph.D.	Chemistry
Calone, Rosalie, M.A.	Education
Cane, Susan, M.A.	Education
Clark, Richard L., Ph.D.	Social Sciences
Cole, Frances, B.E.	Music
Collier, Robert, B.A.	Economics
Collins, Jack G., B.S.	Technical Sciences
Cordray, William Woodrow, M.A.	Social Sciences
Davis, Edward M.	Police Science
Davis, John, B.A.	Foreign Trade
Deichmon, John, B.A.	Music
DeLong, Doris, M.A.	Education
Diehl, Adam E., Sc.D.	Audio-Visual
Dixon, Evander S.	Education
Doyle, William G., A.B.	Social Sciences
Duncan, Merrill, B.S.	Police Science
Ferguson, Jenniellen W., B.A.	Government
Ferguson, Philip M., Ed.D.	Education
Forer, Lucile K., Ph.D.	Social Sciences
Franke, Lois E., M.A.	Art
Fraser, Dorothy Dutcher, M.A.	Education
Fredrickson, John, M.S.	Engineering

Frym, Marcel, Ph.D.	Social Sciences
Fulton, James L., B.S.	Police Science
Gannon, Joseph F., Ed.D.	Education
Garner, Jefferson, Ed.D.	Education
Geiser, Peter, M.S.W.	Sociology
Gesner, Elizabeth T., M.A.	Education
Glavas, Basil J., B.S.	Technical Sciences
Glover, Leland E., Ph.D.	Education
Goff, Ralph L., M.S.W.	Social Sciences
Gooding, Freda E., R.N., B.S.	Nursing
Gourley, G. B., LL.B.	Technical Sciences
Green, M. Louise, M.A.	Education
Greenwood, David Charles, M.A. (Oxon.)	Social Sciences
Hathcock, Edward, A.B.	Real Estate
Henderson, Norman B., M.A.	Social Sciences
Highby, Paul R., Ph.D.	Biological Sciences
Hodge, Harold S., M.A.	Education
Hodgson, Frank M., Ed.D.	Education
Houghton, R. A.	Police Science
Iannone, Nathan F., B.S.	Police Science
Ireland, Frank L., B.S.	Police Science
Jensen, Thomas A., M.A.	Social Sciences
Kinnett, Eugene D., M.B.A.	Work Study
Kitchen, James D., M.A.	Social Sciences
Koenig, Walter R., B.S.	Police Science
Kogon, Bernard, M.S.	Sociology
Konold, Ewing A., Ed.D.	Sociology
Lamb, Robert B., M.A.	Social Sciences
Lambert, Robert E., M.A.	Education
Lamona, Eunice, R.B., A.B.	Nursing
Larr, Alfred L., M.A.	Education
Lemons, Lois D., B.A.	Music
Lewis, William E., M.S.	Business Education
Lodge, Helen, Ed.D.	Education
Lucas, Winafred B., M.A.	Psychology
Lyon, Robert J., M.A.	Zoology
Martinetti, Mary, B.S.	Technical Sciences
Mazzuchelli, Vincent, M.A.	Social Sciences
McCune, Ellis E., Ph.D.	Social Sciences
McDonald, Blanche, B.A.	Education
Merrill, Foster C., Ed.D.	Education
Meyer, Eunice J., A.B.	Education
Michael, William B., Ph.D.	Social Sciences
Miller, Melba M., Ed.D.	Education
Mullin, Warren, LL.B.	Insurance
Murdock, Roger E., B.S.	Technical Sciences
Myers, M. Scott, Ph.D.	Psychology
Nickson, Jeanne C., B.A.	Education
Norrbom, A. E.	Transportation
Patterson, Ruth Warner, M.S.	Education
Potasse, Mabel, M.A.	Home Economics
Prosser, Don D., Ed.D.	Psychology
Peterson, Ralph J., M.S.	Music
Quilliam, Vernon, M.A.	Management
Quinn, Ruth W., B.E.	Education
Reath, Richard F., Ph.D.	Social Sciences
Reed, Harold J., Ed.D.	Education
Reilly, Mary Louise, B.S.	Music

Robinson, Jane J., M.A.	Language Arts
Rothrock, J. W., M.D.	Public Health
Rubin, Edward, LL.B.	Law
Ruhl, Robert G., M.A.	Education
Russell, Eudora, B.S.	Language Arts
Sarracino, Louie, M.A.	Language Arts
Schroeder, Melvin T., Ph.D.	Physical Education
Schubert, Inez, A.B.	Music
Schutz, John A., Ph.D.	Social Sciences
Senn, Charles, M.S.	Public Health
Shapiro, Stewart B., Ph.D.	Social Sciences
Shaw, Donald S., B.A.	Adviser for Extended Day
Shehorn, Clayton, B.A.	Education
Shellgrain, Evelyn, M.A. (one year full time)	Education
Shepherd, Jerold, M.S.	Music
Simon, Richard	Technical Sciences
Smith, Elsa May, Ed.B.	Education
Smith, Robert, B.A.	Management
Smith, Thomas W., B.A.	Education
Sorenson, A. Garth, Ph.D.	Education
Soucie, Katherine M., M.A.	Education
Stein, Seymour P., M.A.	Education
Storch, Harold, M.S.	Technical Sciences
Takeshita, Lydia, M.A.	Art
Thomes, Mary Margaret, M.S.	Technical Sciences
Tiegs, Ernest W., Ph.D.	Education
Tipton, Gene D., Ph.D.	Economics
Tuohino, Alvin, M.S., C.P.A.	Accounting
Van Valkenburg, Emma, B.S.	Audio-Visual
Van der Bie, C. L., M.A.	Education
Walton, Frank E., Jr.	Technical Sciences
Warren, Elizabeth S., M.A.	Education
Wasell, Irene T., B.S.	Education
Weber, Clare M., M.A.	Education
Webster, Lloyd E., M.A.	Physical Education
Webster, Tamara, M.Ed.	Art
Williamson, Robert C., Ph.D.	Social Sciences
Whitaker, Helen Hart, M.S.	Music
Wilson, Freeda Pierce, M.A.	Education
Woodhouse, Edwin D., Ph.D.	Botany
Wisda, James W., B.S.	Technical Sciences
Wroblicky, Emil P., M.A.	Physical Education
Young, James, Ph.D.	Language Arts
Younger, Ann Carol, M.A.	Audiology

LOS ANGELES STATE COLLEGE ADVISORY COMMITTEES

ACCOUNTING ADVISORY COMMITTEE

- Mr. J. V. Class, Former Controller, Studebaker Corporation, Pacific Division.
Mr. Carl O. Craig, Former Chairman, Educational Committee of the Controllers Institute of America; Accountant and Tax Counselor.
Mr. Raymond O. Hill, Treasurer, Cannon Electric Company.
Mr. Harry N. Kamph, President, Business Systems, Inc.; Director of Education, National Association of Cost Accountants.
Mr. Franklin N. McClelland, Partner, Haskins & Sells, C. P. A.; Chairman, Educational Committee of Southern California Chapter of Certified Public Accountants.

AUDIOLOGY ADVISORY COMMITTEE

- Dr. Aram Glorig, Director of Research in Hearing, Department of the Army.
Dr. Victor Goodhill, Senior Otolaryngologist, Children's Hospital, Los Angeles.
Dr. Howard P. House, Chairman, Department of Otolaryngology, U. S. C. School of Medicine.
Mr. Lowell C. Ruch, Executive Director, Hearing Center of Metropolitan Los Angeles.
Dr. Douglass E. Wheeler, Field Representative for Research on Effects of Industrial Noise, American Academy of Ophthalmology and Otolaryngology.

COLLEGE-WIDE COMMUNITY OCCUPATIONAL STUDY COMMITTEES

General Advisory Committee

- Mr. W. J. Bassett, Secretary, Los Angeles Central Labor Council (A. F. L.)
Mr. Walter J. Braunschweiger, President, Downtown Business Men's Association.
Dr. Arthur E. Corey, State Executive Secretary, California Teachers Association.
Mr. John A. Despol, Secretary-Treasurer, California Industrial Union Council (C. I. O.)
Mr. Bonar Dyer, President, Personnel and Industrial Relations Association.
Mr. William Holzhauser, President, Merchants and Manufacturers Association.
Mr. Franklin E. Kline, Manager, Los Angeles Office, California State Personnel Board.
M. Evelyn Lewis, President, Los Angeles Sunset District, California Federation Business and Professional Women's Clubs.
Mrs. Ralph E. Lewis, President, Los Angeles Tenth District, California Congress of Parents and Teachers, Inc.
Mr. John Long, General Manager, California Newspaper Publishers Association.
Mr. Leonard Mathy, Los Angeles State College of Applied Arts and Sciences.
President Howard S. McDonald, Chairman of the Committee, Los Angeles State College of Applied Arts and Sciences.
Mr. David R. Showalter, Southern California Broadcasters' Association.
Mr. E. M. Stuart, President, Hollywood Chamber of Commerce.
Dr. J. Burton Vasche, Associate Superintendent, California State Department of Education.
Mr. Harold Wright, General Manager, Los Angeles Chamber of Commerce.

Research Committee

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 Mr. Thomas Campbell, Area Manpower Director, State of California, Department of Employment.
 Mr. Walter Elieson, Business Specialist, United States Department of Commerce.
 Mr. Conrad Jamison, Vice President, Manager, Research Department, Security-First National Bank.
 Mr. W. E. McCann, Manager, Research Department, Los Angeles Chamber of Commerce.
 Mr. David Soash, Director of Research, Merchants and Manufacturers Association.

Public Relations Committee

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 Mr. Raymond E. Hayes, Department of Public Relations, General Motors Corporation.
 Mr. Frank McIntyre, Director of Public Relations, California Teachers Associations, Southern Section.

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 Mr. Chester C. Lincoln, Vice President, Security-First National Bank of Los Angeles.
 Mr. W. M. Rothaermel, Vice President, Pacific Mutual Life Insurance Company.

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- Mr. Fred Baer, Supervisor of Industrial Arts, Junior High School Division, Los Angeles City Schools.
 Dr. Melvin L. Barlow, Supervisor, Trade and Industrial Teacher Training, University of California.
 Mr. Horace W. Bates, Assistant Director, Instruction Department, El Camino College
 Dr. Howard A. Campion, Associate Superintendent, Los Angeles City Board of Education,
 Mr. Clifford Dobson, Supervisor, Industrial Education, Burbank Unified School District.
 Mr. Gordon Funk, Supervisor, Industrial Arts, Los Angeles City Board of Education.
 Mr. J. Lyman Goldsmith, Supervisor, Agricultural, Vocational, Industrial Arts Education, Los Angeles City Board of Education.
 Dr. Milo P. Johnson, Supervisor, Vocational Education and Industrial Arts, Santa Monica City Schools.
 Dr. John Lombardi, Dean of Instruction, Los Angeles City College.
 Mr. Howard E. Marvin, Director of Vocational Education, Pasadena City Schools.
 Mr. Lee W. Ralston, Director, Division of Trade and Industrial Education, Los Angeles County Schools.
 Mr. David O. Taxis, Consultant in Industrial Arts Education, Los Angeles County Schools.
 Mr. Wayne A. Wonacott, Industrial Arts Supervisor, Los Angeles City Board of Education.
 Mr. H. S. Wood, Director, Los Angeles Trade-Technical Junior College.
 Mr. Robert L. Woodward, Consultant in Industrial Arts Education, California State Department of Education.

INDUSTRIAL PLUMBING ENGINEERING ADVISORY COMMITTEE

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- Mr. Rod Antrim, Chairman, American Society of Sanitary Engineers.
- Mr. Frank R. Brown, Jr., Chairman, Education Committee Associated Plumbing Contractors of Los Angeles.
- Mr. George L. Campbell, Plumbers' Local No. 78.
- Mr. C. L. Freeman, Associated Plumbing Contractors of Los Angeles.
- Mr. G. E. Morris, Superintendent and Manager, Los Angeles Department of Building and Safety.
- Mr. Jack F. Parker, Chairman, Western Plumbing Officials Association, Educational Program.
- Mr. Hubert Reeves, Co-Publisher, Western Plumbing and Heating Journal.
- Mr. R. A. Samuelson, Los Angeles Department of Water and Power.
- Mr. Charles L. Senn, Engineer-Director, Bureau of Sanitation, Los Angeles City Health Department.
- Mr. P. R. Shea, General Staff Supervisor, Appliance and Dealer Promotion, Southern California Gas Company.
- Mr. Stephen I. Smoot, Chief of Plumbing Division, Los Angeles Department of Building and Safety.
- Mr. George M. Uhl, M.D., Los Angeles City Health Officer.
- Mr. W. A. Wilson, Division Sales Supervisor, Central Division, Southern California Gas Company.
- Mr. Robert A. Wood, Chief Plumbing Inspector, County of Los Angeles.

INDUSTRIAL PSYCHOLOGY ADVISORY COMMITTEE

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- Mr. Frank J. Glasgow, Employee Relations Manager, Safeway Stores, Inc.
- Mr. John F. Glick, Assistant to the President in Charge of Personnel and Training, J. W. Robinson Company.
- Mr. Ralph E. Windsor, Vice President, Bank of America, Personnel Relations Department.

JOURNALISM ADVISORY COMMITTEE

- Mr. Frank Howatt, Editor of Western Grower and Shipper.
- Mr. Irvin Borders, Los Angeles State College.
- Mr. Richard Hoffman, Los Angeles City College.
- Mr. Floyd Simpson, Los Angeles State College.
- Mr. Wirt Williams, Los Angeles State College.

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- Dr. Alvin G. Foord, Pathologist and Director of Laboratory Training School, Huntington Memorial Hospital.
- Dr. Nathan Friedman, Chief of the Laboratory Service, Cedars of Lebanon Hospital.
- Mrs. Hazel Current Rogers, Director of Laboratory Training, Sawtelle Veterans' Hospital.
- Dr. Raymond Stone, Director of the Los Angeles County Health Laboratory (retired).

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 Mr. Karl Kunze, Assistant Personnel Manager, Lockheed Aircraft Corporation.
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 Mr. R. B. Rucker, Vice President, McKesson & Robbins, Inc.
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 Sister Austin, Director of Nursing, St. Vincent's College of Nursing.
 Miss Mildred Brown, Director, School of Nursing, Los Angeles County General Hospital.
 Mrs. Vivienne Buckley, Board of Nurse Examiners, Los Angeles.
 Miss Nina Bethea Craft, Director, Nursing Education and Nursing Services, Los Angeles County General Hospital.
 Miss Martha Eilers, Director, Bishop Johnson College of Nursing.
 Mrs. Kendall Frost, Chairman, Nursing, Committee Welfare Council.
 Miss Freda E. Gooding, Hollywood Presbyterian Hospital.
 Mrs. Lula K. Wolfe Hasenplug, Dean, School of Nursing, U. C. L. A.
 Miss Velma Kish, Children's Hospital, Los Angeles.
 Miss Eunice Lamona, Los Angeles City Board of Education.
 Miss Elizabeth Miller, School of Nursing, St. Vincent's College of Nursing.
 Mrs. Kathryn J. Nelson, Dean, School of Nursing, College of Medical Evangelists.
 Miss Zella Nicholas, Superintendent of Nurses, California Lutheran Hospital.
 Miss Marjorie Quigley, Executive Secretary, District No. 5, California State Nurses Association.
 Miss Delores Shimmel, Director, School of Nursing, Huntington Memorial Hospital.
 Miss Eva A. Stockonis, School of Nursing, Queen of the Angeles Hospital.
 Sister Theresa, Director of Nursing, Queen of the Angeles Hospital.
 Miss Lillian Vosloh, Assistant Director, Huntington Memorial Hospital.

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 Mr. Richard Bovard, General Manager, Pacific Neo-Gravure Company; Member, Printing Industry Association Training Committee.
 Mr. Dwight Adams, Assistant Dean, Los Angeles Trade Technical Junior College.
 Mr. Ewart Johnson, Coordinator of Printing Department, Los Angeles Technical Junior College.
 Mr. John A. Morton, Dean of Instruction, Los Angeles State College.
 Mr. Willis M. Kenealy, Dean, Applied Arts and Sciences, Los Angeles State College.
 Mr. Floyd R. Simpson, Chairman, Division of Business and Economics, Los Angeles State College.
 Mr. Robert J. Williams, Admissions Officer, Los Angeles State College.
 Mr. Adam E. Diehl, Dean of Curriculum Services, Los Angeles City College.
 Mr. Richard J. Hoffman, Chairman of Journalism and Graphic Arts Department, Los Angeles City College.

RECREATION EDUCATION ADVISORY COMMITTEE

- Mr. Ferdinand Bahr, Recreation Specialist, State of California Recreation Commission.
- Mr. Carson Conrad, Consultant in Community Recreation, State of California, Department of Education.
- Mr. William Frederickson, Superintendent of Recreation and Parks Department, City of Los Angeles.
- Mr. B. Paul Gruendyke, Superintendent of Parks and Recreation, County of Los Angeles.
- Mr. Art Howser, Manager, Studio Club, Twentieth Century Fox, Inc.
- Mr. Lawrence E. Houston, Director, Physical Education, Safety and Youth Services Branch, City of Los Angeles Board of Education.
- Mr. K. L. Kellough, Recreation Director, North American Aviation, Inc.
- Mr. E. L. McKenzie, Assistant Regional Director, Boys Clubs of America.
- Mr. Maurice Ostomel, Assistant Executive Secretary, Welfare Planning Council, Los Angeles Region.

GENERAL INFORMATION

AIMS AND FUNCTIONS

The Los Angeles State College was created by legislative act in 1947, to be located in the City of Los Angeles. In 1949 a new legislative act reconstituted the institution and named it the Los Angeles State College of Applied Arts and Sciences.

The college is established to serve the needs of the community. Its functions include the training of students in the applied arts and sciences to serve business and industry, the offering of a general and liberal education for responsible citizenship, the preparation of students for advanced professional study, and the preparation of teachers.

ORGANIZATION OF THE COLLEGE

The Los Angeles State College of Applied Arts and Sciences offers upper division and graduate programs. The Los Angeles City College, a junior college located on the same campus, offers a lower division program. Though separate institutions, the two schools cooperate closely in use of plant and facilities and share the services of certain senior administrative officers. The contractual relationship between the State Department of Education and the Los Angeles City Board of Education broadens the resources of both colleges and permits the registration of freshmen and sophomore students in a junior college directly correlated to the upper division program of a state college.

ACCREDITATION

Los Angeles State College of Applied Arts and Sciences is accredited by the Western College Association and the California State Department of Education.

EXTENDED DAY PROGRAM

The extended day program is that part of the regular course offerings scheduled for the late afternoon, evening, and Saturday morning. The purpose of the extended day program is to provide mature persons with opportunities to do college-level work leading to advancement in business, education, or other professional fields. Credits earned in the extended day program may be applied toward the completion of degree or credential requirements, or the classes may be taken for cultural and intellectual improvement.

The courses offered in the extended day program are given on the same basis as the day classes, using the same facilities and textbooks, and meeting the same requirements as the day classes. In the majority of these classes the instructor is a member of the regular day faculty.

Students in the extended day program must meet the same admission requirements as day students; that is, they must be formally admitted to the college on the basis of complete transcripts on file in the Admissions Office. However, students who have not complied with these regulations are regarded as *nonmatriculated* students and are limited to six units per semester in the extended day program.

In many areas the graduation requirements may be completed by courses offered in the extended day program. However, certain classes required for teaching credentials are offered only in the day program. Students who plan to complete degree or credential requirements exclusively in the extended day program, therefore, should plan their programs in consultation with an adviser in their major field.

Admission

Students planning to enroll in extended day classes only for a total of less than six (6) units per semester need not make formal application for admission or file transcripts unless they wish acceptance as degree or credential candidates. They must, however, meet all course prerequisites. Furthermore, no student under disqualification from any college or junior college may register under this privilege unless formally admitted. Students planning to take any classes in the day program or who plan to enroll for more than six (6) units in the extended day program must follow the procedure and requirements outlined on pages 39 and 40.

Credit

All courses offered in the extended day program are accepted toward graduation, credentials, or certificates unless otherwise indicated.

SUMMER SESSION

The college offers a six-week summer session which begins the Monday following the close of the spring semester. Work may be taken toward the Bachelor of Arts, Bachelor of Science, or Master of Arts degree, and all teaching credentials. Day and evening classes are scheduled. It is not necessary to file an application for admission to the summer session unless the student is working toward a degree or credential.

Many special features are included in the summer session that are not scheduled during the regular school year. These include workshops and seminars for teachers and for other occupational groups. An extensive program of recreational activities is arranged for summer session students. A tuition fee of \$8 per unit (subject to change) is charged. For details, write to the Director of Summer Session.

EXTENSION SERVICE

The extension service is that part of the instructional program which provides off-campus classes in response to the expressed needs of organizations and groups within Los Angeles and nearby counties. The aim of the extension service is to meet more adequately the needs of the community by providing opportunities for the professional, cultural,

and vocational betterment of individuals who cannot take college work in residence.

Extension courses are planned for those wishing to earn college credit and may, under certain conditions, be applied toward a degree or credential. Standard courses may be modified or special courses may be designed to meet the specific needs of the group. Courses may be started at any time and usually meet once a week for 16 weeks. A minimum of 20 students is required to establish an extension course.

Persons desiring detailed information regarding the organization of an extension course or current extension offerings should contact the Supervisor of Extension Service.

WORK-STUDY PROGRAM

The work-study plan combines classroom instruction with practical experience in business firms and industrial plants.

This plan is advantageous to the student in that it enables him to:

1. Practice application of the principles he is studying.
2. Learn to work with others through first-hand experience.
3. Develop a sense of responsibility in doing productive work.
4. Qualify for advanced positions upon graduation.

Private employers in the Los Angeles metropolitan area have enthusiastically endorsed this plan, and provisions have been made to use a number of college students on a part-time basis as a part of their college program.

Under this plan, participating students earn one unit of credit, as a rule, for each eight hours of work per week per semester. The maximum number of units that may be earned in a four-year course and applied toward the bachelor's degree is 16. Of these, a maximum of eight units may be earned in the upper division with not more than four units in any one academic year.

To qualify for participation in the work-study program the student must have attended Los Angeles City or State College for at least a semester, have a grade average of "C" or better, and be recommended by faculty members and a former employer in the field of his proposed work-study. Applications for participation in the business and industry phases of the program should be filed in Room 2 of Holmes Hall.

All work-study experience must be related to the student's major and must be supervised by the Work-Study Coordinator and an academic department. The student must register in the regular manner to receive credit for work-study, and must meet certain requirements including attendance at class meetings and preparation of student reports.

INTERNSHIPS IN PUBLIC SERVICE

This program of cooperative education combines classroom instruction with practical experience in government agencies and quasi-public enterprises. The regulations governing the operation of this program are similar to those of the work-study program, with the following variations:

1. Applicants for participation must be in senior standing.
2. Maximum number of units that may be earned and applied toward the bachelor's degree are eight.
3. In some instances a student must pass a qualifying civil service examination for admission to the internship.
4. Interested students should discuss opportunity and qualification details with the Coordinator of Training for Government Service.

PROVISION FOR VETERANS

The Los Angeles State College of Applied Arts and Sciences is approved for the training of veterans under Public Laws 346, 16, 550 and 894. The State of California has made provision for educational assistance to qualified veterans who were residents of California at the time of entering service.

LOCATION

Los Angeles State College of Applied Arts and Sciences at 855 North Vermont Avenue is situated in the heart of the city, surrounded by shopping districts, apartments and private homes. The college is connected, by main arteries of busses and streetcars, with all sections of the metropolitan area. The Los Angeles-Hollywood Freeway is four blocks away.

BUILDINGS AND EQUIPMENT

Los Angeles State College utilizes the facilities of the Los Angeles City College. The 30-acre campus includes extensive facilities in classrooms, laboratories, and specialized buildings and equipment. There are a men's gymnasium, a women's gymnasium, athletic field, tennis courts, swimming pool, student union, little theatre, an auditorium of 1,449 capacity, and various other administrative and instructional buildings.

COLLEGE LIBRARY

The State College Library occupies six buildings adjacent to North Heliotrope Drive and provides a main book stack area and reserve, reference, periodicals and education rooms, and order and catalog departments. The reference and periodicals rooms together form a center for bibliographic work with the public card catalog and numerous indexing services. The library is open Mondays through Thursdays from 8 a.m. to 9 p.m., Fridays from 8 a.m. to 5 p.m., and Saturdays from 9 a.m. to 1 p.m. Students are actively assisted in the use of library facilities by a staff of 12 librarians, nine library assistants, and several part-time student assistants.

The book collection includes more than 56,000 volumes, including 9,700 bound volumes of periodicals, selected particularly for the needs of upper division and graduate students. Among the 900 periodicals and newspapers and the 46 indexing services received currently are the more significant federal and California state publications. The reference collection includes 4,300 volumes and a pamphlet file of 2,400 pieces. Early volumes of periodicals, the *New York Times*, and several reference sets

are available on microcards and microfilm in the reference room where the reading machines are also available. In the education room are located the juvenile collection of 3,800 volumes, the textbook collection, California state textbooks, the curriculum file, and the 370-379 sections of the book collection.

The State College Library is supplemented by the unusual library resources of the Los Angeles metropolitan area, including the 85,000 volumes of the Los Angeles City College Library on the same campus. Among the libraries available to students are two large university libraries, the Los Angeles Public Library, and the world-famous collections of the Clark and Huntington Libraries. In the Los Angeles County Museum there are special collections of materials and objects which are available for loans. Books may also be obtained on interlibrary loan from the California State Library.

Audio-visual services are provided by the Campus Film Center and the Music Department.

The Los Angeles State College of Applied Arts and Sciences is situated in Beverly Hills, California, in a beautiful setting. The college is a modern building with all the latest in audio-visual equipment and a library of over 100,000 volumes.

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COLLEGE LIBRARY

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PERSONNEL SERVICES

Personnel services available to students include counseling, testing, communications center, placement, and health service. Veterans may avail themselves of the services of the Veterans Administration representative in Administration Building, Room 112. Students may get further information regarding these services from the offices of the Associate Deans and from the Office of the Dean of Student Personnel.

HEALTH SERVICES

Los Angeles State College provides facilities for medical examination, including chest X-ray, of each student on the campus as soon as possible after entrance to the college.

In addition, appointments are made with all education majors for a physical check-up during their first semester of attendance.

Arrangements are made for an X-ray mobile unit to be on campus annually, enabling students to have free chest X-rays with a minimum of inconvenience. All students are strongly advised to take advantage of this opportunity. At other times chest X-rays can be had free at various local health offices. Location and time can be obtained at the State Health Office.

First aid, health information, and health counseling are always available to students during office hours in the Health Office in Bungalow 15.

Three full-time physicians, two registered nurses, and a medical secretary are in attendance on the campus five days a week to make the above services possible.

COUNSELING CENTER

Counseling

Los Angeles State College seeks to give individual attention to the needs of students. A staff of trained counselors is available to students who wish help in (1) the choice and preparation of their educational and vocational objectives; (2) effecting sound personal adjustment and development; (3) analyzing and solving problems of a personal nature. Appointments may be scheduled with the secretary in Bungalow "J."

Testing

All new undergraduate students and directed teaching candidates registering for twelve (12) or more units must take the Entrance Examination Battery of Tests prior to registration. The schedule of examinations is obtained at the time of application for admission. Various divisions require comprehensive survey examinations during the course of a major. The college provides facilities for administering, scoring, and interpreting standardized tests under the direction of the Testing Bureau. Arrangements for individual tests are to be made through the Counseling Center, Bungalow "J."

Communications Center

Success in college is dependent upon competence in the skills of communication. The Communications Center includes on-campus student services which provide developmental and remedial assistance in acquiring reading, writing, speaking, and hearing proficiencies. Further information may be secured in the Communications Center at 724-26 N. New Hampshire Street.

STUDENT GOVERNMENT**Day Students**

The Executive Council of the Associated Student Body is a policy forming organization for campus activities and organizations. The Cabinet of Commissioners represents the functional arm of the association, and is concerned with athletics, rallies, elections, interest clubs, activity calendar, publications, public relations, student finance, and cultural relations. Finances and business management are handled by a graduate manager and a finance committee.

All regular day students have the rights and privileges of membership in the Associated Student Body and its organizations. Women and men students who are members of the Associated Student Body are eligible for membership in the respective Associated Women Students or Associated Men Students, organizations.

Extended Day Students

All students taking their entire program in late afternoon or evening classes are members of the Extended-Day Student Body. Their policy forming organization is the Extended Day Student Council. The council is responsible for the planning of monthly social, educational, and cultural events.

STUDENT ORGANIZATION

The day student may elect membership in many of the special interests groups, such as the Scholarship Society, Language Arts Society, California Student Teachers' Association, etc. These, and other organizations, are chartered and coordinated by the Inter-Club Council.

The four social fraternities and three sororities are regulated by the Interfraternity and Panhellenic councils. Fraternity and sorority handbooks are available at registration and in the Student Activities Office.

ATHLETICS

The intercollegiate athletic program at Los Angeles State College is considered a phase of the physical education program. Participation is open to any full-time undergraduate student in good scholastic standing.

Los Angeles State College has the opportunity to participate in regional and national competition through its membership in the National Collegiate Athletic Association and the National Association of Intercollegiate Athletics. Every effort is made to send athletes and teams to participate in such competition when they have achieved outstanding records.

The college fields teams in 13 intercollegiate sports. (Football, basketball, track and field, baseball, swimming, water polo, cross country, wrestling, gymnastics, tennis, golf, fencing, and bowling.) The coaches of the various sports are instructors in the Division of Health, Physical Education, Recreation, and Athletics.

STUDENT PUBLICATIONS

The *College Times* is the day students' newspaper published weekly by the Associated Students. The *Night Times* is the student newspaper published monthly for Extended Day students. The college annual is called the *Pitchfork. Statement* is a student literary publication which appears each semester. The *Student Handbook*, put out by the Associated Students, serves as a source of information on student functions and student affairs, and includes a detailed description of the nature and objectives of the various organizations.

SCHOLARSHIPS

Scholarships are administered by the Loan and Scholarship Committee, and are awarded on the basis of (1) need, (2) scholarship, (3) co-curricular participation, and (4) potential future. Additional information may be obtained at the Office of the Associate Dean of Student Activities.

Al Hull Alumni Memorial Scholarship: \$25 offered for a man or woman physical education, health, or recreation major, granted annually in the spring of each year.

Anonymous Memorial Scholarship: Two scholarships of \$25 per semester. Senior or graduate students, preferably majoring in language or literature, are eligible to apply.

Blue Key Scholarship: \$25 per year. High junior, senior, or graduate male students are eligible to apply.

Campus Book Store Scholarship: \$25 per semester. Funds for this scholarship are taken from the Campus Book Store Scholarship Sinking Fund. All men and women students are eligible to apply.

College Book Company of California Scholarship: One \$25 scholarship offered to men or women each semester. Funds for this scholarship are taken from the College Book Company of California Scholarship Sinking Fund. A minimum grade point average of 2.0 is required. In addition, the individual should be a student in the Division of Business and Economics.

George Burleigh Scholarship: \$25 per semester. Funds for this scholarship are taken from the Burleigh Book Store Scholarship Sinking Fund. All men and women students are eligible to apply.

Industrial Plumbing Engineering Scholarship: Offered by the Association of Plumbing Contractors of California. \$1,000 per year offered to male students who are in their sophomore year at a junior college or in their junior or senior year at Los Angeles State College.

Institute of International Education: Fellowships for graduate study abroad in 1955-56 are offered through this agency. Detailed eligibility requirements and application information may be obtained in the Office of the Associate Dean of Student Activities.

Joseph W. Stanley Associated Student Memorial Scholarship: \$25 per semester. All men and women students who have been outstanding in student activities are eligible to apply.

Los Angeles State College Faculty Wives Scholarship: \$25 offered each year to a senior or graduate woman student.

- Los Angeles State College Semiannual Essay Contest: Cash prizes are awarded annually to the winners of an essay contest sponsored by Mr. George Burleigh and conducted by the Division of Language Arts.
- Omega Alpha Delta Helen N. Fox Scholarship: A scholarship covering tuition costs for the summer session offered to a woman student enrolling in summer session. The applicant must have been registered at Los Angeles State College for the preceding year with a total of six units, must be employed full time and have a grade point average of 2.0.
- Phi Mu Alpha Scholarship: Two \$25 scholarships offered annually to outstanding male musicians in their sophomore year at a junior college who plan to attend Los Angeles State College majoring in music.
- Psychology Club Scholarship: One \$25 scholarship offered to men or women psychology majors who are at least an upper junior at Los Angeles State College having a 2.0 grade point average in their major as well as in other State College courses.
- Recreation Directors' Association Scholarship: Two \$50 scholarships offered by the Recreation Directors' Association of Los Angeles. Awards are made yearly to one man and one woman student, majoring in recreation.
- Sigma Alpha Iota: One \$25 scholarship offered to junior, senior, or graduate women students who are majoring in music having a 2.0 grade point average in their major.
- Scholarship Society Scholarship: \$25 offered each semester to a member of the Scholarship Society having an academic average of 2.2 or better.
- Special Education
- Fellowships: Five graduate fellowships of \$1,000 each are being offered through the California Congress of Parents and Teachers, Incorporated, in the following fields of special education: Physically handicapped, cerebral palsied, deaf-hard of hearing, speech defective, blind-partially sighted, mentally retarded. Further information may be obtained from the Associate Dean of Student Activities.
- Scholarships: Eight \$100 scholarships offered by the California Congress of Parents and Teachers, Incorporated. To be eligible students must be taking six or more units in courses leading to credentials for teaching the physically handicapped, cerebral palsied, deaf-hard of hearing, speech defective, blind-partially sighted, mentally retarded.
- Teacher Elementary Education Scholarships of the California Congress of Parents and Teachers: Four \$150 scholarships offered per year to elementary education majors.
- Teacher Secondary Education Scholarships of the California Congress of Parents and Teachers: Two \$200 scholarships offered per year to secondary education majors who are fifth year students.

LOANS

A limited number of short term loans is available from (1) Associated Student Loan Fund, (2) Faculty Loan Fund for Students. Applications for these loans should be made to the chairman of the Loan and Scholarship Committee in the Office of the Associate Dean of Student Activities.

Opti-Mrs. Loan Fund for Women Student Teachers: \$75 per semester available to women enrolled in directed teaching.

College Book Co. of California Loan Fund: Moneys are made available for books and supplies to the limit of \$25 per semester. Moneys loaned are to be paid back before the end of each semester to the Loan and Scholarship Committee, the accumulated funds to be available for a future scholarship.

Campus Book Store Loan Fund: Moneys are made available for books and supplies to the limit of \$25 per semester. Moneys loaned are to be paid back before the end of each semester to the Loan and Scholarship Committee, the accumulated funds to be available for a future scholarship.

Certain additional loan funds are available to deserving students, payable the year following graduation.

LIVING ACCOMMODATIONS

There are no dormitories on the campus. Addresses of suitable living accommodations may be obtained through the office of the Associate Dean of Student Activities.

PLACEMENT

Students are aided in securing desirable positions, both part-time and full-time.

The Placement Officer works cooperatively with all departments of the college to establish a working relationship with business, industry, and the professions. Special placement services are maintained for graduates and graduating seniors. A separate office is also maintained to assist students in obtaining part-time work to help defray expenses while attending college.

Complete records of the achievements, experience, and personal qualifications of candidates are kept on permanent file in the Placement Office and confidential copies of these records are made available to employers upon request.

The work-study program is described elsewhere in this catalog. This program combines classroom instruction with practical experience in business and industry.

Teacher Placement Service

The college operates a teacher placement service to assist its students and graduates in obtaining teaching positions for which they are qualified. Candidates for teaching positions are urged to register with the Teacher Placement Service at the beginning of the school year in which they are doing their student teaching. No fee is charged for placement services.

SCHEDULE OF FEES

The regular fees of the college are given below. The fees for auditors are the same as for those receiving credit for a course.

REGISTRATION FEES (Payable at time of registration)

		<i>Total</i>
Each student enrolled for less than 4 units		
Materials and service	\$9.00	
Student activity	5.00	\$14.00
Each student enrolled from 4 to not over 6 units		
Materials and service	15.00	
Student activity	5.00	20.00
Each student enrolled for over 6 units		
Materials and service	20.00	
Student activity	9.00	29.00
Nonresident tuition fee (to be announced at a later date)		

OTHER FEES OR CHARGES (Payable when service is rendered)

Extension, per unit		\$7.50
Late registration		2.00
Change of program		1.00
Transcript of records (after first copy)		1.00
Diploma fee, for graduating seniors		3.00
Library books or materials overdue, damaged or lost (consult the library for schedule of fees)		
Music lessons (for private instruction)	1.00 to	4.00
Failure to meet administratively required appointment or time limit		2.00

REFUND REGULATIONS

A portion of the materials and service fee charged a regular session student may be refunded if written application for refund is made not later than two weeks following the day of the term that instruction begins. The amount of \$2 shall be retained to cover the cost of registration. In the event the unit load is reduced during the refund period to a lower fee category the difference between the two fees less the amount of \$2 may be refunded. See class schedule at registration time for dates of refund period.

VETERANS REFUNDS

Students receiving letter of eligibility from the state or federal veterans authorities are entitled to a full refund if their letter of eligibility is dated back to the first day of instruction. If not, a pro rata refund will be made.

Further information and application forms may be secured at the Business Office, Administration Building, Room 222, Monday through Friday from 9 a.m. to 4 p.m. or in the Evening Division, Administration Building, Room 114, after 4 p.m. every day except Friday.

ADMISSIONS PROCEDURE

APPLICATION FOR ADMISSION

New Students: Students wishing admission to Los Angeles State College must file applications with the Admissions Office on the form provided for that purpose. The application form will be mailed to prospective applicants upon request. The application should be filed by August 19, 1955, for the fall semester, and January 6, 1956, for the spring 1956 semester. The college reserves the right to refuse to accept applications filed after these dates.

Returning Students: Students planning to return to Los Angeles State College after an absence of one or more semesters must file applications for readmission, in accordance with the procedure indicated above for new students.

Nonmatriculated Students: Adult students wishing to enroll in late afternoon, evening or Saturday classes in the extended day program may register as "nonmatriculated students" without filing advance applications or transcripts of previous college credit. It is expected, however, that the student has the qualification to pursue course work at the upper division level. Students under disqualification from Los Angeles State College or any other college may not register as nonmatriculated students. Nonmatriculated students are limited to 6 units maximum and may not register in day classes without advance authorization by the Admissions Office.

TRANSCRIPTS REQUIRED

A student seeking regular admission to the college must arrange to have official transcripts of all previous college work sent to the Admissions Office from all colleges in which the student has previously registered. An applicant may not disregard any part of his college attendance when applying for admission. A transcript is not considered official unless it is received by the Admissions Office direct from the institution which issues it. The applicant should make arrangements for the sending of transcripts as early as possible. The Admissions Office cannot guarantee the processing of transcripts received after the published deadline. All transcripts become the property of this college and cannot be released to the student nor can copies of them be provided. These regulations and procedures apply to all applicants, including students seeking admission to late afternoon and evening classes offered in the extended day program, except as indicated below:

Applicants who wish to enroll for limited programs of six units or less in late afternoon, evening or Saturday morning classes, and who do not intend to work for degrees or credentials issued by the college, need not file application or transcripts with the Admissions Office. Students admitted through this procedure are classified as nonmatriculated students and are not regarded as degree or credential candidates.

ADMISSIONS PROCEDURE

ADMISSIONS POLICIES

(Admissions standards at Los Angeles State College are in accordance with policies stated in the California Administrative Code, Title 5, Education, which provides uniform admission regulations for all California State Colleges. Since Los Angeles State College does not offer the first two years of college work, only those sections of the Code referring to students seeking admission with at least 54 units of transfer credit from accredited junior colleges, colleges or universities are applicable. The scholarship requirements as stated in the following paragraphs are in accordance with those Code provisions which are applicable to Los Angeles State College.)

ADMISSION TO UNDERGRADUATE STATUS

Los Angeles State College does not offer course work at the freshman and sophomore level. In order to qualify for admission as an undergraduate student, an applicant must have completed a minimum of 54 units of acceptable academic work at accredited institutions of collegiate level. The student must have earned at least a "C" average in all college work undertaken and have been in good standing at colleges previously attended. While no specific course pattern is required for admission, students attending other institutions in preparation for transfer to Los Angeles State College should select courses to satisfy General Education requirements (see page 52) and preparatory courses as required in the proposed major field. A student not meeting the above requirements may be admitted on probation if, in the judgment of the college officials, such action is warranted.

ADMISSION WITH GRADUATE STATUS

This college recognizes a four-year bachelor's degree earned at an accredited college or university as meeting the requirements for graduate status, provided the pattern of course work is substantially similar to that required for the Bachelor's Degree at Los Angeles State College. Graduate status does not constitute admission to candidacy for the master's degree, which may be granted only upon meeting the requirements described on pages 56-57.

ADMISSION TO TEACHING CREDENTIAL PROGRAMS

Admission to the college as a regular student does not constitute admission to the teaching credential program. Students who intend to work toward credentials must make application to the Education Division during their first semester of attendance, following the procedure outlined in the section of this catalog dealing with that subject. See pages 109-112.

ADMISSION OF STUDENTS FROM FOREIGN COUNTRIES

International students seeking admission to the United States on the basis of acceptance to this college must make use of a special application form available from the Admissions Office. Applications will be mailed to prospective students upon request. This application calls for verification of the student's ability to read, speak, and write English, as well as other data necessary to provide a basis for determining the applicant's eligibility. A student seeking admission to the United States should familiarize himself with all pertinent governmental regulations of his home country and the United States.

Credits earned in institutions abroad are evaluated by the Admissions Officer with the cooperation and assistance of the United States Office of Education. Since such evaluations generally require an exchange of correspondence the applicant is cautioned to apply at least six months in advance of the date when he hopes to begin his studies in this country.

A student from abroad will be admitted only if the college is assured that his needs can be adequately met by the program and curriculum of this college.

The college makes a special effort to assist in the international students' orientation to the American culture and system of education. The course, Social Science 100, is specifically designed for that purpose and is recommended to every international student admitted to the college.

Dr. Ake Sandler, Associate Professor of Government at Los Angeles State College, serves also as faculty adviser to the international students.

CANCELLATION OF ADMISSION

A student who is admitted to the college for a given semester but who does not register at the specified time will have his admission canceled. If he applies later he must meet the current rules for admission. All transcripts on file will be retained by the Admissions Office and may be used for admission at a later date. However, the student must file a new application form if and when he again seeks admission.

EVALUATION OF TRANSFER CREDIT

The Admissions Office will evaluate previous college work in terms of its relationship to the requirements of Los Angeles State College. All new students will be issued a "Credit Summary" which serves as a basis for determining specific remaining requirements for the student's specific objective. Once issued to the student, the evaluation becomes an official contract between the student and the college as long as the student matriculates at the date specified, pursues the objective specified, and earns a minimum of 12 units at Los Angeles State College in each calendar year. The student will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

In view of the foregoing regulations the student is cautioned to notify the Admissions Office immediately if he changes the objective specified in his evaluation. Permission to deviate from the requirements listed on the evaluation must be obtained by petition on the form provided for that purpose. This form is available at the Registrar's Office.

While graduation requirements for a given student remain contractual as indicated above, the student is held responsible for complying with all changes in regulations and procedures which may appear in subsequent catalogs.

Due to the large volume of transfer students, the Admissions Office does not find it possible to provide the Credit Summary to all new students *before* registration. However, each new student will receive every assistance in planning his first semester's program, pending receipt of the Credit Summary.

CREDIT FOR MILITARY SERVICE

The college allows credit for service in the various branches of the United States armed forces in accordance with the recommendations of the American Council on Education. In order to receive such credit, the student must file with the Admissions Office a photostatic copy of his honorable discharge. This should be done at the time application for admission is made.

CREDIT FOR EXTENSION AND CORRESPONDENCE COURSES

The maximum amount of credit through correspondence courses and extension courses which may be allowed toward the bachelor's degree is 24 units, not more than 12 of which may be transferred from another college or university. Extension course credit does not apply toward the minimum residence requirement at Los Angeles State College.

JUNIOR COLLEGE CREDIT

No unit credit will be allowed for course work taken at a junior college after the student has earned 64 units of junior college or college credit. No upper division credit can be allowed for courses taken in a junior college. No credit may be allowed for professional education courses taken in a junior college.

CLASSIFICATION OF STUDENTS

- Matriculated..... A student who has been formally admitted to the college on the basis of complete transcripts on file in the Admissions Office.
- Nonmatriculated..... A student who has not been formally admitted as a regular student. Nonmatriculated students are limited to six units per semester in late afternoon, evening, and Saturday classes. They may not enroll in day classes without approval of the Admissions Office.

GENERAL REGULATIONS

REGISTRATION PROCEDURE

At the time of registration, every student is required to file with the Registrar a study list including all the courses in which the student is registered.

The presentation of a study list by the student and its acceptance by the college is evidence of an obligation on the part of the student to perform the designated work to the best of his ability. Withdrawal from, or neglect of, any course entered on the study list, or a change of program, including a change of section of the same course, without the formal permission of the Registrar, makes the student liable for a grade of "F" in the course.

A student may not receive credit in any courses in which he is not officially registered.

Late Registration

Students who have been cleared by the Admissions Office but who are unable to register during the regular registration period may register late only with the approval of the Registrar. **LATE REGISTRANTS WILL FIND THEMSELVES SEVERELY HANDICAPPED IN ARRANGING THEIR PROGRAMS AND MUST PAY A TWO-DOLLAR (\$2) LATE REGISTRATION FEE.** The last day to register late each semester will be announced in the class schedule.

Study Load

Matriculated undergraduate students may register for 16 or fewer units per semester without special permission. By petition to the Registrar the student may carry 17 units if the grade point average for the previous semester was 1.5, and 18 units if the average was 2.0. Eighteen units are the maximum. The above study-load limit may be increased by one unit in activity courses provided the 18-unit maximum is not exceeded. No new students may enroll for more than 16 units. Graduate students who are candidates for the master's degree may count a maximum of 16 units per semester on their program.

Registration in the Work-Study Program

The student must first register in the Work-Study Office, Holmes Hall 2, where he will complete his application. After clearing through the Work-Study Office, he will then receive approval from his Division Chairman and will be assigned a Work-Study Counselor in his division, at which time he will be given his Work-Study class ticket (198 in his major or related field) which he registers in the regular manner in order to receive Work-Study credit. (Refer to page 34.)

Selective Service Regulation

In order to qualify for a deferment or postponement of military service under selective service procedures, a student must be registered for 15 or more units and must remain in continuous attendance during regular sessions. The college serves as a reporting agency only, and any decisions affecting the student's selective service status will be made by the local board. Certification of registration and attendance to the selective service boards is sent only upon the student's request.

Auditors

A properly qualified student may apply for admission to attend classes as an auditor. The student must meet the regular college entrance requirements and must pay the same fees as other students. An auditor may not change his registration to obtain credit after the last date to add courses to the study list.

Registration in Los Angeles City College Courses

In certain cases Los Angeles State College matriculated students may be permitted to carry Los Angeles City College classes as part of their study lists. This may be done only upon application to the State College Registrar's Office. Requirements for permission to cross-register include a 1.0 grade average, prior approval of the State College Division Chairman concerned, approval of the City College instructor, and final verification by the State College Registrar. A student may not carry more units in City College classes than in State College classes. Details regarding procedure will be available at registration time. **NONMATRICULATED STUDENTS WHO WISH TO TAKE CITY COLLEGE CLASSES MUST REGISTER SEPARATELY.**

Dual Registration

A student may not be registered in Los Angeles State College and also in another institution simultaneously without prior permission of the Registrar.

Registration in Graduate Courses

Students within six units of graduation may be granted permission by prior petition to take courses (including "200" courses) for graduate credit. Graduate courses carry no credit toward the bachelor's degree.

CHANGE OF PROGRAM**Addition of Courses**

Any addition including a change of sections of the same course must be processed on the official change-of-program form obtained at the Registrar's Office. Such changes may be made only during the dates indicated in the Class Schedule.

Withdrawal From Courses

Forms for official withdrawal from a course may be obtained in the Registrar's Office.

If a student officially withdraws from a course during the first six (6) weeks of a semester, a grade of "W" will be recorded. If he withdraws during the remainder of the period in which withdrawals are allowed, either a "WP" or a "WF" will be recorded, depending on whether he has the approval of the instructor and is doing at least "C" level work at the time of official withdrawal.

Students who withdraw from a course without completing the official forms at the Registrar's Office will automatically receive an "F" for the course.

ATTENDANCE REGULATIONS

The effect of absence from class upon the student's grade is at the discretion of the individual faculty member. However, in courses involving lectures and direct student participation, absence will undoubtedly affect the student's grade. The student is responsible for making arrangements with his instructor to make up work missed due to unavoidable absence.

SCHOLARSHIP POLICIES

Grades and Grade Points

In Los Angeles State College, the evaluation of the student's work in each course is reported to the Registrar as follows:

A	Excellent	3 grade points per unit
B	Good	2 grade points per unit
C	Average	1 grade point per unit
D	Barely passing	0 grade points
F	Failure	0 grade points
WP	Withdrawn passing	0 grade points
WF	Withdrawn failing	0 grade points
I	Incomplete	0 grade points
CR	Credit (course passed, no letter grade assigned)	not figured in grade point computation

Course reports filed by instructors at the end of each semester are final.

Incomplete Grades

The grade "I" is recorded for work which is of satisfactory quality but which is incomplete for reasons acceptable to the instructor. Arrangements for a grade of "I" must be made with the instructor prior to the end of the semester.

A student to whom an incomplete mark has been assigned may by arranging with the original instructor, otherwise with the chairman of the division, complete the required course work and receive another letter grade.

The make-up of an "incomplete" as described above is permissible only within the period of a calendar year following assignment of the mark. Incomplete marks not made up within this period remain on the student's record. Until the "I" grade is made up it is regarded as an "F" grade in the computation of the student's grade point average.

Repeated Courses

Students may repeat courses in which they received marks of "D," "F," or "I," and receive credit for the second mark attained. Repeat of a "D" grade carries no additional unit credit. This rule does not apply to candidates for the master's degree. (See Graduate Bulletin.)

Probation

Any student whose scholarship record shows a grade point average of less than "C" (1.0) for all work attempted at Los Angeles State College will be placed on probation.

Any student who makes less than a "C" average at Los Angeles State College for two consecutive semesters will be placed on probation even though the over-all average at Los Angeles State College is above a "C."

Probationary status will be continued until the student has removed the grade point deficits or is disqualified in accordance with the regulations under the paragraph, "Disqualification."

Disqualification

Any student who makes less than a "C" average in any semester while on probationary status will be disqualified.

Disqualified students may petition for readmission after one full semester has elapsed. Petitions will receive consideration if accompanied by evidence of completion of satisfactory academic work elsewhere or evidence of successful work experience.

Examinations

Final examinations are required in all courses. No final examination shall be given to individual students before the regular scheduled time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements *in advance* with the instructor to have an "incomplete" grade reported and must then follow the regulations concerning make-up of "incomplete" grades. No exception shall be made to this rule without the written approval of the instructor, the Division Chairman and the Dean of Instruction.

Honorable Dismissal

In order to qualify for an honorable dismissal, the student must be in good standing at the time of his termination of attendance at the college. He must be free from financial obligations to the college and disciplinary action. Academic disqualification does not constitute dishonorable dismissal.

TRANSCRIPTS

Upon request to the Registrar each student will be provided with one official copy of his college record, without charge. A charge of \$1 will be made for each additional transcript requested by the student. No transcript will be supplied for college work taken in other institutions.

EXPLANATION OF UNIT AND COURSE NUMBERING SYSTEMS

Unit of Credit

Except for activity type courses a unit of credit represents 50 minutes of class work per week during an 18-week semester.

Course Numbering System

Courses numbered 99 or less are lower division; 100 to 199 are upper division; and 200 or above are graduate level.

In general, courses numbered 100 to 199 may be applied toward an advanced degree or credential upon the approval of the departmental adviser. However, the following courses may not apply on the master of arts degree: Anthropology 104; Biological Science 100; Business 100A, 103, 104, 106, 108A; Economics 101; Education 100; Geography 101; Geology 101; Government 101; Health and Safety Education 121, 154; Language Arts 100A-B; Microbiology 100A-B; Nature Study 118; Physical Education 100's 101, 102, 103, 105A-B, 121; Physical Science 100; Psychology 100; Social Science 100; Sociology 102, 104.

DEGREE REQUIREMENTS

GENERAL REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

The bachelor of arts degree is offered with majors in: Art, Biological Science, Business Education, Drama, Economics, Education (General Elementary, Kindergarten-Primary Education, or Junior High School Education), English, Geography, Government (with options in Government Service, International Relations, Pre-Law, Pre-Graduate), History, Home Economics, Industrial Arts, Journalism, Language Arts, Mathematics, Music, Physical Education, Physical Science, Psychology (with options in Counseling, Industrial, or General Psychology), Social Science, Social Studies, Social Welfare, Sociology, Spanish, Speech, Speech Therapy.

The requirements for the bachelor's degree consists in general of three parts as indicated in A, B, and C below:

A. General education, minimum..... 45 semester units

General education is nonspecialized education taken by all students regardless of their majors. The purposes are the broadening of the cultural background of the student and the strengthening of the competencies needed by him to participate effectively in a democratic society.

The objectives and the requirements of each phase of the general education program are as follows:

1. Facility in reading, writing, speaking and listening to be fulfilled by courses in

ORAL AND WRITTEN EXPRESSION..... 6 units minimum

The above must include at least one course, of two or three units, in written composition and a two or three unit course in fundamentals of public speaking.

2. An understanding of the cultural background of our society, the principles and forms of American democracy, and the political, social, and economic structures of other societies in the world. These requirements are to be fulfilled through the following distribution in the:

SOCIAL SCIENCES (*a*, *b*, and *c* below)..... 9 units minimum

- a. A course or courses involving American history and government, the Constitution, American institutions and ideals, and California state and local government.
- b. A course or courses involving the study of world history and cultures or European history and culture.
- c. A course or courses involving the study of man in his environment (such as courses in cultural anthropology, cultural geography, economics, sociology, and similar fields).

3. An understanding, appreciation and knowledge of living things and the life processes and of the nonliving material world. These objectives are to be fulfilled by courses in:
 NATURAL SCIENCE (to include at least a two or three unit course in each of the following courses) 9 units minimum
- An appropriate course or courses in the biological sciences.
 - An appropriate course or courses in the physical sciences.
4. A study of the behavior of man to be fulfilled by a course or courses in:
 GENERAL PSYCHOLOGY 2 units minimum
5. An understanding of the values and value systems of man to be fulfilled by appropriate courses in either Literature, philosophy or both fields..... 6 units minimum
6. Experiences in the arts to be fulfilled by courses in the:
 FINE OR PRACTICAL ARTS 3 units minimum
7. Participation in a program of health instruction and physical education to be fulfilled by courses in:
 HEALTH AND PHYSICAL EDUCATION (*a* and *b* below) 4 units minimum
- Health or hygiene (2 units)
 The above must include instruction in fire prevention, narcotics, alcohol, drugs, and safety.
 - Physical education activities (2 units)
8. ADDITIONAL COURSES IN GENERAL EDUCATION 6 units minimum
 Additional courses in general education in one or more of the above areas or in other fields of general education which are of particular interest to the student and which may be distributed among courses in family life education, mathematics, and foreign language.
- B. Major, a minimum of 30 semester units
 The major will be defined by the division in which the student undertakes his program. The number of units in a major will differ according to the objective of the student. See the lists of majors for specific requirements.
- C. Additional units
 The total units required for the bachelor of arts degree is 124. Electives may be selected by student to fulfill the total number of units required beyond the general education requirements and the requirements for the major.

GENERAL REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

The bachelor of science degree is offered with majors in: Audiology, Biological Science (Medical Laboratory Technician), Business (with options in Accounting, Business-Arts, Finance, Industrial Management, Labor Relations and Personnel, Marketing, Trade, and Printing Management, Secretarial, Small Business Management, Special Business), Engineering, Nursing, Police Science and Administration, Recreation Education.

Each student of the Los Angeles State College, to qualify for graduation, shall complete a pattern of courses to include the following:

- A. General education, minimum 45 semester units
 The general education requirements for the bachelor of science degree are the same as for the bachelor of arts degree. See page 52.
- B. Major, minimum 36 semester units
 The total number of units in each major differs.
- C. Additional units to complete the total number required for the degree may be selected by the student to fulfill the total number of units required beyond the general education requirements and the number of units in the major.
- D. Total number of units required for the bachelor of science degree 128 to 132 semester units

GENERAL REQUIREMENTS FOR THE BACHELOR OF VOCATIONAL EDUCATION DEGREE

1. Each state college is authorized to grant the degree of bachelor of vocational education to qualified candidates who satisfactorily meet the requirements.
2. The purpose of this degree is to promote the professional advancement of the vocational teachers through the procedure established by the Education Code.
3. Eligible candidates for this degree shall be limited to those vocational teachers recommended by the California State Board of Examiners for Vocational Teachers and who meet the requirements established in the Education Code of the State of California.
4. Each applicant for the degree shall have completed, with a grade-point average of 1.0 (grade "C" on a five-point scale) or better, a course of 124 semester units, including the credits recommended by the board of examiners, and shall have met the general education requirements on page 52.
5. The credits recommended by the Board of Examiners for Vocational Teachers for the applicant's occupational, managerial and supervisory experience shall be applied toward a major in vocational arts.

Additional details regarding this program may be obtained from the Chairman of the Division of Technical Sciences, Los Angeles State College.

GRADUATION REQUIREMENTS

In addition to the specific academic requirements described on the preceding pages students must complete satisfactorily all the general requirements specified below for the curricula elected.

Application for Graduation

An application, provided by the Registrar's Office, should be filed early in the semester preceding the semester in which the applicant expects to complete the work for a degree. Consult calendar dates for deadline.

Scholarship Requirements

In order to qualify for the bachelor's degree the student must maintain a 1.0 grade point average (average grade of "C" on a five point scale) or better on all college work, on all work at Los Angeles State College, and in all work in the major field.

To graduate with "honors" a student must have completed 56 units of course work at Los Angeles State College of Applied Arts and Sciences with a grade point average of 2.40 or better. Graduation with "high honors" requires 56 units of course work with a grade point average of 2.60 or better.

Upper Division Requirement

The student must complete a minimum of 40 units of upper division work towards the baccalaureate degree. Upper division courses taken before the student has earned 54 units of college work may not apply on this requirement.

Residence Requirement

The last 24 units used to satisfy degree requirements must be completed at Los Angeles State College. In addition, the student must have been in attendance as a matriculated student for a minimum of two semesters of 18 weeks each. For this latter part of the requirement Los Angeles State College summer sessions count on a week by week basis. Extension courses at Los Angeles State College may not apply on the residence requirement.

U. S. History and Constitution Requirement

The requirements set by California law of (1) American history, (2) United States Constitution, and (3) California state and local government, must be met by all graduates. This includes demonstrating competence in the Constitution of the United States, in American history, including the study of American institutions and ideals, and the principles of state and local government established under the Constitution of this State. The requirements may be met by optional examinations, or by completing successfully one course from each of the following groups:

1. American History: History 172, 173, 174, 175, 177, 178, 179, 181.
2. United States Constitution: Government 101, 105, 157, History 179.
3. California State and Local Government: Government 101, 103, 104.

The requirement on the United States Constitution must be met by all students seeking teaching credentials.

Transfer students who have already met these requirements shall not be required to take further courses or examinations therein.

The optional examinations for both American history and United States Constitution will be held on November 17, 1955, and March 23, 1956. Information on the above requirements may be obtained from the Office of Admissions or from the Social Sciences Division, American Institutions Committee.

Students will be eligible to take the optional examinations under the following conditions:

1. All graduate students at Los Angeles State College will be eligible, provided they meet requirements (3) below.
2. Undergraduates will be eligible to qualify by examination only when their program *upon admission* does not allow sufficient units to complete the necessary courses without undue hardship.
3. Students must be currently enrolled in Los Angeles State College.
4. Students must not have already failed this optional examination.
5. Application must be made to the American Institutions Committee at least three weeks prior to date of examination.

Exceptions to the above must be approved by the Committee on American Institutions.

GENERAL REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

The master of arts degree is offered with fields of concentration in: Art, Biological Science, Commerce, Economics, Elementary School Administration, Elementary School Curriculum and Supervision, Elementary School Teaching, English, Geography, Government, Guidance, Health Education, History, Language Arts, Music, Physical Education, Psychology, Secondary School Administration, Secondary School Curriculum and Supervision, Secondary School Teaching, Social Science, Sociology, Special Education, Speech.

The purpose of the master of arts degree is to improve the candidate's professional competence in educational service and to develop his ability for continued self-directed study in the field of his professional service. The degree is based upon a broad general education and an emphasis on particular fields of concentration in undergraduate work.

Minimum Requirements for the Master of Arts Degree

1. An appropriate baccalaureate degree from an approved institution.
2. A grade point average of 2.0 in the field of concentration, in the courses submitted to fulfill requirements for the M.A. degree, and separately in all work beyond the bachelor's degree taken at Los Angeles State College.
3. Completion at Los Angeles State College of the last 24 units used to satisfy degree requirements.
4. Thirty semester hours of approved courses taken within seven years immediately preceding the date when all the requirements for the degree are completed. (Time may be extended for students who pass a comprehensive examination.)
5. The holding of a valid regular day school credential for California, other than an emergency or a provisional credential.

NOTE: The above requirement (No. 5) may be waived for (a) students who, because of citizenship in a foreign country, are ineligible for a California credential, but who are teachers and are preparing to teach in a foreign country; (b) teachers with a minimum of one year of teaching experience who hold a license to teach in

another state; (c) applicants preparing to teach in institutions not requiring teaching credentials (provided that a minimum of 12 semester units in professional education be included in the graduate year).

6. A minimum of 10 units in strictly graduate ("200") courses.

7. The completion of a field of concentration of 15 units, including not less than 6 units in "200" courses, as prescribed by a division of the college authorized to offer a graduate program.

8. The completion of 6 units outside the field of concentration. (Directed teaching will not satisfy this requirement.)

9. Satisfactory performance on a comprehensive examination and/or the completion of a project in the field of concentration or a teaching project as prescribed by each division of the college offering graduate work toward the degree. Abstracts of projects must be filed in the Graduate Studies Office.

10. A maximum of 6 units of credit for (a) acceptable work done at other colleges, (b) extension, (c) student teaching, or any combination of the above.

11. Conformance with specific requirements for the degree program in the chosen field of concentration.

Candidacy

1. A graduate student may be admitted to formal candidacy for the master of arts degree after he has completed 6 units of graduate work in residence, including at least one "200" course, and has received the approval of the appropriate division.

2. The candidate must have maintained a grade point average of 1.75 on his undergraduate work or have completed in residence 12 units of his proposed degree program, at least 6 of which are in the field of concentration, with an average of 2.0 on all graduate work in residence.

3. Each candidate will be assigned an adviser by the chairman of the division in which he elects to complete his field of concentration.

4. The candidate and the assigned adviser will work out a program for the satisfaction of the requirements for the degree. This program, signed by the adviser, will be submitted to the graduate study committee on a prescribed form.

5. Candidates will be approved or rejected by the graduate study committee on the basis of their academic record as indicated by an official transcript, personal qualifications, health, and professional promise. Such screening devices as required will be used by the graduate study committee.

NOTE: The candidate should give particular attention to the list of courses which are not acceptable for graduate credit. See page 51. See Graduate Bulletin for details and procedures concerning work toward the master's degree.

ANTHROPOLOGY

(In the Division of Social Sciences)

Staff: Luhrs, Byron, Ford, Nishi.

The courses in anthropology are designed for students interested in the range of social behavior found in human cultures.

COURSES OF INSTRUCTION

(No major is offered)

Prerequisites: General anthropology or consent of instructor.

101 Culture Areas of the World (3) Fall

Ethnology: The nature of culture-historical studies; survey of principal culture types and their distribution in the world; discussion of ethnological problems.

104 Cultural Anthropology (3) Fall, Spring

Studies in the development of human traditions. The nature of culture, and its relationship to human physical types, to environment, and to individual differences. Comparative analysis of family structure and kinship systems, economic, political and religious concepts and organizations. The ways of cultural change. Not open to students who have completed an introductory course in cultural anthropology.

105 Culture and Personality (3) Fall, Spring

The relationship between individual personality development and the cultural milieu. Recent work in the coordination of psychodynamics and the social sciences. Special attention will be given to studies of child training and culture patterns in several non-Western cultures.

106 Indians of North America (3) Spring

Problems and methods in investigating the history of North American peoples before European discovery. Prehistoric culture areas; their relationship with historic Indians.

107 Indians of California and the Southwest (3) Fall, Spring

Origins, modes of subsistence, social organization, and geographic and historical relationships of the Indians of North America. Consideration of the results of European conquest and of the present condition of the several tribes.

108 Middle America (3) Spring

The Indian civilizations of Mexico, Central America, and the West Indies and the folk cultures of the peoples who currently occupy these areas.

138 Peoples of Africa (3) Fall (Offered 1955-56)

The aboriginal cultures and contemporary conditions of Negroid Africa. Prehistoric times, relations with Europe and Asia, and the effects of colonization upon the native population.

147 Peoples of the Pacific (3) Spring

The aboriginal civilizations of Malaysia and the Pacific islands before and during modern European contact.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

ART

(In the Division of Fine Arts)

Staff: Manion (Department Head), Cornish, Daywalt, Hoffman, Kasza, Little, Roysher, Sudlow, Tramel, Wirth

BACHELOR'S DEGREE CURRICULA

Major in Art

See page 52 for additional graduation requirements for the B.A. degree.

1. **Applied Arts.** Opportunity is provided for commercial artists, commercial designers, industrial designers, illustrators, craftsmen in the various art fields, and others who wish to qualify themselves for professional competence in art. This plan may be combined with the teaching major to provide both professional competence and the teaching credential.

2. **Fine Arts.** A complete program in design, painting and illustrating is provided which will prepare the student for professional work in these fields. This plan and/or the other plans may be combined so that the student achieves technical competence in his field and also has a teaching credential.

3. **General Cultural Pursuits.** The Art Department has many offerings which will provide both the art majors and other majors of the college with the cultural subjects which distinguish a liberal arts college. It is possible to major in this field by concentrating on such subjects as Art History.

Lower Division

Basic Courses:

Survey of Art History.....	2 units
Perspective <i>or</i> Rendering.....	2 units
Crafts <i>or</i> Ceramics.....	2 units
Art Structure <i>or</i> Design.....	2 units
Lettering.....	2 units
	10 units

Upper Division

Select from the following.....	6 units
Art 101AB—Art in Modern Life (3)	
Art 111AB—Art History (3)	
Art 112AB—Art History (3)	
Select from the following.....	8 units
Art 104AB—Advanced Painting (3)	
Art 134AB—Landscape Painting (3)	
Art 164AB—Life Composition (2)	

Select from the following.....	2 units
Art 102AB—Introduction to Craft Materials (2)	
Art 114AB—Furniture Design and Construction (3)	
Art 117AB—Ceramics (2)	
Art 120—Crafts for Elementary School (2)	
Art 122AB—Advanced Ceramics (2)	
Art 127AB—Advanced Crafts (3)	
Art 147AB—Textiles and Weaving (2)	
Art 176AB—Metalsmithing (2)	
Art 177AB—Metalsmithing (2)	
Art 178AB—Metalsmithing (2)	
Select from the following.....	6 units
Art 103AB—Three-dimensional Design (2)	
Art 116—Theatre Design (2)	
Art 133AB—Advertising Design (2)	
Art 143AB—Interior Design (2)	
Art 175—Costume Design (2)	
Art 179AB—Art Display and Portfolio (2)	
Art 190A—Industrial Graphics (2)	
Electives in Art.....	8 units
	<hr/>
	30 units

Special Secondary Teaching Major for B.A. Degree

See also graduation requirements on page 52, and professional education requirements on page 118.

A complete schedule of courses is offered giving art teachers the necessary background to equip them to teach the various phases of art. Besides the general secondary credential, which is offered with a major in the art field, art majors may obtain a special secondary credential in art which qualifies them for art teaching and art supervision at all levels.

Lower Division

Basic Courses:

Survey of Art History.....	2 units
Perspective <i>or</i> Rendering.....	2 units
Crafts <i>or</i> Ceramics.....	2 units
Art Structure <i>or</i> Design.....	2 units
Lettering.....	2 units
	<hr/>
	10 units

Upper Division

Art 100—Art for Elementary School.....	2 units
Select from the following.....	6 units
Art 101AB—Art in Modern Life (3)	
Art 111AB—Art History (3)	
Art 112AB—Art History (3)	
Select from the following.....	8 units
Art 104AB—Advanced Painting (3)	
Art 134AB—Landscape Painting (3)	
Art 164AB—Life Composition (2)	
Select from the following.....	2 units
Art 102AB—Introduction to Craft Materials (2)	
Art 114AB—Furniture Design and Construction (3)	
Art 117AB—Ceramics (2)	

Upper Division—Continued

Art 120—Crafts for Elementary School (2)

Art 122AB—Advanced Ceramics (2)

Art 127AB—Advanced Crafts (3)

Art 147AB—Textiles and Weaving (2)

Art 176AB—Metalsmithing (2)

Art 177AB—Metalsmithing (2)

Art 178AB—Metalsmithing (2)

Select from the following

Art 103AB—Three-dimensional Design (2)

Art 116—Theatre Design (2)

Art 133AB—Advertising Design (2)

Art 143AB—Interior Design (2)

Art 175—Costume Design (2)

Art 179AB—Art Display and Portfolio (2)

Art 190A—Industrial Graphics (2)

Electives in Art

6 units

6 units

30 units

General Secondary Teaching Major

The general secondary teaching major in art is the same as the major for the special secondary credential. See also general education requirements on page 52, and the professional education requirements on page 116. A teaching minor in a different teaching field and a graduate year including additional professional education are required for the general secondary credential.

General Secondary Teaching Minor**Lower Division**

Lower division program is the same as that for the major.

Upper Division

Art 100—Art for Elementary School 2 units

Select from the following 2 units

Art 102AB—Introduction to Craft Materials (2)

Art 120—Crafts for Elementary School (2)

Art 103AB—Three-dimensional Design 2 units

Select from the following 4 units

Art 104AB—Advanced Painting (3)

Art 134AB—Landscape Painting (3)

Art 164AB—Life Composition (2)

10 units

**FIELD OF CONCENTRATION FOR THE
MASTER OF ARTS DEGREE**

The purpose of the master of arts degree with an art major is to improve the candidate's professional competence in educational service and to develop his ability for continued self-directed study in the field of his professional service. See page 56 for the total requirements for the master of arts degree.

1. Prerequisites
 - a. Graduate standing.
 - b. 24 units of art or consent of Fine Arts Division.
2. Area of specialization
 - a. Seminar in area 3 units
 - b. Graduate and undergraduate courses in major selected with approval of graduate adviser 9 units
 - c. Art 299—Graduate Project 3 units
3. Outside the field of art 6 units
4. Electives 9 units
5. Additional graduate courses to fill out "200" requirement:
 - Art 204—Seminar in Painting (3)
 - Art 227—Industrial Application of Crafts (3)
 - Art 231—Seminar in Art History (3)
 - Art 233—Seminar in Design (3)

COURSES OF INSTRUCTION

100 Art for the Elementary School (2) Fall, Spring

Basic skills and understandings that enable the primary and elementary teacher to provide art experiences to children. Teaching confidence and skill provided by working with finger painting, water color painting, calcimine painting, map making, manuscript writing, mural painting, figure drawing, chalk drawing and work in other media. Laboratory and accompanying lectures.

101A-B Art in Modern Life (3-3) AB—Fall, Spring

The arts in relationship to contemporary living. An appreciation and understanding of what the arts are contributing to the environment, their influences upon personalities and their part in our democratic culture.

102A-B Introduction to Craft Materials (2-2) AB—Fall, Spring

Prerequisite: Design or equivalent. Laboratory and accompanying lectures to provide experiences in designing and constructing objects of clay, paper, wire, wood, metal, fabrics, paints, and plastics.

103A-B Three-dimensional Design (2-2) AB—Fall, Spring

Prerequisite: Design or equivalent. Individual and group experiences in three-dimensional expression. In the first semester emphasis upon designing and making of objects which demonstrate the use of fine design in the immediate environment of each student. In the second semester emphasis upon designing for industry.

104A-B Advanced Painting (3-3) AB—Fall, Spring

Prerequisites: Two semesters each in painting and design or equivalent. Emphasizes individual growth, planning, and fine craftsmanship. Related research in painting laboratory. Field trips as needed.

110 Art Appreciation for Teachers (2) Fall, Spring

Evaluation of the cultural expressions of this community in terms of the art expressions of other areas and times. Extensive use made of slides, colored reproductions, field trips to local museums, contemporary buildings and world famous private art collections. Field trips to be arranged

111A-B Art History (3-3) A—Fall; B—Spring

First semester deals with the art of the ancient world from the earliest beginnings to the time of Christ. Second semester deals with Roman, Early Christian, Medieval, and Renaissance art.

112A-B Art History (3-3) A—Fall, B—Spring

First semester deals with Baroque art in Europe during the seventeenth and eighteenth centuries. Second semester discusses art during the nineteenth century in Europe and America and its development into the art of modern times.

113A Introduction to Industrial Arts Design (2) Fall, Spring

Prerequisite: Design or equivalent. Basic skills and appreciation in design leading to the development of worthwhile student projects in industrial arts. Lectures, field trips and laboratory. Students will design and originate industrial arts projects which will be carried to conclusion during the laboratory period. Work with the materials of industry.

114 Furniture Design and Construction (3) Fall, Spring

Appreciation of good functional furniture design and experiences in designing and constructing furniture. Origination of good methods of teaching furniture design and construction. Lectures, field trips and study of outstanding examples of good furniture design. Recommended for industrial arts teachers.

116 Theater Design (2) Spring

Prerequisites: Two semesters of design. Visual relationships involved in both play and dance production. Designing and making models, constructing and painting stage scenery.

117A-B Ceramics (2-2) AB—Fall, Spring

Prerequisite: One semester of design. Development of the basic skills necessary to the planning, building and firing of pottery. Students design, build, fire and glaze pottery.

120 Crafts for Elementary School (2) Fall, Spring

Basic skills and understandings that enable the primary and elementary teacher to provide crafts experiences to children. Evaluation of educational value of crafts. Teaching skill and confidence gained by working with clay, leather, bookbinding, weaving, block printing, paper enrichment and other craft materials and processes. Laboratory with accompanying lectures.

122A-B Advanced Ceramics (2-2) AB—Fall, Spring

Prerequisites: Art 102, Art 117A-B, Art 120, or consent of instructor. Throwing, plaster casting, pouring, glazing, and stacking the kiln for bisque and glaze firing. Lectures and discussions on clay bodies, glaze composition, methods of decoration and the design of ceramic forms.

126 Construction for Elementary Schools (2) Fall, Spring

Experiences that meet the needs and interests of children. Laboratory and accompanying lectures in which construction projects are developed. Experience in making materials used in dramatic play to enrich the social studies. Work with wood and other materials. Development of skills with hand tools used in wood construction.

127A-B Crafts (Advanced) (3-3) Year course

Prerequisites: Two semesters in design. Provides the student with a high degree of technical skill in the execution of projects using craft materials and original designs. The completing of the designs into finished craft products of professional quality. Craft materials such as leather, wood, various papers, metals, and other media are used according to the demands of the individual project.

130 Crafts in the Junior High School (2) Fall, Spring

Basic skills and understandings which enable the junior high school teacher to provide worthwhile craft experiences in keeping with the growth and development characteristics of the junior high school student. Work in clay, leather, bookbinding, weaving, block printing, paper enrichment and other craft materials and processes. Laboratory with accompanying lectures.

131A-B Oriental Art (3-3) Year Course

The ancient graphic and plastic arts of China, Japan, India and Persia. Evaluation of their contribution to the art expression of the present day.

132A-B Design for Industry (2-2) AB—Fall, Spring

Prerequisite: One semester in design. Materials, tools, processes and functional design used in making industrial products.

133A-B Advertising Design (2-2) AB—Fall, Spring

Prerequisites: Two semesters in design, one semester in drawing. The elements of visual expression and design related to the technical, psychological and social aspects of advertising.

134A-B Landscape Painting (3-3) AB—Fall, Spring

Prerequisite: Drawing or one semester of representative drawing. Development of water color technique through interpreting landscape scenes.

140A-B Clay Modeling (2-2) AB—Fall, Spring

Experiences in using clay as an expressive medium. Modeling small objects, slab and coil methods of pottery making, methods of decoration, including slip, glazes and textural effects.

141A-B History of Costume and Furniture (2-2) Year course

Costume and furniture from earliest times to the present day in relation to the function, technological and social aspects of each period.

143A-B Interior Design (2-2) A—Fall; B—Spring

Prerequisites: Two semesters of design, one semester of drawing. The elements of visual expression and design related to contemporary concepts of interior work and living space needs.

144A-B Still Life Painting (2) AB—Fall, Spring

Prerequisites: Two semesters in design. Development of technique of rendering through interpreting still life. First semester: water color. Second semester: oil.

147A-B Textiles and Weaving (2-2) A—Spring; B—Fall

Prerequisite: One semester of design or consent of instructor. Loom and frame weaving, reading and writing of pattern drafts, design of printed fabrics including the use of silk screens, linoleum blockprints, stencils and dyes.

150 Art Experiences for Exceptional Children (2) Fall, Spring

Art experiences in painting, crafts, and other media for the exceptional child. Special emphasis on those experiences which meet the needs of retarded or handicapped children. Work with paint, clay, leather, blockprinting, murals, and bookbinding. Laboratory with accompanying lectures.

162 Arts and Crafts in Recreation (2) Fall, Spring

A working knowledge of basic crafts and familiarity with others. Acquaints students with the tools, materials, and program possibilities in arts and crafts for recreation.

164A-B Life Composition (2-2) AB—Fall, Spring

Prerequisite: One semester of drawing or design. Encouragement for the student to grow in self-expression. The student will use the human figure in composition. Life compositions will utilize various media and techniques.

175 Costume Design (2) Fall

No prerequisite. Teaches the skills necessary to design costumes for stage, street, and other occasions. The projects will be designed by the individual students and carried out in a manner used by industry. Designing on paper and with materials through the use of half-size and full-size mannequins. Emphasis is upon functional design as applied to industrial materials.

176A-B Metalsmithing—Forging (2) AB—Fall, Spring

Beginning and advanced techniques of forging metal; forming of flatware, decorative sections, handles, and special applications.

177A-B Metalsmithing—Jewelry (2-2) AB—Fall, Spring

Prerequisite: Art 176A-B, or approval of instructor. Manufacture and design of jewelry; basic bending, forming and soldering techniques; stone setting.

178A-B Metalsmithing—Raising (2-2) AB—Fall, Spring

Prerequisite: Art 176A-B, or consent of instructor. Beginning and advanced hollowware techniques; sheet metal and stretch processes; spouts, handles, bodies and box forms; hinging.

179A-B Art Display and Portfolio (2-2) A—Spring; B—Fall

Prerequisite: Consent of instructor. Preparation and organization of the student's art work in portfolio form for presentation to prospective employer. Opportunity for broader experience in the techniques, methods, and media of display. Laboratory, field trips, and accompanying lectures. Of especial value to art majors who wish to enter the teaching field.

190A Industrial Graphics (2) Spring

Prerequisite: Art structure, drawing or equivalent. Basic technical illustration methods for the presentation of service instructions, production methods, and sales promotion visual material. Emphasis upon mechanical drawing and interpretation of three-dimensional exploded drawings in pencil, pen and ink, and Ben Day shading. Actual production of handbooks, assembly job folders, and brochures. Combined laboratory and lectures.

191A Catalog Illustration (2) Fall

Prerequisite: One semester of design or one semester of drawing or the consent of instructor. Methods of illustrating catalogs for the visual identification of parts and assemblies. Techniques for drawings as used in air service and manufacturing manuals and catalogs. Drawing, rendering, and lay-out for industrial catalogs. Laboratory with accompanying lectures.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study plan. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

204 Seminar in Painting (3) Spring

Prerequisites: Graduate standing, 8 units of painting and drawing or consent of instructor.

227 Industrial Application of Crafts (3) Fall

Prerequisites: Two semesters in design, one in crafts. The student must demonstrate the ability to carry on independent work of graduate quality. Students create and execute original designs in craft materials. Professional competence is achieved in designing and constructing articles in leather, wood, various papers, metals and other media according to the demands of the individual project.

231 History of Art Seminar (3) Spring

Prerequisites: Eight semester hours of art appreciation and/or art history; ability to work independently; consent of instructor. Advanced studies in the history of art.

233 Seminar in Design (3) Fall

Prerequisites: Six semester hours in the field of design; consent of instructor. Student must show graduate competence in design projects and research.

299 Graduate Project (3) Fall, Spring

Prerequisites: Eight units in the field of design, art history, drawing, crafts, or other field of the student's major interest, and consent of the adviser. Student-originated and adviser-approved project in art or art education. The student will present a project showing his ability to organize and master an area of art skills or information.

AUDIOLOGY—VOCATIONAL

(In the Division of Technical Sciences)

Staff: Kennedy, Douglass, Younger.

BACHELOR'S DEGREE CURRICULUM

Major in Vocational Audiology

The vocational audiology major is planned to develop an understanding of the various aspects of the field of hearing. The primary emphasis is placed upon measurement of hearing and methods and devices for compensation of hearing loss, including auditory training, speech reading, speech correction and the fitting and maintenance of hearing aids.

The audio technology option is planned to develop an understanding of hearing with special emphasis on the technical phases of equipment design and maintenance relating to all aspects of audio communication. Consideration may also be given to problems of noise measurement and abatement. (Students interested in these areas should consult with the audiology adviser.)

A total of 128 units is required for graduation with a major in vocational audiology. The major for the B.S. degree in vocational audiology may be based upon a lower division program in electronics and/or physics. Due to the varying vocational opportunities in this field, however, the major may be related to and based upon lower division concentrations in psychology, speech, life science, nursing. See page 53 for additional graduation requirements for the B.S. degree.

Lower Division

Twelve units of lower division work in one of the areas above may be accepted as part of the major with the approval of the department head.

Upper Division

Audiology 100—Audiology	3 units
Audiology 110—Audiometry	3 units
Audiology 111—Advanced Audiometry	3 units
Audiology 151—Audiometric Clinic	1-5 units
Select from the following to complete	36 units
Education 120—Speech Reading (3)	
Audiology 130—Auditory Training and Hearing Aids (3)	
Audiology 140—Hearing Aid Fitting, Adjustment and Repair (3)	
Audiology 152—Audiology Clinic (1-5)	
Audiology 199—Special Studies (1-5)	
Audiology 198—Field Assignment and Reports (1-8)	
Speech 131—American Phonetics (3)	
Speech 134—Introduction to Speech Therapy (3)	

COURSES OF INSTRUCTION

99 Audiology Therapy (1) Fall, Spring

Prerequisite: Consent of instructor. Practical individualized assistance for students who have hearing difficulties. The work is designed for students who may or may not use hearing aids but will benefit from speech reading and/or auditory training.

100 Audiology (3) Fall, Spring

Designed to develop a concept of hearing and understanding of the problems of the aural deviate. Included will be the basic principles of sound, the physiology of the ear, and the concepts of normal language development. Problems of noise and audio technology will be included.

110 Audiometry (3) Fall, Spring

Prerequisite: Audiology 100 or consent of instructor. Designed to meet the requirements of the school audiometrist certificate. Instruction and practice in the administration of hearing tests with major emphasis on the use of the frequency audiometer, the making of audiograms and reports. Consideration of California state laws and procedures relating to the identification of the aural deviate and to the establishment of clinics.

111 Advanced Audiometry (3) Fall, Spring

Prerequisite: Audiology 100 and Audiology 110 or consent of instructor. Instruction and practice will be given in advanced audiometric techniques, including bone conduction, masking, balance, malingering and recruitment tests, procedures for determining the speech threshold using spondee tests, auditory discrimination using PB lists and calculating social adequacy index from these tests. Emphasis will be placed on the theory upon which the test procedure is based.

130 Auditory Training and Hearing Aids (3) Fall

Prerequisite: Audiology 100 (may be taken concurrently). Principles and methods of training residual hearing; use of amplifying devices; demonstration and practice; preparation of materials appropriate for different groups.

140 Hearing Aid Fitting, Adjustment and Repair (3) Spring

Prerequisites: Audiology 100 and consent of instructor. A laboratory course designed to qualify a student to make the impressions for the ear molds, and to make the necessary adjustments for the proper fitting of the aid as well as minor repair of the aid.

151 Audiometric Clinic (1-5) Fall, Spring

Prerequisites: Audiology 100, Audiology 110, and Audiology 111. A situation designed to provide advanced students with practical experience in advanced audiometric procedures.

152 Audiology Clinic (1-5) Fall, Spring
 Prerequisite: Audiology 100, 120, 130. A situation designed to provide advanced students with practical experience in the use of amplifying equipment and supplemental educational therapy.

160 Electrical Circuits (4) Fall, Spring (See Engineering 100)

163 Basic Electronics (3) Fall (See Engineering 107)

166 Electric Communication (3) Spring (See Engineering 131)

168 Industrial Electronics (3) Spring (See Engineering 135)

198 Field Assignment and Reports (1-2) Fall, Spring
 Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring
 Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

200 Seminar in Audiology (3)
 Prerequisites: Audiology 100 and consent of instructor. A course designed for advanced students in audiology and special education majors in hearing. Emphasis will be placed on concepts of language development and communication. Consideration will be given to the problems of the aural deviate and those who must depend on their hearing, as well as factors which affect audibility. Recent developments in all aspects of audiology will be considered.

BIOLOGICAL SCIENCES

(In the Division of Natural Sciences)

Staff: Anderson (Division Chairman), Griesel, Kazan, Lockley, Reardon, Ros-
Welsh. Part time: Highby, Lyon, Rothrock, Senn, Woodhouse.

BACHELOR'S DEGREE CURRICULA

Major in Biological Science

See page 52 for additional graduation requirements for the B.A. degree.

The courses listed below are selected to provide a broad training in the biological sciences for nonteaching majors. To attain specific objectives such as (a) preparation for professional study in medicine, dentistry or veterinary science; (b) graduate study in botany, microbiology (bacteriology) or zoology; (c) employment in certain state or federal agencies or in private industry, satisfactory course programs deviating somewhat from the list outlined below may be selected with the aid of the adviser.

Lower Division

General botany and zoology	8-10 units
General chemistry	4-10 units
Microbiology	4-5 units

(Courses recommended but not required include physiology, organic chemistry and physics.)

Upper Division

Select from upper division botany courses	4 units
Select from upper division zoology courses (other than Zoology 110)	4 units
Zoology 110—Genetics	2 units
Botany, conservation, microbiology, nature study and zoology courses selected with the approval of the adviser in order to achieve the desired educational objective	12 units
(Biological Science 100, Botany 111 or Nature Study 118 may not be used. Maximum credit allowed in the Nature Study 130 series is 3 units.)	
Botany, Microbiology or Zoology 190AB—Seminar	2 units

Major in Biological Science

(Laboratory Technicians)

See page 53 for additional graduation requirements for the B.S. degree. A total of 128 units is required for graduation with a major in biological sciences. The following program has been approved for training of medical laboratory technicians by the California state agencies involved in certification.

Lower Division

General microbiology <i>or</i> general bacteriology	4-5 units
General chemistry	10 units
Quantitative analysis (chemistry)	3 units
Organic chemistry	3 units
Physics	4-8 units
General zoology	4-5 units

Upper Division

Micro. 103AB—Medical Bacteriology	5 units
Micro. 105—Viruses	2 units
Micro. 121—Serology	3 units
Micro. 122—Hematology	3 units
Micro. 123—Parasitology	3 units
Micro. 125—Introduction to Pathology	2 units
Micro. 127—Medical Mycology	2 units
Chemistry 108—Biochemistry	4 units
Chemistry 111—Clinical Biochemistry	4 units
Zoology 126—Histological Methods	3 units
Micro. 190AB—Seminar	2 units

On completion of the above course of study and a six-month internship a student will be eligible to take the examination to become a registered medical technician. This will lead to employment in hospitals, public health laboratories and certain private, state and federal research laboratories.

General Secondary Teaching Major in Life Science and General Science

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required.

Lower Division

Basic courses in botany and zoology	7-10 units
Microbiology or bacteriology	3- 5 units
Basic courses in chemistry and physics	7- 8 units

Upper Division

Botany 103—Plant Classification	3 units
Nature Study 120—Nature in California	3 units
Nature Study 125—Science Materials	3 units
Zoology 107A <i>or</i> B—Mammalogy	2 units
Zoology 110—Genetics	2 units
Zoology 123A <i>or</i> B—Birds of California	2 units
Approved course in the physical science area not taken in lower division	3 units
Courses to be selected with the approval of the adviser from the fields of anatomy, botany, conservation, microbiology, physiology and zoology to balance the program	6 units

General Secondary Teaching Minor in Life Science and General Science

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required.

Basic courses selected from the following: anatomy, botany, biology, microbiology, physiology, and zoology.....	6-10 units
Basic course in chemistry, physics <i>or</i> geology.....	4-5 units
Nature Study 120—Nature in California.....	3 units
Electives to be selected with the approval of the adviser.....	2-7 units
	20 units

NOTE: Biological Science 100, Botany 111, Conservation 161, Nature Study 118, Physical Science 100, are not to be included in the above minor. At least 6 units of the minor must be in upper division courses.

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE IN BIOLOGICAL SCIENCE

See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: An acceptable major or minor in the biological sciences.
2. Area of Specialization

Biological Science 200AB—Graduate Seminar.....	2 units
Biological Science 201AB—Concepts and Theories.....	2 units
Biological Science 202—Field and Ecological Biology.....	2 units
Biological Science 203—Selected Topics in Cellular Physiology.....	2 units
Biological Science 299—Graduate Project.....	3 units
Approved courses in biological sciences or allied fields.....	4 units
3. Comprehensive oral or written examination in the field of biological sciences
4. Approved courses outside the area of biological science..... 6 units
5. Electives..... 9 units

COURSES OF INSTRUCTION

BIOLOGICAL SCIENCE

Biological Science 100 is a general education course. Remaining courses represent graduate courses for majors or minors in Biological Science and in Life Science and General Science.

100 Survey of Biological Science (3) Fall, Spring

An understanding, appreciation, and knowledge of living things and the life processes. Not open to majors or students with previous courses in general botany, biology or zoology.

200A-B Graduate Seminar (1-1) Fall, Spring

Prerequisite: Major or minor in biological science or equivalent. Graduate seminar in biological sciences. Reviews and discussions of current literature in the biological sciences to afford an acquaintance with present developments.

201A-B Biological Concepts and Theories (1-1) Fall, Spring

Prerequisite: Major or minor in biological science or equivalent. An historical tracing of man's changing relationship to and concepts of nature. Development of scientific methods will be considered together with practical and philosophical outcomes.

202 Field and Ecological Biology (2) Spring

Prerequisite: Major or minor in biological science or equivalent. A graduate course designed primarily for teachers or field naturalists. Includes field techniques, exploring, biological collecting and familiarization with ecological associations. Lecture one hour, laboratory three hours.

203 Selected Topics in Cellular Physiology (2) Fall

Prerequisite: Graduate status with major in biological science or equivalent. Physiological and cytological problems in plants and animals stressing photosynthesis, respiration, digestion, food storage, water relationships, etc., and the relation of structural features of cytoplasm to cell function. Lecture one hour; laboratory three hours.

299 Graduate Project (3) Fall, Spring**BOTANY****103 Plant Classification (3) Spring**

Prerequisite: General botany or biology. A study of the classification of flowering plants. Provides information about the local native and cultivated plants which is especially valuable to the teacher of biology and nature study. Lecture one hour; laboratory six hours.

108 Plant Ecology (3) Spring

Prerequisite: Botany 103 or equivalent. The plant in relation to its environment. Local conditions are stressed, and a major part of the work is done afield. Gives teachers and others a clear picture of the flora of the region. Lecture one hour; laboratory six hours.

109 Plant Geography (3) Fall

Prerequisite: One previous course in biological sciences. A study of the floras of the world with emphasis on the principles and problems of their development. Local flora and conditions will be stressed.

110 Plant Physiology (4) Fall

Prerequisite: General botany or equivalent. A study of the functions of plants. The acquisition of raw materials and energy, manufacture of food and other substances, water relations, respiration, and growth. Lecture two hours; laboratory six hours.

111 Economic Plants (3) Fall, Spring

A study of the economic plants of the world with particular emphasis on local conditions. A survey course important to students in business and economics, as well as in biology and education.

120 Plant Anatomy (4) Fall (Offered 1956-57)

Prerequisite: General botany. The microscopic structure of representative common plants with special consideration given to the development and differentiation of plant tissues. Lecture two hours; laboratory six hours.

190A-B Seminar (1-1) Fall, Spring

Prerequisites: Senior standing and consent of the instructor. Reviews of current literature in various fields of botany. Recommended for all seniors majoring in biological science (botany).

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

MICROBIOLOGY**100A Principles of Microbiology (3) Fall**

Prerequisite: College chemistry or consent of instructor. Nature and characteristics of bacteria, yeasts, molds and viruses and their practical importance to mankind. Not open to students who have had lower division general microbiology.

100B Microbiology Laboratory (1) Fall

A laboratory course to accompany Microbiology 100A. Laboratory three hours.

103A Medical Bacteriology (3) Fall

Prerequisite: General microbiology or Microbiology 100A-B. Bacteriology, immunology, and transmission of the infectious diseases of man and animals.

103B Medical Bacteriology Laboratory (2) Fall

Taken concurrently with Microbiology 103A. Laboratory diagnosis of bacterial diseases. Laboratory six hours.

105 Viruses (2) Spring

Prerequisite: General microbiology or Microbiology 100A-B. Consideration of the virus and rickettsial diseases of man and animals. Lecture two hours and demonstrations.

121 Serology (3) Spring

Prerequisite: Microbiology 103A-B. Fundamental principles of immunology and serology are studied and laboratory experience gained in producing antigens and antisera and in performing the important, commonly used serological tests. Lecture one hour; laboratory six hours.

122 Hematology (3) Fall

Prerequisite: General zoology or course in physiology. A study of the basic experience in making complete blood counts, hemoglobin determinations, typing and cross-matching, and other related procedures. Lecture one hour; laboratory six hours.

123 Parasitology (3) Spring

Prerequisite: General zoology or the equivalent. The study of parasitic protozoa and helminths of man with emphasis on classification and identification. Life cycles of some representative forms considered. Lecture two hours; laboratory three hours.

125 Introduction to Pathology (2) Fall

Prerequisite: General zoology or physiology and anatomy. The principles of general pathology, stressing the dependence of all disease conditions on these basic principles. Primarily for laboratory technicians but of value to pre-medical, pre-dental, pre-veterinarian and pre-pharmacy students.

127 Medical Mycology (2) Spring

Prerequisite: General microbiology or Microbiology 100A-B. An introduction to the pathogenic fungi commonly responsible for the mycotic infections of man. Lecture one hour; laboratory three hours.

190A-B Seminar (1-1) Fall, Spring

Prerequisite: Senior standing and consent of instructor. Reviews of current literature in various fields of microbiology. Required for all seniors majoring in biological science (laboratory technicians).

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

NATURE STUDY**118 Everyday Nature (3) Fall**

What the school, home and urban environments offer for science studies in all levels of education. Projects, field trips, and laboratory utilized in studying the educational value of domestic and wild plants and animals. Biological and physical principles discovered in the city expressed in seasons, weather, soil, environment and living things. Lecture two hours; laboratory three hours, field trips to be arranged.

120 Nature in California (3) Spring

Prerequisite: A course in lower division biological science or Nature Study 118. California nature and its effect on man. Scientific acquaintance with birds, mammals, native vegetation and major associations is gained by laboratory study and wide-ranging field trips through Southern California. Lecture two hours; laboratory three hours, field trips to be arranged.

125 Science Materials (3) Spring

The collection, preservation, manufacture, exhibit and use of science materials, including the maintenance of living things. Laboratory used for acquiring and observing necessary skills in handling science materials. Lecture two hours; laboratory three hours.

130 Regional Excursions (1-4) Fall, Spring

Extended field excursions during vacation periods to various regions such as deserts, mountains, seashores of the United States, Canada and Mexico for the study of the natural history of these regions. No prerequisites. Enrollment by permission of instructors only.

145 Marine and Shore Life (3) Fall

Observation and study of life along bays, shores and pools. Maintenance of small tanks of live specimens in the laboratory. Preparation and display of specimens. Lecture one hour; laboratory six hours, including Saturday.

PUBLIC HEALTH

Public Health 112 and 120 recommended electives for Biological Science and Biological Science (Laboratory Technicians) majors.

103 Biological Foundations of Sanitation (3) Fall

Principles of life sciences including bacteriology, parasitology, and entomology relevant to control of environmental sanitation.

105 Physical Principles of Sanitation (3) Spring

Techniques in general sanitation covering construction and maintenance of water facilities, filters, sewage disposal, heating, ventilation, lighting, plumbing, and housing.

107 Environmental Sanitation Control (3) Fall

Prerequisites: Public Health 103 and Public Health 105 or consent of instructor. A study of waste disposal, insect, rodent, and nuisance control, control of food and housing sanitation.

109 Principles of Sanitary Inspection (3) Spring

Prerequisite: Public Health 107 or consent of instructor. Objectives and special techniques in food sanitation covering milk, meat, markets, restaurants, and processing plants.

112 Community Control of Communicable Diseases (3) Fall

Prerequisites: Public Health 103 and Public Health 105 or consent of instructor. The epidemiology, modes of transmission, and community control of communicable diseases, including tuberculosis and the venereal infections.

115 Public Health Administration (3) Spring

Prerequisites: Public Health 103 and Public Health 105 or consent of instructor. A study of agencies dealing with sanitation. Organization of health departments, office procedures, laws and legal regulations, and public relations.

120 Sanitary Bacteriology (4) Spring

Prerequisites: General microbiology or Public Health 103 and Public Health 105 or consent of instructor. Sanitary and laboratory applications of microbiology considering particularly water-borne diseases, water testing and treatment, sewage disposal, milk testing, food testing, restaurant and air sanitation. Lecture three hours; laboratory three hours.

ZOOLOGY**105 Mammalian Embryology (4) Fall**

Prerequisite: One year of general zoology or equivalent. A survey of the development of the mammal from egg to foetus with laboratory studies of rat and pig embryos. Histogenesis and organogenesis, and physiology of the reproductive tract. Lecture two hours; laboratory six hours.

106 Zoology (4) Spring

Prerequisite: One year of general zoology or equivalent. The evolution of vertebrate structure and organ systems including chief environmental adaptations. Laboratory is limited to the comparative morphology of vertebrate types, emphasizing mammalian anatomy. Lecture two hours; laboratory six hours.

107A-B* Mammalogy (2-2) Fall, Spring

Prerequisite: General zoology or equivalent. Natural history, identification and classification of mammals together with field techniques. Emphasis is placed on the mammals of the western states. Lecture one hour; laboratory or field work three hours.

110 Genetics (2) Spring

Prerequisites: General zoology, general botany or equivalent. Principles of the genetics of animals and plants emphasizing the mechanisms of inheritance and the practical applications.

* Courses need not be taken in A-B sequence.

123A-B* Birds of California (2-2) Fall, Spring

Acquaintance with Pacific Coast and desert birds by specimens, lecture and field study. Classification, structure, habits, field recognition, and ecology will be featured. Spring section includes nesting and bird songs. Fall section contacts migration and distribution. A year of field work with birds. Lecture one hour; laboratory or field work three hours.

126 Histological Methods (3) Fall

Prerequisite: General zoology, general botany or the equivalent. Practical experience in preparing and staining various types of tissue sections. Lecture one hour; laboratory six hours.

128 Arthropod Vectors (3) Spring

Prerequisite: General zoology or the equivalent. The role of arthropods, especially the insect, as transmitter of human animal diseases. Stresses classification, structure, life histories and practical aspect. Lecture two hours; laboratory three hours.

129 Marine Zoology (3) Fall

Prerequisite: General zoology or equivalent. A study of the sea as a life environment. Field and laboratory familiarization with local marine animals and their habitats. Lecture two hours; laboratory two hours plus field trips.

130 Principles of Animal Ecology (3) Fall

Prerequisites: General zoology or equivalent. A consideration of living animals in relation to their physical, chemical and biological environments. Selected topics in the field of modern ecology. Lecture three hours; and field trips as arranged.

131 Cold-blooded Vertebrates (3) Spring

Prerequisite: General zoology or equivalent. The biology, classification and ecology of California fishes, amphibians and reptiles. Lecture two hours; laboratory or field trips three hours.

190A-B Seminar (1-1) Fall, Spring

Prerequisite: Senior standing or consent of instructor. Reviews of current literature and concepts in the various fields of zoology. Recommended for all seniors in the biological sciences (zoology).

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

* Courses need not be taken in A-B sequence.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

Bachelor's Degree in Business Administration

See page 11 for additional registration requirements for B.S. degree.

GENERAL BUSINESS ADMINISTRATION AREA

In order to secure departmental credit, and basic training in the field of accounting, business and financial management, students in the field of accounting, business and financial management should take the following courses:

- 1. Lower Division Courses (12 credits minimum):
- Principles of Accounting (1) - 3 credits
- Principles of Business (1) - 3 credits
- Business Law (1) - 3 credits
- Business Administration (1) - 3 credits
- Business Statistics (1) - 3 credits
- Business Economics (1) - 3 credits
- Business English (1) - 3 credits
- Business Mathematics (1) - 3 credits

Upper Division Core Requirements

- 2. To be completed in the junior year:
- Business 101 - Principles of Accounting (3) - 3 credits
- Business 102 - Principles of Business (3) - 3 credits
- Business 103 - Business Law (3) - 3 credits
- Business 104 - Business Administration (3) - 3 credits
- Business 105 - Business Statistics (3) - 3 credits
- Business 106 - Business Economics (3) - 3 credits
- Business 107 - Business English (3) - 3 credits
- Business 108 - Business Mathematics (3) - 3 credits

Business 109 - Business Cycle and Forecasting (3) - 3 credits

Business 110 - Economics of the Business Firm (3) - 3 credits

Course 110 - Business Journal Course in Business. This course is required for all students in the Business Administration program. It is a journal course in which students are required to keep a journal of their business activities and to write a report on their business activities. The journal should be kept throughout the semester and the report should be submitted at the end of the semester. The journal should be kept in a notebook or a folder and should be kept in a safe place. The journal should be kept in a notebook or a folder and should be kept in a safe place. The journal should be kept in a notebook or a folder and should be kept in a safe place.

BUSINESS ADMINISTRATION

(In the Division of Business and Economics)

Staff: Simpson (Division Chairman); Blackledge, Borders, Bright, Chrysler, Dance, Francis, Gustafson, Hansen, Hill, Hoyt, Luther, Mathy, Murphy, Norby, Raun, Voris. Part-time: Allen, Andersen, Armstrong, Collier, Green, Hathcock, Lewis, Mullin, Norrborn, Quilliam, Rubin, Smith, Tipton, and Tuohino.

Baccalaureate Majors in Business

See page 53 for additional graduation requirements for B.S. degree.

I. GENERAL BUSINESS ADMINISTRATION AREAS

In order to secure background, perspective and basic training, all majors in the fields of accounting, business-arts, executive secretarial, finance, administrative, industrial and small business management, labor relations, marketing and trade, and special business take a common core of lower and upper division courses.

Lower Division Pre-major Requirements †

Principles of Accounting.....	6 units
Principles of Economics.....	3 units
Business Law (Contracts and Sales).....	3 units
Mathematics of Finance ‡	3 units
(Economic Geography, and a second semester of Principles of Economics are recommended.)	

Upper Division Core Requirements

- a. To be completed in the junior year:
 - Business 100B—Managerial Accounting (3) *or*
 - Business 102 §—Intermediate Accounting (4)
 - Business 106—Production Management (3)
 - Business 109—Applied Business Statistics (4)
 - Economics 103—Money, Credit and Banking (3)
- b. To be completed in the junior or senior year:
 - Business 103—Business Finance (3)
 - Business 104—Principles of Marketing (3)
 - Business 108B—Business Law (3)
 - Business 131—Business Cycles and Forecasting (3)
 - Economics 110—Economics of the Business Firm (3)

† Credit for Lower Division Terminal Courses in Business: Unit credit for course work carrying a business number taken in lower division will be granted toward any major foundation in business under the following conditions:

1. A maximum of 18 units (including two semesters of accounting and 3 units of business law in the lower division requirements) will be allowed, with the approval of the instructor in that field, if a grade of "C" or higher was received.
2. In no case will more than 6 units or two semesters of course credit be allowed in any one field (i.e., accounting, finance, management, marketing or industrial relations.)
3. Unit credit so secured in no way reduces the number of upper division units to be taken in the Division of Business and Economics.

‡ This course should be taken in the Mathematics Department. If taken in some other department, Business 191 should be taken in the upper division.

§ Accounting and Finance majors take Business 102, Intermediate Accounting.

c. All business majors are required to take a proficiency test in the use of business machines not later than the end of the second semester in residence. This requirement can be met by taking Business 112 (Business Machines), or by passing the machine-skill test given in Business 109 (Applied Business Statistics), or by passing an examination after the skill has been self-acquired in the laboratory during free hours.

Option 1—Accounting Major

Develops the technical and professional competency necessary for the prospective accountant, public accountant, or certified public accountant in business or government, or for one who intends to become a teacher of accounting.

Advisers: Francis, S. Hansen, Murphy, Raun.

Core requirements (to include a "C" grade or better in Business 102). See page 82	29 units
Business 120—Advanced Accounting	4 units
Business 121A—Federal Tax Accounting	3 units
Business 122—Industrial and Cost Accounting	4 units
Business 124—Auditing	4 units

Select one course from the following:
 Business 121B—Federal Tax Accounting (3)
 Business 123—Specialized Cost Accounting (3)
 Business 125—Corporation Accounting (2)

Option 2—Business-Arts Major

To meet the needs of firms which desire to have business graduates with less specialization. It may also be used by students who do not wish to over specialize at the undergraduate level. It couples the basic business sequence with liberal arts courses.

Advisers: Hoyt, Norby.

Core requirements. See page 82	28 units
English 106A—Pre-professional Writing	3 units
Speech 110—Advanced Public Speaking <i>or</i>	
Speech 111—Persuasive Speaking	3-2 units
Government 157—Constitutional Law	3 units
History 175—Economic History of the United States	3 units
Economics 100—Economics of Industry	3 units
Select one course from the following fields	3 units

English	Philosophy
Geography	Psychology
History	Sociology

NOTE: None of the above courses may be applied against general education requirements of the college.

Option 3—Executive Secretarial Major

Develops secretaries on the executive level, who, because of their exceptional ability and background, are able to assume positions of more responsibility than those on the stenographic-secretarial level.

Adviser: Gustafson.

Typing skill of 50 words per minute and shorthand skill of 90 words per minute are prerequisites to begin this major.

Core requirements. See page 82.....	28 units
Business 101—Business Correspondence	3 units
Business 110—Secretarial Techniques and Methods.....	3 units
Business 111—Applied Secretarial Practice.....	3 units
Business 112—Business Machines	2 units
Business 113—Office Organization and Management.....	3 units

Select one course from the following:

Business 171—Supervision: Principles and Problems (3)

Business 173—Personnel Management (3)

(Selected electives in psychology are recommended)

Option 4—Finance Major

Prepares the student to enter business as a trained worker in the finance department, or as a specialist in banking, insurance, and investments, or as a research analyst or budget specialist.

Adviser: Hill.

Core requirements. See page 82.....	29 units
Business 130—Credit and Collections.....	3 units
Business 132—Investments	3 units
Business 134—Budgeting	3 units
Business 135—Financial Management	3 units
Business 180—Law of Finance.....	3 units

Select one course from the following:

Business 133—Public Finance and Taxation (3)

Business 137—Investment Analysis (3)

Business 138A—Insurance Principles (3)

Business 138B—Life Insurance (3)

Business 138C—Property and Casualty Insurance (3)

Business 139A—Real Estate Principles (3)

Business 139B—Real Estate Practice (3)

Option 5—Management Majors

Majors are offered in three fields: (A) Administrative Management; (B) Industrial Management; and (C) Management of Small Business.

A. ADMINISTRATIVE MANAGEMENT MAJOR

Develops skill in administrative and supervisory techniques which is required of managers, supervisors, and similar administrative officers in the fields of industry, finance, government, labor, etc.

Advisers: Blackledge, Luther, Voris.

Core requirements. See page 82.....	28 units
Business 160—Case Studies in Business Management.....	3 units
Business 161—Executive Control	3 units
Business 171—Supervision: Principles and Problems.....	3 units
Business 173—Personnel Management	3 units

Select two courses from the following:

Business 113—Office Organization and Management (3)

Business 135—Financial Management (3)

Business 143—Sales Management (3)

Business 144—Retail Store Management (3)

Business 148—Public Relations Methods for Business (3)

Business 154—Traffic Management (3)

Business 168—Small Business Management (3)

Business 172—Labor Relations and Collective Bargaining (3)

B. INDUSTRIAL MANAGEMENT MAJOR

Industrial management prepares students for factory employment in such areas as production control, time and motion study, and methods analysis.

Advisers: Luther, Voris.

Core requirements. See page 82.....	28 units
Business 160—Case Studies in Business Management.....	3 units
Business 161—Executive Control and Administration.....	3 units
Business 163—Motion and Time Study.....	3 units
Business 164—Production and Material Control.....	3 units

Select two courses from the following:

- Business 162—Industrial Equipment and Processes (3)
- Business 169—Application of Industrial Management (3)
- Business 171—Supervision: Principles and Problems (3)

C. MANAGEMENT OF SMALL BUSINESS MAJOR

Prepares the student for the ownership and/or management of a small business in industry, finance, retailing, wholesaling, etc. Stresses the various functions which must be coordinated in a small business.

Adviser: Blackledge.

Core requirements. See page 82.....	28 units
Business 113—Office Organization and Management.....	3 units
Business 130—Credits and Collections.....	3 units
Business 142—Salesmanship.....	3 units
Business 168—Small Business Management.....	3 units
Business 171—Supervision: Principles and Problems.....	3 units

Select one course from the following:

- Business 144—Retail Store Management (3)
- Business 148—Public Relations Methods for Business (3)
- Business 155—Motor Transportation Practice (3)
- Business 161—Executive Control and Administration (3)
- Business 173—Personnel Management (3)

Option 6—Labor Relations and Personnel Major

Develops skill in human relations that is required of managers, supervisors, conciliators, and similar officials in industry, finance, education, government or labor unions.

Adviser: Dance.

Core requirements. See page 82.....	28 units
Economics 102—Labor Economics.....	3 units
Business 160—Case Studies in Business Management.....	3 units
Business 172—Labor Relations and Collective Bargaining.....	3 units
Business 173—Personnel Management.....	3 units
Business 174—Labor Legislation.....	3 units

Select one course from the following:

- Business 166—Industrial Accident Control (3)
- Business 169—Applications of Industrial Management (3)
- Business 171—Supervision: Principles and Problems (3)

(Electives in industrial psychology are recommended)

Option 7—Marketing and Trade Major

Prepares student for work in the merchandising or sales departments of manufacturing, wholesaling, retailing, transportation, or foreign trade establishments.

Advisers: Chrysler, Luther.

A. MARKETING AND MERCHANDISING MAJOR

Core requirements. See page 82.....	28 units
Business 130—Credits and Collections.....	3 units
Business 140—Principles of Advertising.....	3 units
Business 142—Salesmanship.....	3 units
Business 149—Marketing Research Problems.....	3 units
Select two courses from the following:	
Business 143—Sales Management (3)	
Business 144—Retail Store Management (3)	
Business 145—Wholesaling (3)	

B. TRANSPORTATION AND FOREIGN TRADE MAJOR

Core requirements. See page 82.....	28 units
Business 145—Wholesaling.....	3 units
Business 152—International Trade Principles.....	3 units
Business 153—Principles of Transportation.....	3 units
Business 154—Traffic Management.....	3 units
Select two courses from the following:	
Business 150—Foreign Trade Practices (3)	
Business 155—Motor Transportation Practices (3)	
Business 195—Industrial Surveys (3)	

Option 8—Special Business Major

A flexible program designed for students with special and unique needs not covered by the other majors above. Permission to take this major must be secured from the chairman of the division.

Adviser: Simpson.

Core requirements. See page 82.....	28 units
18 units in business, economics and relevant fields to be worked out in conference with the division chairman and appropriate faculty members, depending upon the unique and special objectives of the student.	

II. SPECIALIZED BUSINESS AND INDUSTRIAL MAJOR(S)

The major presented below has been prepared to give the student an extensive training in the skills of a particular major industry, as well as a grasp of the principles and techniques of business management. The curriculum has been developed through close consultation with the graphic arts industry.

The lower division portion of the program is primarily concerned with the acquisition of skills and techniques of the printing industry. The upper division portion is primarily concerned with the business management phases. In addition every student meets the general education requirements of the college.

PRINTING MANAGEMENT

See page 53 for graduation requirements for the B.S. degree.

Lower Division Requirements

Consult Division of Business and Economics Chairman for required work in printing and related subjects.

Upper Division Requirements

- A. Accounting and Finance Courses
 - Business 100A—Accounting Concepts Survey 5 units
 - Select one course from the following: 3 units
 - Business 100B—Managerial Accounting
 - Business 103—Business Finance
- B. Management Courses
 - Business 106—Production Management 3 units
 - Business 179—Printing Plant Management 3 units
 - Select one course from the following: 3 units
 - Business 113—Office Organization and Management
 - Business 160—Problems of Production Management
 - Business 168—Small Business Management
 - Business 171—Supervision: Principles and Problems
- C. Marketing Courses
 - Select one from the following: 3 units
 - Business 104—Principles of Marketing
 - Business 130—Credits and Collections
 - Business 142—Salesmanship
- D. Related Business and Economics Courses
 - Business 108B—Business Law 3 units
 - Economics 102—Labor Economics 3 units
 - Select two courses from the following: 6 units
 - Business 109—Applied Business Statistics
 - Economics 103—Money, Credit and Banking
 - Economics 110—Economics of the Business Firm
- E. Graphic Arts Courses
 - Business 178A—Typographical Layout and Design 3 units
 - Business 178B—Typographical Layout and Design 3 units
 - Business 178C—Printing Estimating 3 units
- F. Work-study Elective
 - Business 198—Field Assignment and Reports 2-6 units

Minor in Business Fields

Students who elect to take a minor in business administration will be expected to take no less than 12 units in the business fields, at least nine of which shall be in upper division work.

Training for Certified Public Accountant Examinations

Students of accounting who have 12 units of upper division accounting training may qualify to pursue a series of courses which provide training for the C. P. A. examinations. Those interested in this work should consult with the head of the accounting department or write to the Division of Business and Economics for a special informational folder.

III. BUSINESS EDUCATION—BACHELOR'S DEGREE CURRICULA

Special Secondary Teaching Major in Business Education

The special secondary credential in business education authorizes the holder to teach in elementary and secondary schools subjects basic to business and commerce, and in addition, the fields of concentration named in the credential. See also graduation requirements on page 52, and professional education requirements on page 118.

Advisers: Gustafson, Bright.

- A. Six months of practical experience or 1,000 clock hours in a business occupation.
- B. The scope and function of business education.*
Education 171—Principles of Business Education (3). All students in business education take this introductory course previous to directed teaching in business education.
- C. Teaching methods in business education: * †
 1. Education 193Bb—Methods, Curriculum, and Evaluation in Bookkeeping and Business Education in the Secondary School (2); *or*
 2. Education 193Bs—Methods, Curriculum, and Evaluation in Secretarial Subjects in the Secondary School (2); *and*
 3. Education 193Bt—Methods, Curriculum, and Evaluation in Typewriting in the Secondary School (2).
- D. Applicants for the special secondary credential complete two 3-unit assignments in directed teaching in business education in secondary schools.
- E. Twenty-five semester hours of work in subjects basic to business and commerce which must include at least one course from each of the following fields:
 1. Principles of economics or elements of economics taken in the lower division; Economics 100, Economics of Industry (3); Economics 101, Introduction to Economic Analysis (3); *or* Economics 110, Economics of the Business Firm (3).
 2. Beginning typing taken in lower division.
 3. Principles or elements of accounting taken in lower division, *or* Business 100A.
 4. Business law or commercial law taken in lower division; *or* Business 108A, Business Law (3).
 5. Business 106, Production Management (3).
 6. Elementary mathematics of accounting and finance or commercial algebra taken in the lower division; *or* Business 101, Business Correspondence (3).
 7. Economic geography taken in the lower division; Geography 141, World Resources (3); Economics 190, Current Economics Problems (3).
 8. Business 104, Principles of Marketing (3); Business 142, Salesmanship (3); *or* Business 144, Retail Store Management (3).
- F. Twenty semester hours of work in at least two of the following fields, one of which must be accounting *or* secretarial training (no less than eight semester hours in each field):

* Students who have not taken any teaching methods in business education, enroll in Education 171 either previous to or concurrently with teaching methods.

† One of these courses must be taken *prior* to directed teaching in business education.

Accounting Field

- Business 100B—Management Accounting (3) *or*
- Business 102—Intermediate Accounting (4)
- Business 112—Business Machines (2)
- Electives from:
- Business 120—Advanced Accounting (4)
- Business 121A—Federal Tax Accounting (3)
- Business 122—Industrial and Cost Accounting (4)
- Business 123—Specialized Cost Accounting (3)
- Business 124—Auditing (4)

Secretarial Training Field

- Business 110—Secretarial Techniques and Procedures (3)
- * Business 111—Applied Secretarial Practice (3)
- Business 112—Business Machines (2)

Merchandising Field

- Business 104—Principles of Marketing (3)
- Electives from:
- Business 140—Principles of Advertising (3)
- Business 142—Salesmanship (3)
- Business 143—Sales Management (3)
- Business 144—Retail Store Management (3)

(NOTE: If Business 104, 142, or 144 were taken as basic subjects under requirement "E. 8" above, other courses in this area must be substituted.)

Business Management Field

- Business 103—Business Finance (3)
- Business 108B—Business Law (3)
- Business 109—Applied Business Statistics (4)
- Business 113—Office Organization and Management (3)
- Business 138A—Insurance Principles (3)
- Business 139—Real Estate Principles (3)
- Business 150—Foreign Trade Practices (3)
- Business 153—Principles of Transportation (3)
- Business 160—Case Studies in Business Management (3)
- Business 168—Small Business Management (3)
- Business 172—Labor Relations and Collective Bargaining (3)
- Business 173—Personnel Management (3)
- Business 180—Law of Finance (3)
- Business 182—Preventive Law (3)

General Secondary Teaching Major in Business Education

The general secondary teaching major in business education is the same as the major for the special secondary credential. See also general education requirements on page 52, and professional education requirements on page 116. In addition to a course in methods in the minor, two courses in methods in business education, Education 193Bb, 193Bs, *or* 193Bt are required, and must be taken *prior* to directed teaching in the field. The applicant completes one 3-unit directed teaching assignment in the major in business education and one in the minor. A minor and a graduate year including additional professional education are required.

* Adequate typing and shorthand skill are prerequisites to Business 111.

General Secondary Teaching Minor in Business Education

See also general education requirements on page 52, and professional education requirements on page 116. A general secondary teaching minor must be accompanied by a major in a different teaching field. The minor consists of 20 units of work in business administration and secretarial science subjects; 12 of these units must be in upper division, including 6 units in the same subject field, i.e., accounting, secretarial training, merchandising, or business management.

Acceptable lower division courses

Principles of Accounting	Secretarial Procedures
Typewriting	Office Machines
Shorthand and Stenography	Business Law
Transcription	Mathematics of Accounting and Finance
Office Practice	Business Correspondence

Suggested upper division courses

Business 100B—Management Accounting (3)
Business 101—Business Correspondence (3)
Business 102—Intermediate Accounting (4)
Business 103—Business Finance (3)
Business 104—Principles of Marketing (3)
Business 106—Production Management (3)
Business 108AB—Business Law (3-3)
Business 110—Secretarial Techniques and Procedures (3)
Business 111—Applied Secretarial Practice (3)
Business 112—Business Machines (2)
Business 113—Office Organization and Management (3)
Business 120—Advanced Accounting (4)
Business 140—Principles of Advertising (3)
Business 142—Salesmanship (3)
Business 143—Sales Management (3)
Business 144—Retail Store Management (3)
Business 168—Small Business Management (3)
Business 180—Law of Finance (3)
Business 182—Preventive Law (3)

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE IN COMMERCE

Prerequisite for pursuing the master's degree: An undergraduate degree in business administration or business education.

See page 56 for the total requirements for the master of arts degree.

1. Approved upper division and graduate courses from two of the following subject areas..... 12 units
 - Accounting, finance, management and marketing (at least six units must be in "200" courses).
2. Business 299—Graduate Project..... 3 units
 - (An oral review of the proposed project is to be held before a division committee not later than the twelfth week of the first semester in residence. Project is to be presented to the chairman of the candidate's committee at least three weeks prior to the end of the semester in which the degree is to be conferred.)
3. Additional graduate work elected in conference with the graduate adviser (no less than six units must be outside the fields of business)..... 15 units

COURSES OF INSTRUCTION

BASIC COURSES

100A Accounting Concepts Survey (5) Fall, Spring

Prerequisite: Consent of major adviser. Not open to those who completed one year of principles of accounting with a grade of "C" or better. A condensed and mature presentation of concepts essential to an understanding of the nature, organization, functioning, interpretation and utilization of accounting data.

100B Managerial Accounting (3) Fall, Spring

Prerequisite: One year of accounting or Business 100A. An applied course in accounting for nonaccounting majors. Emphasis is on the use of accounting information in the management of business, the application of accounting techniques to business operation and control, accounting for personal use, and practical accounting solutions to frequent and important business problems.

101 Business Correspondence (3) Fall

Prerequisite: Typing or consent of instructor. Training in composition of business letters; tendencies in present day business correspondence. Problems of management which arise in connection with correspondence. Best practice of the day is studied through letters sent by representative firms in many businesses. Assigned writing includes emphasis on service, adjustment, collection and sales letters. Practice in dictation is provided.

102 Intermediate Accounting (4) Fall, Spring

Prerequisite: One year of accounting or Business 100A. Accounting theory, practice, and problems. Topics include balance sheets, income statements and other financial statements, working papers, valuation of assets, reserves, correction of statements and application of funds.

103 Business Finance (3) Fall, Spring

Alternative forms for organizing a business; financial principles, and practices involved in such organizations, administration, and dissolution of private business corporations; financial promotions, types of securities, expansion, consolidation, and aspects of reorganization. Sources and uses of financial information. (Formerly called Corporation Finance.)

104 Principles of Marketing (3) Fall, Spring

The organization and principal operating aspects of our system for distributing goods and services. Topics covered include retail and wholesale distribution channels, consumer buying characteristics, pricing, marketing of industrial products, and cooperative marketing of agricultural products. Sources and uses of marketing information.

106 Production Management (3) Fall, Spring

The essentials of industrial organization and management. Primary departmentation, problems of supervision; authority and accountability; span of control; relationship of staff to line. Techniques of factory management, including plant layout, stores, tool, equipment and quality control; simplification and standardization. Sources and use of management information.

108A Business Law (3) Fall, Spring

Law contract and sales. Business and legal aspects of rights, duties and obligations of contracting parties and of vendor and vendee; formation of contracts and essential elements thereof; performance and breach; methods of enforcement of rights and obligations thereunder; property and securities. (Formerly called Commercial Law.)

108B Business Law (3) Fall, Spring

Prerequisite: Business 108A, or consent of instructor. Agency, copartnership, corporations, and credit instruments; rights, duties and obligations arising out of relationship and business aspects thereof. Formation, operation, and termination of such relationships; law of commercial paper; bankruptcy; insolvency. (Formerly called Commercial Law.)

109 Applied Business Statistics (4) Fall, Spring

Statistical methods most used by business. Graphic and tabular presentation of data; variation; sampling theory with applications to marketing and industrial problems; business index numbers; time series analysis; trend, seasonal and business cycles, forecasting; simple correlation; basic operation of electric rotary calculators. Five class hours per week.

EXECUTIVE SECRETARIAL**110 Secretarial Techniques and Procedures (3) Spring**

A study of nonstenographic office problems including modern business office procedures, communication problems and office techniques, filing and indexing systems, duplicating machines, effective handling of correspondence and the like, to develop secretaries capable of assuming responsibilities and exercising good business judgment. Meets four hours per week.

111 Applied Secretarial Practice (3) Fall

Prerequisites: Typing skill of 50 words per minute and shorthand skill of 80 words per minute. Stenographic office problems; development of skill in transcription; principles underlying the editing of letters and reports. Emphasis upon skill, knowledge, requirements, and standards for efficient secretarial procedures. Meets four hours per week.

112 Business Machines (2) Spring

The class meets four hours a week and is conducted on a rotation plan. It provides an opportunity for students to develop an understanding of the uses for and a working knowledge of several types of office machines, including 10-key and full-keyboard adding machines, and key-driven, rotary, and printing calculators. (This course can be used to meet the business machines proficiency requirement.)

113 Office Organization and Management (3) Fall

Prerequisite: Business 106 or equivalent. The function of various office departments, their organization and management. Methods used in selecting and training office personnel, office planning layout, and selection and care of office supplies and equipment. Improvement of office efficiency through system and procedure simplification. Case studies and field trips.

ACCOUNTING**120 Advanced Accounting (4) Fall, Spring**

Prerequisite: Business 102 or consent of instructor. Advanced accounting problems and theory. Topics include: ventures, insurance, statement of affairs, receivership, branch accounts, banks and stock brokerage accounting, foreign exchange, estate accounting, budgets, public accounts, and analysis of financial statements.

121A-B Federal Tax Accounting (3-3) A—Fall; B—Spring

Prerequisite: Three semesters of accounting. The statutes, regulations, administrative rulings, and court decisions relative to income and income taxes. The current federal and state revenue acts affecting individuals, partnerships, and corporations. Comparative methods of tax research and bibliography. Preparation for tax returns.

122 Industrial and Cost Accounting (4) Spring

Prerequisite: One year of accounting or Business 100A. Manufacturing accounting, theory and problems, records, and financial statements; elements of cost; elements of process, specific or job-order, and standard cost accounting. Special emphasis on managerial use of cost data.

123 Specialized Cost Accounting (3) Fall

Prerequisite: Business 122. Theory and problems of the major types of cost systems in general use, analysis of expenses and costs with emphasis on factory and manufacturing accounting, budgets, estimated costs, joint and by-product costs; inventory records and control, material costs, labor costs, overhead accumulation, allocation and distribution; cost reports and control, cost accounting system critiques, development of standards, analysis of gross profit variations, applications to cost cases.

124 Auditing (4) Spring

Prerequisite: Business 120 or consent of instructor. Principles, techniques and procedures in auditing. Topics include: ethics, fraud, audit working papers, programs, verifying of balance sheet and profit and loss statements, audit reports, and the application of audit theory and practice to the records and documents of a typical corporation.

125 Corporation Accounting (2) Spring

Prerequisite: Business 120 or consent of instructor. Theory and problems. The California Corporation Code. Incorporation requirements affecting accounting procedure, corporate reports, mergers, amalgamations and consolidations, holding companies; principles underlying and preparation of consolidated balance sheets and income statements. CPA examination problems relative to corporations.

126 CPA Law Problems and Cases (2) Spring

Prerequisites: Senior or graduate status and consent of instructor. Survey of all points of law covered by CPA examinations. Topics include: principles of law and cases on contracts, corporations, property, negotiable instruments, partnerships, agency, bailments, insurance, sales, guaranty and suretyship, and receiverships.

127 Municipal and Governmental Accounting (3) Fall

Prerequisite: Business 120 or consent of instructor. Accounting theory and problems of governmental and institutional units. Topics include: budgeting, tax levies, appropriations, accounting for revenues, expenditures of various funds, their financial statements, and special auditing or accounting problems.

128 CPA Auditing and Theory (2) Fall

Prerequisites: 21 units of accounting and consent of instructor. Survey and review of principles, practice, questions and problems in auditing and theory of accounts; practice and review of actual CPA examination questions.

129A-B Advanced CPA Problems (2-2) A—Fall B—Spring

Prerequisites: 21 units of accounting and consent of instructor. Intensive survey and solution of techniques of accounting problems of CPA examination caliber, covering prior CPA examinations in accounting practice.

FINANCE, REAL ESTATE AND INSURANCE**130 Credits and Collections (3) Fall**

Effect of credit upon business; the instruments of credit; organization of credit; factors affecting the quality of a credit risk; credit investigation and analysis; fundamentals, methods and tools of collection; credit investigation and analysis.

131 Business Cycles and Forecasting (3) Fall, Spring

Prerequisites: Business 109, Economics 103. Analysis of variations in business activity and the national income. The various theories which have been advanced to account for these variations are surveyed, and proposals for reducing fluctuations are analyzed.

Credit may not be secured for both Business 131 and Economics 135.

132 Investments (3) Fall

Prerequisite: Business 103. Principles of investment, a survey of corporate securities, basic risks of investment, the investment program of the individual, other investment policies or programs, the principles of investment analysis and how to select bonds and common stock.

133 Public Finance and Taxation (3) Fall

Prerequisite: Economics 103 recommended. A survey of the expenditures of governments, the methods of securing funds, and the impact of these activities upon the economic functions of society.

Credit may not be secured for both Business 133 and Economics 133.

134 Budgeting (3) Spring

Prerequisite: Business 102. Modern practices and techniques involved in the formulation, enactment and administration of the budget; relation of budget practices to accounting and scientific management in business and government; preparing the budget; sources for estimates; relation of performance to estimates; analysis and reports for budgetary control.

135 Financial Management (3) Spring

Prerequisite: Economics 103 and Business 103. Banking from the standpoint of both bankers and businessmen; functioning of bank credit and banking institutions; the Federal Reserve system and its relationship to business; public regulation and supervision of banking and credit; case problems in financial management based on recent experiences of business; current developments.

137 Investment Analysis (3) Fall

Prerequisite: Business 132 or consent of instructor. A comprehensive study of the fundamentals of investment practice; analysis of financial statements; selection of fixed income securities; valuation of common stocks; stockholders and management; security analysis in action.

138A Insurance Principles (3) Fall

Insurance as an economic and business institution. A survey of fire, marine, casualty and life insurance for those interested as potential consumers or as a career.

138B Life Insurance (3) Spring (Offered 1954-55)

Prerequisites: Consent of instructor. The economic and personal significance of life insurance; types of policies, contracts, premium determination and reserves; insurance as an investment; and group life, health and accident insurance.

138C Property and Casualty Insurance (3) Spring (Offered 1955-56)

Types of protection available to cover risks to property and ocean, and inland marine; robbery, theft, and various types of damages.

139A Real Estate Principles (3) Spring

Nature of real property; factors affecting real property; values and income; government regulation of real estate practices.

139B Real Estate Practice (3) Fall

Prerequisite: Business 139A or consent of instructor. Procedures, methods, standards, and ethics of the real estate business; emphasis upon the function of the broker and real estate selling.

MARKETING AND TRADE**140 Principles of Advertising (3) Fall**

Prerequisites: Business 104 or consent of instructor. What advertising is and what it is used for; its marketing and economic functions; advertising media, copy, layout, research. Printing and production processes; the organization of advertising departments and advertising agencies.

141 Advanced Advertising (3) Spring (Offered 1954-55)

Prerequisite: Business 140 or consent of instructor. Preparation of advertisements for newspapers, magazines and other printed media; effective advertising appeals, basic elements of good advertising for business concerns, headlines, slogans, etc. Importance of layouts, production and advertising budgets.

142 Salesmanship (3) Fall

Prerequisite: Business 104 or consent of instructor. The development and practical application of sales techniques in selected fields. The work of the salesman, including customer relationships, home office relationships, the evaluation of sales opportunities and the development of the sales canvass. Includes lectures, discussions, demonstrations and oral participation in sales presentations.

143 Sales Management (3) Spring

Prerequisites: Business 104, Business 106 and previous or concurrent registration in Business 142. Activities and organization of the sales department. Methods employed by sales managers in selecting, training, and supervising salesmen; selling methods, materials, and campaigns; distribution channels and territories; pricing, budgets, controls and sales research. Lectures, cases, discussions, guest speakers, and exhibits.

144 Retail Store Management (3) Fall

Prerequisites: Business 106 and Business 142. Retailing methods from the standpoint of the owner and manager. Such subjects as buying, planned stocks, inventory control, markup, accounting for stock control, pricing, style merchandising, and advertising are included. Problems of general management are emphasized, including departmentation, personnel control, supervisory training, store layout and store location.

145 Wholesaling (3) Fall

Prerequisite: Business 142 or consent of instructor. Economic aspects of wholesaling, its growth and trends, especially since World War II, wholesaling functions in fields of agriculture, consumers goods, industrial goods, etc. The status of wholesaling in domestic and foreign trade; techniques and methods of order handling, warehousing and stock control, credit management, wholesaling cooperatives and governmental regulations. Wholesale customer relationships.

148 Public Relations Methods for Business (3) Spring

(Offered 1955-56)

Prerequisite: Business 104. Public relations policies and techniques for business enterprises; development of good relationships with customer, employee, stockholder, government and general public as a profitable investment; importance of honesty and fairness in all public dealings; the place of research, advertising, sales promotion and publicity in public relations programs; uses of specific media.

149 Marketing Research Problems (3) Spring

Prerequisite: Business 109 and prior or concurrent registration for Business 143. Practical sales and research problems with field investigations and reports covering application of the scientific method to the solution of sales problems. Problem analysis, collection of information from field observation and surveys and from sales records and secondary sources, the analysis and interpretation of data, and the preparation of reports.

150 Foreign Trade Practices (3) Spring (Offered 1956-57)

Techniques of foreign trade; exchange of goods; declarations; quotations; packing; shipping.

152 International Trade Principles (3) Fall (See Economics 106)**153 Principles of Transportation (3) Fall (Offered 1956-57)**

The economic significance of rail, bus, truck, air and inland waterway transportation. Problems of rate structures, regulation and finance of the transportation systems. Special emphasis on rail transport.

154 Traffic Management (3) Fall (Offered 1955-56)

Prerequisite: Business 153. Principles and practices of industrial traffic management including organization and operation of the traffic department, shipping documents, rate analysis and rate adjustment procedure, routing, tracing, expediting tariff supervision claims and claim prevention, procedure before regulatory commissions, traffic management and foreign trade, and traffic research.

155 Motor Transportation Practices (3) Spring (Offered 1956-57)

Prerequisite: Business 153 or consent of instructor. An intensive survey of motor carrier practices. Emphasis on both inter- and intra-city motor transportation problems, including the packaging of goods for shipment and warehousing.

INDUSTRIAL MANAGEMENT**160 Case Studies in Business Management (3) Fall**

Prerequisite: Business 106 or equivalent. Detailed case studies of the techniques of factory management, factory organization, departmentation and its criteria. Problems of middle supervisory levels; authority and accountability; relationships of staff to line. Concepts of production planning. (Formerly called Problems of Production Management.)

161 Executive Control and Administration (3) Spring

Prerequisites: Business 106 and 160. The use of the case method to acquaint the student with major executive responsibilities and problems in various industries. Training is provided in the diagnosis of current problems and in the formulation of sound administrative policies and practices, requiring a consideration of sales, production, finance, and personnel factors.

162 Industrial Equipment and Processes (3) Fall

Prerequisite: Business 106 or consent of instructor. The physical aspects of industry, as distinguished from the organizational and managerial aspects. Characteristics of general purpose machine tools and other industrial machinery; processes such as casting, forging, heat treating and welding. Characteristics of important materials of manufacture; the relation of equipment and operation to product. A background in physics and chemistry is helpful, but not required.

163 Motion and Time Study (3) Spring

Prerequisites: Business 109, Business 106, and Business 160. Motion economy and elements of quantitative scientific management. Operation analysis, flow process charts, the division of activity into its normal elements. Time study procedures from raw data to final rating. Standardization, rating, and delay and fatigue influences; introduction to methods-time measurement. Written reports of time and motion economy analysis.

164 Production and Material Control (3) Spring

Prerequisites: Business 106 and Business 160 or equivalent. Production planning and budgeting; development of the production control system, including product development, materials control, plant and equipment analysis, production standards and methods, personnel and supervision; control of production quantity and quality, measurement of production efficiency.

165 Industrial Purchasing (3) Fall (Offered 1955-56)

Prerequisites: Business 106 and Business 108A. Problems of purchasing raw materials, fabricated parts, standard supplies, machinery and industrial equipment. Quality control of purchases, industrial specifications and inspection. Analysis of economic purchase lots; quantitative determination of minimum lots; order points, competitive quotations and purchase contracts. Purchasing procedure, purchasing follow-up, purchase record control. Government purchasing procedures.

166 Industrial Accident Control (3) Fall (Offered 1955-56)

Prerequisites: Business 106 and Business 162 or equivalent. Theory and practice of the workmen's compensation laws of the State of California. A comprehensive study of the derivation and application of safety orders of the State of California relating to industrial operations. Demonstration, illustration and use of industrial safety devices, with presentations from the viewpoint of the safety engineer. Audio-visual material on industrial injuries.

167 Quality Control (3) Spring

Prerequisites: Business 109 or equivalent, or consent of instructor. 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. Application of correlation, analysis of variance and other techniques to industrial research problems.

168 Small Business Management (3) Spring

Prerequisite: Majority of core courses completed and/or consent of instructor. The application of management principles to the small enterprise. The case method, including location, records, purchasing, labor relations, organization, control, unit expansion, financial problems and cause of failure, relation to the economy, and taxation. Emphasis placed upon practical aspects of operation by examination of specific cases.

169 Applications of Industrial Management (3) Fall, Spring

Prerequisite: Business 106. Enrollment to be concurrent with Business 160 or consent of instructor. Detailed analysis, by field survey and conference methods, of selected manufacturing plants. Preparation of analytical reports emphasizing problems of production and their relationship to finance and marketing. The interdependence of all parts of the organization and the need for unified management thinking is stressed.

LABOR RELATIONS AND PERSONNEL**171 Supervision: Principles and Problems (3) Fall, Spring**

Prerequisite: Business 160 or consent of instructor. Supervisory methods and techniques of management; employer-employee relationships. The selection and maintenance of the working force and adjustment of the worker to the job. Problems of upgrading and supervisory training. Supervisory aspects of grievance procedure, conference and committee techniques.

172 Labor Relations and Collective Bargaining (3) Spring

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, health and safety, etc., and the impact of the law upon the above.

173 Personnel Management (3) Spring

Prerequisites: Economics 102 and Business 106, or consent of instructor. A critical examination of the principles, methods, and procedures related to the effective utilization of human resources in organizations. Historical development and objectives of personnel management, individual differences, labor budgeting, job analyses, recruitment, selection, placement, training, wage, and salary administration, hours of work and employee health.

174 Labor Legislation (3) Fall (See Economics 120)**PRINTING MANAGEMENT****178A Typographic Layout and Design (3) Fall**

Prerequisite: A course in typography or consent of instructor. Basic principles of design are applied to the products of the printer. Drawing thumbnail sketches, rough and finished layouts are done in connection with the solution of copy-fitting problems, the selection of type and paper, and the selection of various processes for the reproduction of the finished project.

178B Typographic Layout and Design (3) Spring

Prerequisite: Business 178A. This course is a continuation of Business 178A with stress upon the layout and design of complete projects. Working dummies are made to illustrate the problems of printing production. The basic elements of book design will be covered.

178C Printing Estimating (3) Fall (Offered 1956-57)

Prerequisite: All basic graphic arts courses or consent of instructor. Elements of estimating all classes of printing involving type composition, press work, binding, paper, photoengravings, are considered, followed by a series of cost-finding problems.

179 Printing Plant Management (3) Spring (Offered 1956-57)

Prerequisite: All basic graphic arts courses or consent of instructor. Organization and management of all departments in the printing plant, including the application of industrial management factors to the various departments, is considered. Inspection trips to study production methods and organization of local printing plants are used to supplement class instruction.

LAW AND GOVERNMENT REGULATION**180 Law of Finance (3) Spring**

Legal aspects of credit and security transactions. Various security devices and the function they perform. Bills, notes and checks; suretyship and guaranty, liens, pledges, chattel mortgages, conditional sales, trust receipts, warehousing, real estate mortgages and trust deeds. Rights and obligations of debtors and creditors as reflected by bankruptcy and insolvency laws, etc.

181 Law of Real Estate and Property (3) Fall

Principles of property ownership and management in their business aspects. Special reference to the law of California as it applies to community property, conveyancing, deeds, trust deeds, mortgages, leases, etc.

182 Preventive Law (3) Fall (Offered 1956-57)

A new approach to the study of law, which is designed for all students. The study of legal affairs of the individual and the businessman from the point of view of detecting and preventing or minimizing risks; avoidance of litigation; warning signs of legal complications.

185 Business and Government (3) Fall

Prerequisite: Business 106 or consent of instructor. Presents significant points of contact between business and government, and stresses the necessity for thoroughly understanding everyday relationships with public authority. The antitrust laws, fair trade laws, and unfair trade practices, are analyzed.

186 Price Regulation (3) Spring (See Economics 105)**GENERAL BUSINESS****191 Applied Business Problems (3) Fall, Spring**

Prerequisite: Two semesters of accounting, or Business 100A, and an elementary course in mathematics of accounting and finance. An advanced course dealing with the important and frequently met problems of business and their solution through applied mathematical and accounting techniques. Problem areas are finance, accounting, marketing, statistics, industrial management, income tax, and similar topics.

192A Accounting Reports (2) Fall

Prerequisite: Successful completion of 18 units of accounting and consent of instructor. Required coverage, scope, form, proper language in writing accountants' reports. The use of notes, organization of factual data, presentation of objective data, the types of certificates and qualifications. Study is made of published current annual reports, prospectus, and specimen audit reports and of the recommendations of the American Institute of Accountants.

192B Accounting Systems (2) Fall

Prerequisite: Successful completion of 18 units of accounting and consent of instructor. The techniques involved in the coordination, design, installation and control of accounting systems. Special emphasis will be placed on the study of existing systems, and the analysis of a business organization to determine its particular requirements for a system. Installation of a system in local industry under instructor supervision is a requirement for each student.

**195 Industrial Surveys (3) Spring (See Economics 100)
(Offered 1955-56)****198 Field Assignment and Reports (1-2) Fall, Spring**

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**202 Accounting Theory and Analysis (5)**

Prerequisite: Bachelor's degree in accounting. A review of, and research in, advanced phases of accounting as applied to modern business practice, and a consideration of current development in accounting theory and techniques.

203 Financial Analysis and Problems (5)

Prerequisite: Bachelor's degree based on a major in finance, or equivalent. A study of conditions causing various financial problems with special emphasis upon the analysis and practices involved in their solution. Discussion of current problems in finance; critical reviews of the analysis of, and solutions to, financial problems prepared by members of the class.

204 Contemporary Marketing Problems (5)

Prerequisites: Business 144, 145, 149. An advanced case approach to marketing problems. Topics such as influences on the consumer, marketing structures, distribution channels, brand and price policies, sales programs and sales executive problems are analyzed. Emphasis is placed on the development of competence in adjusting marketing policies to changes in the general economic climate. (Formerly called Problems in Marketing.)

206 Contemporary Management Problems (5)

Prerequisites: Business 106, 160, 161, 171 or equivalent, and basic courses in economics, business law, accounting, finance and marketing. An advanced survey course on the policy and operational problems of industrial organization. Analysis of case material and current management problems, contributed by industrial executives. Includes meetings with representatives of industrial establishments.

299 Graduate Project (3)

Directed studies to be worked out with the graduate adviser in business.

ECONOMICS

(In the Division of Business and Economics)

Staff: Mathy (Department Head), Bright, Dance, Hill, Norby, Simpson. Part-time: Collier, Norrbom, Tipton.

BACHELOR'S DEGREE CURRICULUM

Major in Economics

Prepares students for a B.A. degree in economics to qualify for positions in business and government. Specific areas include: finance, transportation, international trade, banking, agriculture, conservation of resources, communications and interstate commerce. A major in economics also provides foundations for teaching at the collegiate level and for entrance into a graduate school of business or a law school. See page 52 for additional graduation requirements for the B.A. degree.

Lower Division

Principles of Economics	3 units
Principles of Accounting	3 units
(Courses in economic geography, history, government, and mathematics are recommended.)	

Upper Division †

Economics 102—Labor Economics	3 units
Economics 103 ‡—Money, Credit and Banking	3 units
Economics 109—Statistical Methods	4 units
Economics 110—Economics of the Business Firm	3 units
Economics 111—National Income Analysis	3 units
Economics 132—Business Finance	3 units
Economics 133—Public Finance	3 units
Economics 135—Economic Fluctuations	3 units
Social Science 150—Scientific Method and Applied Logic	3 units
Electives in Economics to be selected in conference with adviser	3 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

See page 56 for the total requirements for the master of arts degree.

Prerequisite: An undergraduate major in economics, in an accredited college, or sufficient undergraduate courses to provide a foundation for advanced work. Applicants should consult an adviser in economics to determine if any deficiencies exist before entering the graduate program.

1. Social Science 250A or B
2. Approved graduate "200" courses in the field of economics

† It is recommended that Economics 102, 103, 109 and 132, and Social Science 150 be taken in the junior year.

‡ Those taking Economics 103 to remove a lower division deficiency, and those who have taken a lower division course in Money and Banking, will take Economics 130 (Monetary Management) or another upper division course to be selected in conference with a major adviser.

3. Approved courses in the field of economics, to include Economics 299, Graduate Project * _____ 6 units
4. Comprehensive oral and written examinations in the field of economics _____ 6 units
5. Approved courses outside the area of economics _____ 6 units
6. Electives _____ 6 units

* NOTE: An oral review of the proposed project is to be held before a division committee not later than the twelfth week of the first semester in residence. Project is to be presented to the chairman of the candidate's committee at least three weeks prior to the end of the semester in which the degree is to be conferred.

COURSES OF INSTRUCTION

All courses below, except Economics 101, have a principles of economics course (or Economics 101) as a minimum prerequisite.

100 Economics of Industry (3) Spring (Offered 1955-56)

Descriptive survey of manufacturing methods, costs and marketing aspects of leading American industries. Reading, lectures, field trips and other audio-visual aids.

101 Introduction to Economic Analysis (3) Fall, Spring

Basic economic tools, concepts and interrelationships. Emphasis on the private enterprise system, the national income and the business firm.

102 Labor Economics (3) Fall, Spring

The use of labor resources in the economic system. Employment, wage rates, the development of unions and collective bargaining, and labor legislation are among the topics treated.

103 Money, Credit and Banking (3) Fall, Spring

The nature of money, how it is supplied to the economic system, development and functions of banks, and the relationship between money, credit, and the general price level.

105 Economics of Price Regulation (3) Spring (Offered 1956-57)

Prerequisite: At least one course in economics numbered above 100. The legal and economic basis for governmental regulation of prices and quality of product of privately owned businesses. Emphasis on such industries as electricity, gas, telephone, and urban transportation.

106 Principles of International Trade (3) Fall

The economic bases and mechanisms of international commercial relations. Government policies on tariffs, exchange controls, subsidies, etc., will be considered.

109 Statistical Methods (4) Fall, Spring (See Business 109)

110 Economics of the Business Firm (3) Fall, Spring

Prerequisite: Principles of Economics or Economics 101. The operation of a price system in a free enterprise economy. Special emphasis upon the economic factors governing and influencing managerial decisions.

111 National Income Analysis (3) Fall

Prerequisite: Economics 103. Determinants of national income, the operation of the economy as a whole as it relates to employment and the utilization of resources. Policies directed toward a high level of employment.

112 Development of Economic Thought (3) Spring

The evolution of ideas which man has developed over the years to analyze and deal with economic problems.

120 Labor Legislation (3) Fall

Development of common law decisions on the legal status of trade unions and their activities. Consideration of federal and state laws and their administration in the areas of social security, protective labor legislation, and labor relations legislation, with emphasis upon their economic implications.

121 Economics of Collective Bargaining (3) Spring (See Business 172)**130 Monetary Management (3) Spring (Offered 1955-56)**

Prerequisite: Economics 103. An advanced approach to the functioning of the money system. Emphasis upon the policies of the U. S. Treasury, the federal reserve banks, and other factors influencing and determining the flow of funds.

132 Business Finance (3) Fall, Spring (See Business 103)**133 Public Finance (3) Fall**

Prerequisite: Economics 103 recommended. A survey of the expenditures of governments, the methods of securing funds, and the impact of these activities upon the economic functions of society.

Credit may not be secured for both Economics 133 and Business 133.

135 Economic Fluctuations (3) Fall, Spring

Prerequisite: Economics 103. Analysis of variations in business activity and the national income. The various theories which have been advanced to account for these variations are surveyed, and proposals for reducing fluctuations are analyzed.

Credit may not be secured for both Economics 135 and Business 131.

150 Government, Business and the Economy (3) Fall

(See Business 185)

151 Economics of Transportation (3) Fall (See Business 153)**171 Economic History of the United States (3) Spring**

(See History 175)

Historical survey of American economic development to the present, particularly industrialization and national legislation in the fields of industry and commerce.

172 Economic History of Europe (3) Fall (See History 148)

Examination of the economic development of Europe in modern times, with special attention to the industrial revolution and its effects.

180 Comparative Economic Systems (3) Fall

Problems with which all societies must deal in the economic aspects of life. A comparative survey of different systems which man has proposed or which are now in operation to deal with economic problems.

190 Current Economic Problems (3) Spring

Prerequisite: At least one course in Economics numbered above 100. An analysis of significant problems of the day such as agricultural price supports, the international dollar shortage, the industrial and labor monopoly situation, economic problems created by a defense program or total war, and events of economic significance which arise during the semester.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**210 Advanced Economics of the Firm (5) Fall**

Prerequisite: Economics 110, 111 or equivalent. Includes a study of scope and method of economic analysis. Principal emphasis is laid upon the role of the firm in an enterprise economy, with special reference to demand and cost analysis, pricing, managerial policies, market structures, and dynamic influences.

211 Contemporary Economic Theory (5) Spring

Prerequisites: Economics 110 and 111. An examination of the determinants of national income, the causes of fluctuation in national income and the influence of money and government fiscal policy upon economic stability. Recent developments in economic theory.

299 Graduate Project (3)

An independent paper to be developed under the direction of the head of the Department of Economics and other members of the graduate faculty.

EDUCATION

Staff: Oviatt (Division Chairman), Benedetti, Bidna, Bishop, Brockman, Brown, Brummer, Cheresh, Dible, Foley, Fresenius, Gellermann, Gowan, Hanson, Henry, Hone, Horner, Johnson, Kennedy, Klingbeil, Kudrna, Lambert, Langston, Lodge, Lorbeer, Lord, McIntire, Miles, Mortensen, Neale, Nelson, Ott, Palmer, Pearce, Peckham, Prindiville, Preston, Rhodes, Samson, Sando, Scheffsky, Schubert, Schwartz, Shepherd, Shellgrain, Smalenburg, Stewart, Tonge, Tozier, Van Winkle, Wagstaff, Wandt, Williamson, M. Wilson, Winn.

ORGANIZATION

The curriculum of the Division of Education is organized around four areas:

- (1) Elementary Education (Department Head, Langston)
- (2) Secondary Education (Department Head, Sando)
- (3) Special Education (Coordinator, Lord)
- (4) Administration and Supervision (Coordinator, Tozier)

ADVISEMENT

Personal advisement is available to any student seeking a degree or a credential in teacher education. At his first registration each student should consult an adviser in the field in which he intends to work. He may continue to work with this adviser or seek another as he becomes acquainted with the staff. Full responsibility for meeting all requirements set forth in the catalog will remain with each student.

As early as possible each student should request an evaluation which will list the requirements for the credential and/or the degree sought. Any student seeking more than one credential must have an evaluation for each credential. Application for evaluations is made at the Office of Admissions, Administration Building. The evaluation will serve as a guide for the student and the adviser in the planning of a complete program. Any deviation from this official evaluation should be approved through petitions signed by the department head. Equivalent credits from any other college transferred to Los Angeles State College to meet specific education course requirements must be of upper division standing and taken within the past 20 years.

CREDENTIALS

Los Angeles State College is accredited by the State Board of Education to recommend qualified students for the following credentials:

1. Elementary Education
 - a. General Elementary Credential, see page 113.
 - b. Kindergarten-Primary Credential, see page 114.

2. Secondary Education
 - a. Junior High School Credential, see page 116.
 - b. General Secondary Credential, see page 116.
 - c. Special Secondary Credential, see page 118.
 - Art, see page 61 and page 118.
 - Business Education, see page 88 and page 118.
 - Industrial Arts, see page 118 and page 187.
 - Limited Part-time in Industrial Arts, see page 118 and page 187.
 - Music, see page 118 and page 203.
 - Nursing Education, see page 118 and page 214.
 - Physical Education, see page 118 and page 219.
3. Special Education
 - a. Deaf—Special Secondary Credential, see page 119.
 - b. Lip Reading—Special Secondary Credential, see page 120.
 - c. Mentally Retarded—Special Secondary Credential, see page 120.
 - d. Speech Correction—Special Secondary Credential, see page 121.
4. Administration and Supervision
 - a. Elementary Administration Credential, see page 123.
 - b. Elementary Supervision Credential, see page 123.
 - c. Secondary Administration Credential, see page 123.
 - d. Secondary Supervision Credential, see page 124.
 - e. Special Subject Supervision Credential, see page 124.
5. School Service Credentials
 - a. Child Welfare and Supervision of Attendance Credential, see page 125.
 - b. Psychologist (School) Credential, see page 126.
 - c. Psychometrist (School) Credential, see page 127.

Los Angeles State College offers courses which may qualify a graduate to receive the following credentials upon direct application to the State Department of Education:

- Homemaking, see pages 118 and 183.
- Blind—Special Secondary Credential, see page 119.
- Partially Sighted—Special Secondary Credential, see page 120.
- Health and Development Credential—School Audiometrist, see page 125.
- Health and Development Credential—School Nurse, see page 126.
- * Pupil Personnel Services Credential, see note below.

ADMISSION TO TEACHER EDUCATION

Admission to Los Angeles State College does not automatically entitle a student to become a candidate for a credential. The standards for admission will vary depending upon the field which the candidate wishes to enter. Candidates working for credentials in administration and supervision or in special education should consult the advisers in each case.

A candidate working for a regular teaching credential should enroll in Education 100 during his first semester at Los Angeles State College.

* NOTE: This credential becomes effective on September 15, 1956. Students wishing to work toward this credential should consult the Guidance Committee of the Division of Education.

Through this course he will complete the following tests required for admission to teacher education.

1. Writing proficiency test.
2. Speech test.
3. Fundamentals test (included with entrance test).
4. Health examination, including chest X-ray.
5. Personality tests.

In addition, he must demonstrate evidence of:

1. Scholarship. A grade point average of 1.25 is expected of elementary credential candidates and of 1.5 for secondary credential candidates. Grades in all education courses must be "C" or better.
2. Academic and Cultural Preparation. Competency is required in all subjects and skills commonly taught in the public school. Elementary credential candidates are urged to include at least 3 units in both art and music in their lower division program. Some skill in playing the piano is recommended for all elementary credential candidates and is required of all kindergarten-primary credential candidates.
3. Personal Fitness. The student must demonstrate personal qualifications in keeping with professional standards. Attention will be directed to general appearance, poise, dress, vitality, temperament, integrity, and general social attitude. Evaluation of personal qualifications may require rating by instructors at Los Angeles State College and possibly an interview by a selected committee.

DIRECTED TEACHING

Directed teaching is one of the most important aspects of the program of teacher education at Los Angeles State College. Because of the importance of directed teaching, admission to this phase of the teacher education program is one of the crucial points in the selection of future teachers. For that reason the Los Angeles State College has developed a careful screening and selection program through which all students who wish to do directed teaching must pass.

A Directed Teaching Committee has the responsibility of passing on all applications for directed teaching. To be assigned to directed teaching the candidate must meet the following criteria:

1. A satisfactory record on the health examination. Each student must be examined at the college health center.
2. An over-all grade-point average of 1.25 for the elementary credential and a 1.5 for the secondary credential and all special education credentials.
3. A grade of "C" or better in all education courses. Any education course with a grade below "C" must be repeated (or an approved substitute course taken).

4. Completion of Education 100—including satisfactory scores on the fundamentals examination, the writing proficiency test, and the speech test. Education 100 should be taken the first semester at Los Angeles State College.
5. Completion of a minimum of 12 units of work in Los Angeles State College.
6. Completion of the course prerequisites for Education 150, Education 151, Education 350, or Education 351 as listed in the course descriptions.
7. All secondary directed teaching candidates must be approved by the divisions representing their teaching major and minor.
8. Demonstration of suitable aptitude and fitness for teaching and for adjustment to public school conditions. This factor may be determined by tests, interviews, and other studies evaluated by committee action.
9. Evidence of personality and character traits in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, cooperativeness, temperament, and integrity.

If a student meets all the criteria listed above, he will be approved by the committee.

Ordinarily, all candidates for the kindergarten-primary, general elementary, junior high school, and the special secondary credentials will do their directed teaching in the last semester of their senior year. All candidates for the general secondary credential will do their directed teaching in their graduate year. Candidates for the special education credentials will usually do their directed teaching in the graduate year, but outstanding students may be permitted to do directed teaching in the last semester of the senior year. Directed teaching assignments are made in the elementary and secondary schools of Los Angeles City and Los Angeles County. Application for directed teaching must be filed a semester ahead of the actual assignment. Students are responsible for observing the deadline for filing. Due to the amount of time and work required of students in directed teaching, they are encouraged to restrict their enrollment to no more than 12 units in the semester in which they carry 6 or more units of directed teaching. Heavy out-of-school work loads are strongly discouraged.

Provisional Credential Renewal

Los Angeles State College is prepared to cooperate with students seeking renewal of provisional credentials. A letter of recommendation to the State Department of Education will be written for the student only if the following conditions have been fulfilled:

1. The applicant must be a regularly admitted student.

ELEMENTARY EDUCATION

Students working in elementary education or kindergarten-primary education will ordinarily be granted the bachelor of arts degree with a major in education at the same time they complete the requirements for the credential.

Candidates who have two or more years of successful teaching experience may waive Education 150 provided they take 8 semester units of elective education courses. Letters verifying successful teaching experience should be signed by a principal, supervisor or superintendent and forwarded to the Admissions Office.

Graduate students in kindergarten-primary or elementary education who intend to do directed teaching at Los Angeles State College will be required to complete at least 7 units in the composite minor including at least one course in three of the following four areas: art, music, language arts, and physical education.

The final selection of courses from the composite minor should be made after consultation with the education adviser. By proper planning a graduate student can earn a kindergarten-primary or a general elementary credential in two semesters.

BACHELOR'S DEGREE CURRICULA

General Elementary Credential (Major and Composite Minor)

See also additional graduation requirements on page 52.

Lower Division

No professional courses in education taken at a junior college will be accepted. It is recommended that lower division work include at least one course in both music and art.

Upper Division

Education 100—Introduction to Credential Programs	1 unit
Education 112—Principles, Curriculum and Methods in Elementary Education	8 units
Education 113—Psychological and Sociological Foundations of Education	5 units
Education 149—The Teacher in the School and Community	3 units
Education 150AB—Directed Teaching	8 units

Composite Minor: This program should be selected with the adviser.

1. Art—Select from the following	4 units
Art 100—Art for Elementary School (2)	
Art 120—Crafts for Elementary School (2)	
Art 126—Construction for Elementary Schools (2)	
2. Music	4 units
Music 103AB—Music for Children (2-2) "A" must be taken before "B."	

3. Language Arts—Select from the following 3 units
 - English 128—Interpreting Children's Literature (3)
 - Speech 163A—Speech and Dramatic Activities in Elementary School (3)
 - Speech 134—Principles and Methods of Speech Therapy (3)
4. Social Studies—Select from the following 3 units
 - Geography 101—Survey of the Modern World (3) (recommended)
 - Geography 131—Geography of California (3)
 - History 181—The Westward Movement and the West (3)
 - History 188—California (3)
5. Physical Education—Select from the following 3 units
 - P.E. 120—Physical Education in Elementary Schools (3) (recommended)
 - H. & S.Ed. 150—School Health Education (3)
6. Natural Science—Select from the following 3 units
 - Physical Science 100—Survey of Physical Science (3)
 - Biological Science 100—Survey of Biological Science (3)
 - Nature Study 118—Everyday Nature (3)
 - Nature Study 120—Nature in California (3)

Kindergarten-Primary Credential (Major and Composite Minor)

See also additional graduation requirements on page 52.

Lower Division

No professional courses in education taken at a junior college will be accepted. It is recommended that lower division work include at least one course in music and art. Some skill at piano playing will be required.

Upper Division

- Education 100—Introduction to Credential Programs 1 unit
- Education 105AB—Kindergarten-Primary Education 4 units
- Education 112—Principles, Curriculum and Methods in Elementary Education 8 units
- Education 113—Psychological and Sociological Foundations of Education 5 units
- Education 149—The Teacher in the School and Community 3 units
- Education 150AB—Directed Teaching 8 units

Composite Minor: This program should be selected with the adviser.

1. Art—Select from the following 4 units
 - Art 100—Art for Elementary School (2)
 - Art 120—Crafts for Elementary School (2)
 - Art 126—Construction for Elementary School (2)
2. Music 4 units
 - Music 103AB—Music for Children (2-2)
3. Language Arts—Select from the following 3 units
 - English 128—Interpreting Children's Literature (3)
 - Speech 163A—Speech and Dramatic Activities in Elementary Schools (3)
 - Speech 134—Introduction to Speech Therapy (3)
4. Social Studies—Select from the following 3 units
 - Geography 101—Survey of the Modern World (3) (recommended)
 - Geography 131—Geography of California (3)
 - History 181—The Westward Movement and the West (3)
 - History 188—California (3)

- 5. Physical Education—Select from the following 3 units
 - P.E. 120—Physical Education in Elementary Schools (3) (recom-
mended)
 - H. & S.Ed. 150—School Health Education (3)
- 6. Natural Science—Three units selected from 3 units
 - Biological Science 100—Survey of Biological Science (3)
 - Physical Science 100—Survey of Physical Science (3)
 - Nature Study 118—Everyday Nature (3)
 - Nature Study 120—Nature in California (3)

Special Secondary Credential for Teaching the Deaf

See also additional graduation requirements on page 52.

Lower Division

No professional courses in education taken at a junior college will be accepted in lieu of the following requirements:

Upper Division

Required:

- Education 100—Introduction to Credential Programs 1 unit
- Education 120—Speech Reading 3 units
- Education 160AB—Language for the Deaf (3) (3) 6 units
- Education 161AB—Speech for the Deaf (3) (3) 6 units
- Education 168A—Teaching Elementary School Subjects to the Deaf 2 units
- Education 196AB—Practicum in Aural Rehabilitation (2) (2) 4 units
- Education 349—Observation 1 unit
- Education 351—Directed Teaching 6 units

Elective: Select 3 to 8 units from the following:

- Education 168B—Teaching Reading to the Deaf 2 units
- Education 169—Teaching Secondary Subjects to the Deaf 2 units
- Education 188—Psychology and Education of Exceptional Children 3 units
- Education 189—Education and Guidance of the Deaf 2 units
- Education 197AB—Field work in Education of the Deaf (2) (2) 4 units

Students who do not hold a general elementary credential are advised to elect in addition the basic foundation courses required for that credential. Students who already hold a bachelor's degree and wish to work for the credential for the deaf will be required to complete only the required section of the major outlined above.

SECONDARY EDUCATION

Before any candidate is assigned to directed teaching in secondary education he must have approval from the division chairman in the teaching major, the division chairman in the teaching minor and the Department Head in Secondary Education. Each candidate should be certain he has an evaluation outlining all requirements for the credential. Advisement should be secured from subject field advisers and an education adviser.

Junior High School Credential

By careful planning the candidate may earn the junior high school credential as part of a four-year college program. See also additional graduation requirements on page 52.

The requirements listed below must be met by all students at Los Angeles State College who expect recommendation for the junior high school credential.

1. Completion of a bachelor's degree with a grade point average of at least 1.5.
2. Completion of the United States Constitution requirement either through course or examination.
3. Completion of two teaching minors in subject fields commonly taught in the junior high school. In each case approval of the teaching minors must be obtained from the chairman of the division concerned.
4. Completion of the education major listed below:

Education 100—Introduction to Credential Programs	1 unit
Education 113—Psychological and Sociological Foundations of Education	5 units
Education 114—Core Course in Secondary Education	5 units
Education 147—Audio-Visual Instruction	2 units
Education 193—Methods in first teaching field	2 units
Methods in second teaching field	2 units
Education 130—Fundamentals of Counseling and Guidance	2 units
Education 132AB—Problems in Secondary Teaching	3 units
Education 151—Directed Teaching	6 units

General Secondary Credential

The general secondary credential is a five-year program requiring at least 30 units beyond the bachelor's degree.

A student working for a general secondary credential should earn a degree with a teaching major and a teaching minor. A student who has a major in a field not commonly taught in high school may use two teaching minors from the approved list. In addition the candidate must meet the professional education requirements outlined below:

1. Completion of a bachelor's degree from an accredited college or university with a grade point average of at least 1.5 including a program of general education as follows:
 - a. 40 units of general education * with a minimum of 6 semester units in each of the following four areas:
 - (1) Science and mathematics;
 - (2) The practical arts and the fine arts such as art, music, physical education, and health;
 - (3) Social studies;
 - (4) The communicative arts such as languages, literature and speech.
2. Completion of the United States Constitution requirement, either through course or examination.
3. Completion of a minimum of 30 units of upper division and graduate courses after receipt of the bachelor's degree, including at least 6 units in subject fields commonly taught in junior and senior high school.
4. Completion of an approved teaching major and of an approved teaching minor. Approval of the teaching major and the teaching minor must be obtained in each case from the chairman of the division concerned. Majors and minors in the teaching fields shall be selected from the subject fields listed below:

- | | |
|----------------------------------|---|
| Art, see page 62. | Life Science and General Science, see page 73. |
| Business Education, see page 89. | Mathematics, see page 199. |
| English, see page 154. | Music, see page 204. |
| Foreign Languages, see page 254. | Physical Education, see page 220. |
| Health Education, see page 174. | Physical Science and General Science, see page 226. |
| Homemaking, see page 182. | Social Studies, see page 245. |
| Industrial Arts, see page 188. | Speech and Drama, see page 257. |
| Language Arts, see page 195. | |

5. Completion of the following courses in education: (Not necessary to complete prior to bachelor's degree. See adviser.)

Education 100—Introduction to Credential Programs	1 unit
Education 113—Psychological and Sociological Foundations of Education	5 units
Education 114—Core Course in Secondary Education	5 units
Education 147—Audio-Visual Instruction	2 units
Education 193—Methods in Major teaching field	2 units
Methods in Minor teaching field	2 units
Education 130—Fundamentals of Counseling and Guidance	2 units
Education 132AB—Problems in Secondary Teaching	3 units
Education 350—Directed Teaching	6 units

* This 40-unit general requirement is completed when a student meets the graduation requirements on page 52.

Special Secondary Credential

The special secondary credential in subject fields is ordinarily earned during a four-year program. It requires no work beyond the bachelor's degree. No minor is required. The requirements including approved subject fields for teaching majors are outlined below:

1. Completion of a bachelor's degree from an accredited college or university with a grade point average of at least 1.5 including a program of general education as follows:
 - a. Limited part time industrial arts and nursing education require no general education.
 - b. Art, industrial arts, and music require 16 semester hours of general education.
 - c. Business education, physical education, and homemaking require 40 semester hours of general education.
2. Completion of the United States Constitution requirement, either through course or examination.
3. Completion of an approved teaching major from one of the following fields:

Art, see page 61.

Music, see page 203.

Business Education, see page 88.

Nursing Education, see page 214.

Homemaking, see page 183.

Physical Education, see page 219.

Industrial Arts, see page 187.

Limited Part-time Credential in Industrial Arts Education, see page 187.

Approval of the teaching major must be obtained from the chairman of the division concerned. No minor is required.

4. Completion of the following courses * in education:

Education 100—Introduction to Credential Programs	1 unit
Education 113—Psychological and Sociological Foundations of Education	5 units
Education 114—Core Course in Secondary Education	5 units
Education 193—Methods in Major Teaching Field	2 units
Education 147—Audio-Visual Instruction	2 units
Education 132AB—Problems in Secondary Teaching	3 units
Education 151—Directed Teaching	6 units

* Students studying for a special secondary in Homemaking must take Education 130 if their credential is to be granted after September 15, 1956.

SPECIAL EDUCATION

Special education includes all educational programs relating to services for mentally and physically handicapped children. Teachers of special education, with the exception of the deaf, are required to hold regular credentials as well as the appropriate special secondary credential.

Although titled "special secondary" these credentials permit service throughout the entire public school grades. Students who do not hold a regular credential may complete the requirements for both the regular and special secondary concurrently.

Students definitely interested in special education should consult with the coordinator of special education as early in their program as possible.

It should be noted that there is considerable course overlapping between the requirements for several of the special credentials. It would therefore be advisable for students to consider the possibility of completing the requirements for more than one special credential. Particular attention in this regard is called to the overlap between the work for the blind and the work for the partially sighted and also between speech correction and lip reading for the hard of hearing. If more than one of these credentials is to be obtained special consideration may be given in the matter of observation and directed teaching.

Blind—Special Secondary Credential

This credential is issued to teachers who have completed the requirements for a valid elementary or secondary credential. Students who wish to earn the two credentials concurrently are urged to consult a special education adviser as early as possible.

The following sequence of courses is listed as a guideline to students wishing to secure this credential. Upon completion of the required courses, the student may secure his credential upon direct application to the State Department of Education.

* Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of the Exceptional Child	3 units
Education 162AB—Braille	6 units
Education 164—Vision	3 units
Education 167B—Methods of Teaching Blind Children	3 units
Education 349B—Observation With the Blind	1 unit
Education 351B—Directed Teaching	4 units

Typing by the touch system is required.

Deaf—Special Secondary Credential

See requirements under the bachelor of arts program for the deaf, page 115.

* Education 100 is not required of students who have regular valid California public school teaching credentials.

Lip Reading—Special Secondary Credential

This credential is issued to teachers who have completed the requirements for a valid elementary or secondary credential.* Students who wish to earn the two credentials concurrently are urged to consult a special education adviser as early as possible. The special education requirements for the credential to teach lip reading are listed below.

† Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of the Exceptional Child	3 units
Audiology 100—Audiology	3 units
Audiology 110—Audiometry	3 units
Education 120—Speech Reading	3 units
Audiology 130—Auditory Training and Hearing Aids	3 units
Speech 134—Principles and Methods of Speech Therapy	3 units
Education 349HH—Observation with the Hard of Hearing	1 unit
Education 351HH—Directed Teaching	4 units
Recommended supplementary course	
Speech 131—American Phonetics (3)	
Education 160A—Language for the Deaf (3)	

Mentally Retarded—Special Secondary Credential

This credential is issued to teachers who have completed the requirements for a valid elementary or secondary credential.† Students who wish to earn the two credentials concurrently are urged to consult a special education adviser as early as possible. The special education requirements for the credential to teach mentally retarded children are listed below.

† Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of the Exceptional Child	3 units
Psychology 106—Mental Deficiency	3 units
Education 167MR—Methods of Teaching Mentally Retarded	3 units
Education 349MR—Observation of Mentally Retarded	1 unit
Education 351MR—Directed Teaching	4 units
Four units in elementary school art are required if the student has not previously completed this requirement.	
Art 100—Art for Elementary School	2 units
Art 120—Crafts for Elementary School or	
Art 126—Construction for Elementary School or	
Art 150—Art Experiences for Exceptional Children	2 units

Partially Sighted—Special Secondary Credential

This credential is issued to teachers who have completed the requirements for a valid elementary or secondary credential. Students who wish to earn the two credentials concurrently are urged to consult a special education adviser as early as possible. The following sequence of courses is listed as a guideline to students wishing to secure this credential. Upon completion of the required courses, the student may secure his credential upon direct application to the State Department of Education.

* A student must show credit for "mental hygiene" either in the Lip Reading sequence or in previous programs.

† Education 100 is not required of students who have regular valid California public school teaching credentials.

‡ A student must show credit for "Child Growth and Development" either in the Mentally Retarded sequence or in previous programs.

†Education 100—Introduction to Credential Programs.....	1 unit
Education 188—Psychology and Education of the Exceptional Child.....	3 units
Education 164—Vision	2 units
Education 167PS—Methods of Teaching the Partially Sighted Child.....	3 units
Education 349V—Observation of Partially Sighted.....	1 unit
Education 351V—Directed Teaching	6 units

Typing by the touch system is required.

Speech Correction—Special Secondary Credential

This credential is issued to teachers who have completed the requirements for a valid elementary or secondary credential. Students who wish to earn the two credentials concurrently are urged to consult a special education adviser as early as possible. The special education requirements for the credential to teach speech correction are listed below.

†Education 100—Introduction to Credential Programs.....	1 unit
Education 188—Psychology and Education of the Exceptional Child.....	3 units
Audiology 100—Audiology	3 units
Psychology 108—Mental Hygiene.....	2 units
Speech 131—American Phonetics	3 units
Speech 134—Introduction to Speech Therapy.....	3 units
Speech 135—Advanced Therapy	3 units
Speech 136 or 236—Clinical Practice.....	1 unit
Education 351S—Directed Teaching.....	4 units

Recommended supplementary courses:

Education 120—Speech Reading (3)

Audiology 130—Auditory Training (3)

Speech 130—Voice and Diction (2)

Education 349S—Observation (1)

Other Special Education Credentials

Crippled Children. A credential for teaching crippled children is now being defined by the State Department of Education. Students interested in such a credential are advised to consult the Coordinator of Special Education for probable requirements.

Behavior Problem Children. No special credential is required to teach children with behavior disorders. Students interested in this type of work are advised to consult the Coordinator of Special Education for a list of suggested courses.

† Education 100 is not required of students who have regular valid California public school teaching credentials.

ADMINISTRATION AND SUPERVISION

Students enrolling in courses in administration and supervision should indicate as early as possible the credentials for which they are working. No person will be considered a candidate for a credential until an evaluation has been requested by the student and has been processed by the college. Students who enroll only for the purpose of accumulating elective credit for salary schedule advancement need not comply with the evaluation requirement. Prospective credential candidates should contact the Coordinator of Administration and Supervision respecting admission to candidacy and advisement. An adviser will be chosen to help in the selection and sequence of courses.

Field Work. The courses in field work, Education 265AB and Education 266AB, are full-year courses carrying two units of credit each semester. Field work students must enroll in the fall semester for the A section, and in the spring for the B section.

Prerequisites. Education 265 or Education 266 may be taken only after the student has met the following criteria:

1. Three years of successful teaching experience must be verified by letter from the principal, supervisor, or superintendent.
2. Personal qualifications indicating probability of successful administrative or supervisory work must be verified by a principal, supervisor, or superintendent. The recommendation from a practicing administrator or supervisor will be required of all candidates prior to assignment in field work.
3. The student, to be approved for field work, must have been regularly admitted to the college as a graduate student.
4. Twelve units of work in the credential sequence, including Education 260, Education 270 or Education 276, Education 263 or Education 264, must be completed before field work is undertaken. At least six of these units must be in residence at Los Angeles State College.
5. The applicant should have at least one year's teaching experience in the school in which he is to do field work.

Enrollment

Students enrolling for field work must make application for field work to the Coordinator of Administration and Supervision. Applications must be filed in the office of the coordinator on or before July 15 of the school year in which field work is to be done.

Applications for field work are reviewed by a committee on the basis of personal and professional qualifications of applicants. Students are admitted to field work only on the approval of this committee.

The committee reserves the privilege of modifying the above requirements in exceptional cases. Any modification occurs only through a petition by a student for consideration as an exceptional case. Petitions for modification of requirements should be submitted to the coordinator of the department.

Elementary Administration Credential

The requirements listed below must be met by all students who expect recommendation for the elementary school administration credential.

1. Possession of a valid general elementary school credential.
 2. Three years of successful teaching experience in elementary schools.
 3. Thirty semester hours of upper division or graduate work in addition to the holding of the general elementary credential.
 4. Education 109 and Education 130 or their equivalent.
 5. Completion of the following courses:

Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
Education 270—Organization and Administration of the Elementary School	3 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 279—The Planning, Operation, and Financing of School Building Programs	2 units
Electives selected with the adviser	11 units
- (Students studying for an administration or supervision credential should consult requirements for the Master of Arts degree in these areas. Both programs can be carried on at the same time. See page 129.)

Elementary Supervision Credential

The requirements listed below must be met by all students in Los Angeles State College who expect recommendation for the elementary school supervision credential.

1. Possession of a valid general elementary school credential.
2. Two years of successful teaching experience in the elementary schools.
3. Twenty-four semester hours of upper division or graduate work in addition to the holding of the general elementary credential.
4. Completion of the following courses:

Education 109—Tests, Measurements and Evaluation	2 units
Education 130—Fundamentals of Counseling and Guidance	2 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
Education 270—Organization and Administration of the Elementary School	3 units
Electives selected with adviser	8 units

Secondary Administration Credential

The requirements listed below must be met by all students in Los Angeles State College who expect recommendation for the secondary school administration credential.

1. Possession of a valid general secondary credential.
2. Three years of successful teaching experience.
3. Twenty-two semester hours of graduate work in addition to fulfilling requirements for the general secondary credential.
4. Education 109 and Education 130 or their equivalent.
5. Completion of the following courses:

Education 260—Principles and Practices of Curriculum Development	3 units
Education 264—Supervision of Instruction and Curriculum in Secondary Schools	2 units
Education 266AB—Field Work in Secondary School Administration and Supervision	4 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 276—Organization and Administration of the Secondary School	3 units
Education 279—The Planning, Operation, and Financing of School Building Programs	2 units
Electives selected with adviser	3 units

Secondary Supervision Credential

The requirements listed below must be met by all students in Los Angeles State College who expect recommendation for the secondary school supervision credential.

1. Possession of a valid general secondary credential.
2. Two years of successful teaching experience.
3. Fifteen hours of graduate work in addition to fulfilling the requirements for the general secondary credential.
4. Completion of the following courses:

Education 109—Tests, Measurements and Evaluation	2 units
Education 130—Fundamentals of Counseling and Guidance	2 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 264—Supervision of Instruction and Curriculum in Secondary Schools	2 units
Education 266AB—Field Work in Secondary School Administration and Supervision	4 units
Education 276—Organization and Administration of the Secondary School	3 units

Special Subject Supervision Credential

The requirements listed below must be met by all students in Los Angeles State College who expect recommendation for the special subject supervision credential.

1. Possession of a valid California teaching credential.
2. Two years of thoroughly successful teaching experience.
3. Completion of professional courses as follows:

Education 102—Growth and Development <i>or</i>	
Psychology 112—Child Psychology	2-3 units
Education 109—Tests, Measurements, and Evaluation	2 units
Education 207—History and Philosophy of Education	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools <i>or</i>	
Education 264—Supervision of Instruction and Curriculum in Secondary Schools	2 units
Education 282—Vocational Guidance	3 units

SCHOOL SERVICE CREDENTIALS

Los Angeles State College is authorized to recommend candidates to the State Department of Education for the following service credentials:

- Child Welfare and Supervision of Attendance Credential
- Psychometrist Credential
- School Psychologist Credential

Each of these credentials entitles the holder to provide service to all public school grades. Interested prospective candidates should consult the Division of Education for admission to candidacy and for selection of an adviser. The detailed requirements for the service credentials are listed alphabetically on following pages.

Child Welfare and Supervision of Attendance Credential

The requirements listed below must be met by all students who expect to obtain recommendation of the college for the Child Welfare and Supervision of Attendance Credential.

1. Possession of a bachelor's degree and a valid California teaching credential of general elementary or general secondary grade.
2. Two years of successful teaching experience, or one year of successful teaching experience and one year of successful social service experience.
3. Six semester hours or the equivalent from the following _____ 6 units
 - Education 185—Child Welfare and Attendance, *or*
 - Sociology 159—Child Welfare (3)
 - Education 186—Laws Relating to Children (3)
4. Nine semester hours or the equivalent distributed among at least three of the following subject groups _____ 9 units
 - Group A: Education 102—Growth and Development (2)
 - Psychology 112—Child Psychology (3)
 - Group B: Sociology 126—Social Legislation (3)
 - Sociology 148—Juvenile Delinquency (3)
 - Group C: Education 109—Tests, Measurements and Evaluation (2)
 - Education 130—Fundamentals of Counseling and Guidance (2) *or*
 - Psychology 160—Counseling and Interviewing (3)
 - Education 282—Vocational Guidance (3)
 - Group D: Sociology 198—Field Assignment and Reports (1-4)
 - Group E: Education 188—Psychology and Education of the Exceptional Child (3)

Health and Development Credential—School Audiometrist

The following sequence of courses is listed as a guideline to students wishing to secure this credential. Upon completion of the required courses, the student may secure his credential upon direct application to the State Department of Education.

1. Possession of a valid School Audiometrist Certificate issued by the California State Department of Public Health. Requirements for this certificate may be met by:

Audiology 100—Audiology	3 units
Audiology 110—Audiometry	3 units
2. Two years of successful experience in the field of school audiometry.

Health and Development Credential—School Nurse

The following sequence of courses is listed as a guideline to students wishing to secure this credential. Upon completion of the required courses, the student may secure his credential upon direct application to the State Department of Education.

1. Possession of a valid Nurses' Certificate of Registration issued by the California State Board of Nurse Examiners.
2. Possession of the Public Health Nurse Certificate. (Los Angeles State College does not offer preparation for this certificate.)
3. Completion of work as follows:

Education 110—Educational Psychology	3 units
H.&S. 113—Administration of School Health Program	2 units
Sociology 170—Methods of Social Work	3 units

Psychologist (School) Credential

The requirements listed below are recommended for students who expect to obtain a school psychologist credential. (These requirements may be in effect only until September, 1956. For further details, see your adviser.)

1. Possession of a valid general elementary or a general secondary credential.
2. One year of successful teaching experience.
3. Possession of a master's degree in psychology or educational psychology granted by a higher institution of learning approved by State Board of Education.
4. An applicant shall be deemed to hold such a degree when he has been awarded a degree by an approved institution and when as a part of the undergraduate or graduate program he has completed 36 units of training distributed approximately as follows:

Six units to be selected from	6 units
Education 102—Growth and Development (2) or	
Psychology 112—Child Psychology (3)	
Psychology 108—Mental Hygiene (2)	
Education 130—Fundamentals of Counseling and Guidance (2) or	
Psychology 160—Counseling and Interviewing (3)	
Nine units selected from	9 units
Education 188—Psychology and Education of the Exceptional	
Child (3)	
Psychology 154—Survey of Clinical Psychology (3)	
Sociology 170—Methods of Social Work (3)	
Sociology 198—Field Assignment and Reports (1-2)	

- Six units to be selected from..... 6 units
- Education 110—Educational Psychology (3) or
 - Psychology 164—Psychology of Learning (3)
 - Education 109—Tests, Measurements and Evaluation (2)
 - Psychology 120A—Elementary Statistical Methods (3) or
 - Mathematics 113—Elementary Statistical Methods (3)
- Nine units to include both individual and group testing from..... 9 units
- Psychology 127A—Psychological Testing (group) (3)
 - Psychology 127B—Psychological Testing (individual) (3)
 - Psychology 127C—Psychological Testing (individual performance tests) (3)
 - Psychology 127D—Psychological Testing (applied to the mentally and physically atypical) (3)
 - Psychology 227—Psychodiagnostic Testing (3)
 - Psychology 228AB—Methods of Appraising Personality (3-3)
- Six units to be selected from..... 6 units
- Education 135—Diagnosis and Remedial Reading Procedures (3)
 - Education 137—Reading Clinic (3)

Psychometrist (School) Credential

The requirements listed below must be met by all students in Los Angeles State College who expect to obtain recommendation for a school psychometrist credential. (These requirements may be in effect only until September, 1956. For further details, see your adviser.)

1. Completion of requirements for a general teaching credential or a four-year college course with a bachelor's degree.
2. Completion of professional work as follows:
 - Education 102—Growth and Development *or*
 - Psychology 112—Child Psychology 2-3 units
 - Education 110—Educational Psychology 3 units
 - Education 109—Tests, Measurements and Evaluation 2 units
 - Education 188—Psychology and Education of the Exceptional Child 3 units
 - Psychology 154—Survey of Clinical Psychology 3 units
 - Psychology 127A—Psychological Testing (group) 3 units
 - Psychology 127B—Psychological Testing (individual) 3 units
3. Recommended supplementary courses:
 - Psychology 127C—Psychological Testing (individual performance tests) (3)
 - Psychology 127D—Psychological Testing (applied to the mentally and physically atypical) (3)
 - Psychology 106—Mental Deficiency (3)

MASTER'S DEGREE CURRICULA IN EDUCATION

Graduate students may earn master's degrees in education with specialization in one of the following areas:

- Elementary Teaching
- Elementary School Administration
- Elementary Curriculum and Supervision
- Secondary Teaching
- Secondary School Administration
- Secondary Curriculum and Supervision
- Guidance
- Special Education

ELEMENTARY TEACHING

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Graduate standing.
 - b. A general elementary credential (any state).
 - c. One year of successful teaching experience prior to beginning course work in this program.
2. Area of specialization:

Select from the following	3 units
Education 207—History and Philosophy of Education (3)	
Education 225—Educational Sociology (3)	
Select from the following	6 units
Education 211A—Mathematics in the Elementary School (2)	
Education 211B—Social Studies in the Elementary School (2)	
Education 211C—Reading in the Elementary School (2)	
Education 211D—Language Arts in the Elementary School (2)	
Education 211E—Science in the Elementary School (2)	
Education 230—Advanced Study in Child Development	3 units
Education 231—Seminar in Elementary Education	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 299AB *—Graduate Project	3 units
3. Outside the field of education

Select in consultation with adviser	6 units
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4. Electives

Select in consultation with adviser	3 units
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* At the discretion of the division chairman a student may take a comprehensive examination in his field in lieu of the graduate project. In this case, a 3-unit course would be substituted for Education 299AB.

ELEMENTARY SCHOOL ADMINISTRATION

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Graduate standing.
 - b. General elementary teaching credential.
 - c. Three years of successful teaching experience.
 - d. Education 109, Education 130.
2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
Education 270—Organization and Administration of the Elementary School	3 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 279—Planning, Maintaining and Operating School Buildings	2 units
Education 298—Seminar in Educational Administration <i>or</i>	
Education 299AB—Graduate Project	3 units
3. Outside the field of education

Select in consultation with adviser	6 units
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ELEMENTARY SCHOOL CURRICULUM AND SUPERVISION

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Graduate standing.
 - b. Valid regular day teaching credential.
 - c. Education 109, Education 130.
 - d. Experience as required by the State for the elementary supervision credential.
2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3 units
Education 231—Seminar in Elementary Education	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Ele- mentary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
Education 270—Organization and Administration of the Elementary School	2 units
Education 298—Seminar in School Administration and Supervision <i>or</i>	
Education 299AB—Graduate Project	3 units
3. Outside the field of education

Select in consultation with adviser	6 units
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4. Electives

SECONDARY TEACHING

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Accepted graduate status.
 - b. General secondary credential must be completed prior to or concurrently with the master of arts degree.
2. Area of specialization:
 - a. Foundations area: two or more courses from the following 6 units
 - Education 207—History and Philosophy of Education (3) *or*
 - Education 225—Educational Sociology (3)
 - Education 230—Advanced Child Growth and Development (3) *or*
 - Education 260—Principles and Practices of Curriculum Development (3)
 - b. Curriculum and Methods area: three or more courses from the following 6 units
 - Education 152—Developmental Reading in the Secondary School (2)
 - Education 247—Advanced Audio-Visual Methods (2)
 - Education 253—The Core Curriculum in Secondary Education (2)
 - Education 254—Problems of High School Students (2)
 - Education 256—Seminar for Beginning Teachers (2)
 - Education 269—Workshop for Training Teachers and Supervisors (2)
 - Education 175—Problems of the Junior High School (2)
 - c. Select one course from the following 3 units
 - Education 299AB—Graduate Project (3)
 - Education 232—Seminar in Secondary Education (3)
 - (If Education 232 is selected, an oral and written examination in the field of concentration must also be taken.)
3. Outside the field of education to be selected in consultation with adviser 6 units
4. Electives 9 units

SECONDARY SCHOOL ADMINISTRATION

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Graduate standing.
 - b. General secondary teaching credential.
 - c. Three years of successful teaching experience.
 - d. Education 109, Education 130.
2. Area of specialization:
 - Education 207—History and Philosophy of Education *or*
 - Education 225—Educational Sociology 3 units
 - Education 260—Principles and Practices of Curriculum Development 3 units
 - Education 264—Supervision of Instruction and Curriculum in Secondary Schools 2 units

Education 266AB—Field Work in Secondary School Administration and Supervision	4 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 276—Organization and Administration of the Secondary School	3 units
Education 279—Planning, Maintaining, and Operating School Buildings	2 units
Education 298—Seminar in School Administration and Supervision <i>or</i>	
Education 299AB—Graduate Project	3 units
3. Outside the field of education	
Select in consultation with adviser	6 units

SECONDARY SCHOOL CURRICULUM AND SUPERVISION

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:	
a. Graduate standing.	
b. Valid regular day teaching credential.	
c. Education 109, Education 130.	
d. Experience as required by the State Department of Education for the secondary supervision credential.	
2. Area of specialization:	
Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3 units
Education 232—Seminar in Secondary Education	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 264—Supervision of Instruction and Curriculum in Secondary Schools	2 units
Education 266AB—Field Work in Secondary School Administration and Supervision	4 units
Education 276—Organization and Administration of the Secondary School	3 units
Education 299AB—Graduate Project <i>or</i>	
Education 298—Seminar in School Administration and Supervision	3 units
3. Outside the field of education	
Select in consultation with adviser	6 units
4. Electives	7 units

GUIDANCE

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:	
a. Graduate standing.	
b. Valid regular day teaching credential for public school service.	
c. Education 130.	
d. Approval of the Guidance Committee of the Division of Education.	
2. Area of specialization:	
Education 280—Techniques of Counseling <i>or</i>	
Psychology 160—Counseling and Interviewing	3 units
Psychology 127AB—Psychological Testing	6 units
Education 233—Seminar in Pupil Personnel Services	3 units

Education 286AB—Field Work in Pupil Personnel Services	4 units
* Education 299AB—Graduate Project	3 units
3. Outside the field of education	
Select in consultation with adviser	6 units
4. Electives	5 units

NOTE: In the selection of additional courses for Items 3 and 4 particular attention should be given to the development of skills and understanding not included in the area of specialization. Further training in vocational guidance, statistics, personality appraisal, evaluation, recreation, health, child welfare, education of atypical children, family education, school-community relations and research in child growth studies will be of lasting practical worth to the counselor and guidance worker.

SPECIAL EDUCATION

Field of Concentration for the Master of Arts Degree

See also page 56 for the total requirements for the master of arts degree.

1. Prerequisites:
 - a. Graduate standing.
 - b. Basic teaching credential or substantial progress toward the credential (appropriate license usually accepted).
2. Completion of requirements for California credential in special education in area of candidate's choice.
3. Required courses
 - a. Basic Core 8-11 units
 - Education 188 *or* Psychology 104—Psychology and Education of Exceptional Child (3)
 - Education 234—Seminar in Special Education (3)
 - Education 288—Problems and Practices in Special Education (2)
 - * Education 299AB—Graduate Project (3)
 - b. Select, in consultation with adviser, appropriate offering from the following: 8-13 units
 - Selected courses in area of specialization (4-6 units)
 - Seminar in area of specialization (2-3 units)
 - Field Work (2-4 units)
4. Outside the field of education 6 units
5. Electives to complete 30 units.

Recommended:

 - Audiology 100—Audiology (3)
 - Audiology 200—Seminar in Audiology (3)
 - Education 164—Vision (3)
 - Education 230—Advanced Study in Child Development (3)
 - Education 280—Seminar in Counseling (3)
 - Education 282—Vocational Guidance (3)
 - Psychology 108—Mental Hygiene (2)
 - Psychology 106—Mental Deficiency (3)
 - Psychology 110—Abnormal Psychology (3)
 - Psychology 212—Behavior Disorders in Children (3)
 - Sociology 159—Child Welfare (3)
 - Speech 134—Introduction to Speech Therapy (3)

* At the discretion of the division chairman a student may take a comprehensive examination in his field in lieu of the graduate project. In this case, a 3-unit course would be substituted for Education 299AB.

COURSES OF INSTRUCTION

Prerequisite: Upper division standing for all education courses.

99 Reading Development on the College Level (1) Fall, Spring

This course is designed to aid the college student who needs to increase his facility with reading. Specific course of study and requirements will depend upon diagnosis of causative factors and needs. Admission is generally based upon the survey test results, and/or the instructor's approval. (Formerly Education 156)

100 Introduction to Credential Programs (1) Fall, Spring

A first course required of all students qualifying for a teaching credential. Fulfills state requirements for selection of students entering teacher credential curricula.

101 Observation and Participation (1) Fall, Spring

For transfer and extended day students only. This course duplicates work taken in Education 112 in public school observation and participation in selected elementary school classrooms. Students should allow a half day, preferably in the morning, to permit travel to and from the school and two hours in the classroom. The class will meet one hour weekly at the college for group discussion.

102 Growth and Development (2) Fall, Spring

Prerequisite: General psychology or consent of instructor. A study of the child from 6 to 18 with emphasis on physical, motor, social intellectual and emotional growth and development and inter-relatedness of these factors. Observation of children in their work and play is stressed. Credit may not be secured for both Education 102 and Psychology 112.

105A-B Kindergarten-Primary Education (2-2) Fall, Spring

Prerequisites: Education 112 and 113. The principles, curriculum, methods, materials and special problems of the kindergarten and first three grades. For those who intend to specialize at the kindergarten and lower grade level. Required for the kindergarten-primary credential.

106 Principles of Elementary Education (2) Fall, Spring

An overview of the principles underlying the objectives, procedures, operations and trends of the modern elementary school and its functions as a social agency in the community.

109 Tests, Measurements and Evaluation (2) Fall, Spring

The construction and use of teacher-made objective examinations; selection and interpretation of standardized tests; elementary statistical techniques; practical approaches to evaluation of the outcomes of instruction.

110 Educational Psychology (3) Fall, Spring

Application of psychological research and theory to the educative process. Major attention is devoted to the problems of learning, individual differences, child capacities and behavior as they are revealed in the school environment.

111 Instruction in Teaching in the Elementary Schools Fall, Spring

Prerequisite: Education 113. The four courses below are provided for transfer students and extended day students only. They duplicate part of the work in Education 112 and credit will not be given for both 111 and 112. They fulfill the methods requirements for the statutory elementary school subjects. Students are urged to take Education 112 rather than 111 except in cases of hardship where it is impossible to take elementary methods in the unified course.

111A Instruction in the Teaching of Mathematics in Elementary Schools (1) Fall, Spring

111B Instruction in the Teaching of Social Studies in Elementary Schools (1) Fall, Spring

111C Instruction in the Teaching of Language Arts in Elementary Schools (2) Fall, Spring

111D Instruction in the Teaching of Science in Elementary Schools (1) Fall, Spring

112 Principles, Curriculum and Methods in the Elementary School (8) Fall, Spring

Prerequisite: Education 113. A laboratory course covering the principles, curriculum, methods and materials of elementary school instruction. Modern methods of teaching the elementary school subjects required by the laws of California are emphasized. Audio-visual methods are included along with other methods in this unified course. Students observe and participate in selected elementary school classrooms. Required of all candidates for the general elementary credential. (Includes material covered in Education 101, 106, 111ABCD, and 147).

113 Psychological and Sociological Foundations of Education (5) Fall, Spring

Aspects of public school instruction are discussed in view of research and studies in psychology and sociology. The course is organized around two main areas: (1) problems arising from the developmental characteristics of students, including school readiness, native capacities, maturation, individual differences, emotional growth, social adjustment and mental hygiene; (2) problems arising from the teaching-learning process including motivation, study habits, educational measurements, critical thinking, transfer of training, home and community influences. The mental health and hygiene of the school child will be stressed throughout. Observation of children both in and out of schools will constitute a part of the course.

Education 113 is equivalent to Education 102, Education 110, and Psychology 108.

114 Core Course in Secondary Education (5) Fall, Spring

An interpretation of principles of secondary education in United States to prospective teachers. Emphasis will be placed upon the philosophy and growth of the secondary school. The function of the secondary schools in modern society; organization, curriculum, evaluation and general teaching materials and practices for the secondary schools. Observation in junior and senior high schools will be an integral part of the course.

120 Speech Reading (3) Fall, Spring

Prerequisite: consent of instructor. Principles and methods of teaching speech reading. Discussion of vocabulary development material and preparation of source collections for various groups.

130 Fundamentals of Counseling and Guidance (2) Fall, Spring

Prerequisite: Education 113 or equivalent. This introductory course presents to teachers, supervisors, and administrators a general orientation to those factors involved in better understanding of individual students and in the administration of the student personnel program.

132A-B Problems in Secondary Teaching (1-2) Fall, Spring

Prerequisites: The same as those for directed teaching. This course is to be taken concurrently with directed teaching. This course will involve problems arising in connection with classroom management, and over-all problems which arise as a part of a teacher's total school responsibility.

135 Diagnosis and Remedial Reading Procedures (3) Fall, Spring

The causes and nature of reading difficulties and the procedures for diagnosis and remedial treatment.

**147 Audio-Visual Instruction—Methods and Techniques (2)
Fall, Spring**

Designed to acquaint teachers with theories and methods of visual instruction and to furnish experience in the utilization of audio-visual aids. All students will have instruction in and practice on various projection and recording techniques and equipment. (Formerly called Audio-Visual Methods.)

149 The Teacher in the School and Community (3) Fall, Spring

To be taken concurrently with Education 150AB. Provides experiences in home-school-community relationships. Students are oriented to the school community and its resources, attend parent-teacher meetings, and conferences, study effective practices in human relations, examine the legal, ethical and professional responsibilities of the teacher, and study the school curriculum in action. Taught by the school principal and the college supervisor of the elementary school in which the student teacher is doing his directed teaching. Required for the elementary and kindergarten-primary credentials.

150A-B Directed Teaching in the Elementary Schools (4-4)
Fall, Spring

Directed teaching for the kindergarten-primary and elementary credentials. Prerequisites for elementary or kindergarten-primary majors: Education 112 and 113. The composite minor must also be near completion before directed teaching is attempted.

See detailed section on directed teaching for further prerequisites.

151 Directed Teaching for Junior High School and Special Secondary (3-3) Fall, Spring

Directed teaching for the Junior High School credential and the Special Secondary in subject fields. Ordinarily taken in the last semester of the senior year. All education courses required for the credential must be taken prior to, or concurrent with, the directed teaching.

152 Developmental Reading in the Secondary School (2) Fall, Spring

Prerequisite: Possession of a general secondary or junior high school credential, or consent of the instructor. A course dealing with the techniques and procedures for improving and extending the reading habits, skills, and interests of all secondary students.

160A-B Language for the Deaf (3-3) Fall, Spring

Prerequisite: consent of instructor. Principles and methods of language development with deaf children. Acquisition of language through daily activities is emphasized including the development of materials to be used in the various language areas. (Formerly 2-2 units.)

161A-B Speech for the Deaf (3-3) Fall, Spring

Prerequisite: consent of instructor. Principles and methods of eliciting meaningful speech from deaf children using tactile-kinesthetic, auditory, and visual senses. (Formerly 2-2 units.)

162A-B Braille (3-3) Fall, Spring

A course designed for teachers, with emphasis on both actual practice in reading and writing Braille, and methods and techniques involved in teaching the same. Includes preparation of graded materials.

164 Vision (3) Fall, Spring

Designed to develop a concept of vision and an understanding of the problems of the visual deviate. Includes basic principles of the lens system, the physiology of the eye, and visits to eye clinics or hospitals.

166 Vision Testing (3) Spring

Prerequisite: Education 164 or consent of instructor. Designed to meet proposed requirements of the State Board of Education for the administration of screening tests for vision. Instruction and practice in the administration of tests of vision, the making of records and reports. Consideration of California state laws and procedures relating to identification of the visual deviate and the establishment of clinics.

167B Methods of Teaching Blind Children (3) Fall

Prerequisite: Education 164 (may be taken concurrently). Instruction in Braille and in pencil writing. Preschool education for the blind, kindergarten training, methods of teaching elementary school subjects and recreation for blind children.

167D Methods of Teaching Deaf Children (3-3) Fall, Spring

Prerequisite: consent of instructor. Consideration of general problems and methods in teaching the deaf child. Attention is given to the preparation of study guides and vocabulary development in each subject area. Practice in developing units of work for deaf children will be included.

167MR Methods of Teaching Mentally Retarded (3) Fall, Spring

Prerequisite: Psychology 106 (may be taken concurrently). Principles and methods of organizing classes and developing curriculum for the mentally retarded child. Practice in developing materials for various levels.

167C Methods of Teaching of Crippled Children (3)

Study of the problems adjusting the work of the school to the needs of crippled children.

167PS Methods of Teaching Partially Sighted Children (3) Spring

Prerequisite: Education 164 (may be taken concurrently). Organization of classes for the partially sighted children, including coordination with regular class materials, equipment and methods for working with the partially sighted child. Testing materials will be included in the consideration.

168A Teaching Elementary School Subjects to the Deaf (2) Fall

Prerequisites: (One course in language for the deaf). Problems and techniques of adjusting elementary school curriculum to the needs of deaf children.

168B Teaching Reading to the Deaf (2) Fall

Prerequisite: (One course in language for the deaf). Techniques of teaching reading to deaf children.

169 Teaching Secondary Subjects to Deaf (2) Spring

A study of the special problems of adjusting the secondary school curriculum to the needs of deaf children.

170 Principles and Curriculum in Secondary Education (2)

Secondary education in the United States. Basic principles, aims and scope, upon which modern school practices are established. Student and teacher relationships, changing policies in secondary education, and in secondary school curriculum.

171 Introduction to Business Education (3) Fall

The aims, scope, desirable outcomes, organization, administration and teaching of business education in the secondary schools.

175 Problems in the Junior High School (2) Fall

Prerequisite: Possession of a junior high school credential, or consent of the instructor. The unique problems of the American junior high school will be the special focus of this course. Designed for junior high school teachers and administrators. Students will work cooperatively to find solutions to their special problems.

176 Methods and Procedures in Teaching Adults (2) Fall, Spring

Effective methods of teaching adults, basic methods of adult education, relationship of subject matter and teaching methods. Lectures, demonstrations, and discussions. This course is the essential requirement for the renewal of special adult education credential.

177 Instructional Aids and Material (2) Spring

The selection and organization of materials appropriate for adult classes; training in the various devices used in audio-visual techniques; discussion of effective use of the teaching materials.

178 Organization, Administration and Supervision of Adult Education (2) Spring

Procedures for administration of classes and schools for adults; the use of community surveys, advisory councils and other means of relating adult education to community needs.

180 Counseling and Guidance Procedures in Adult Schools (2) Spring

The nature of the problems of adult students; the counselor's place in adult education; practicum in counseling methods and techniques.

181 Curriculum Construction for Adult Classes (2) Fall

Selection and organization of subject matters for mature students, and organization of concise teaching units; definition of educational goals; selection of supplementary and reference material.

183 History and Philosophy of Adult Education (2) Spring

Basic principles of adult education; social and philosophical significance of adult education; a history and description of the past and present movements in adult education.

185 Child Welfare and Attendance (3) Spring

Attendance work, child accounting, home visitation methods, conference techniques, social case work, and agency relationships are included.

186 Laws Relating to Children (3) Fall

Educational and statutory regulations relating to children.

188 Psychology and Education of the Exceptional Child (3)

Fall, Spring

Consideration of the nature, degree, and incidence of conditions which differentiate a child from the normal pattern sensorially, neurologically, physically, mentally or psychologically. The characteristics of the deviate child and suggested procedures for meeting his needs. California state laws in relation to the identification and education of the deviate.

Credit may not be secured for both Education 188 and Psychology 104.

193 Methods and Materials in Secondary School Subjects (2)

Fall, Spring

A series of professional courses intended for prospective secondary school teachers in indicated subject fields. Each course will include consideration of objectives, methods, materials, and problems involved in teaching in the particular field. Each candidate for a secondary credential must complete the appropriate methods course in his major and minor. In general, the methods course should be taken prior to Education 350.

193A Methods of Teaching Art.

193Bb Methods, Curriculum and Evaluation in Bookkeeping and Business Education.

193Bs Methods, Curriculum and Evaluation in Secretarial Subjects.

193Bt Methods, Curriculum and Evaluation in Typewriting.

193FL Methods of Teaching Foreign Language.

193HE Methods of Teaching Home Economics.

193H&S Methods of Teaching Health and Safety Education.

193IA Methods of Teaching Industrial Arts.

193LA Methods of Teaching English, Speech and Drama.

193Ma Methods of Teaching Mathematics.

193Mu Methods of Teaching General Music.

193MuA Methods of Teaching Instrumental Music. Prerequisites: Music 105A, C, D, and E. (May be taken concurrently.)

193MuB Methods of Teaching Choral Music. Prerequisites: Music 161.

193MuC Methods of Teaching Elementary Music. Prerequisites: Music 105A, C, and 105D or E.

193N Methods of Teaching Nursing Education.

193PE Methods of Teaching Physical Education.

193Sc Methods of Teaching Science.

193SS Methods of Teaching Social Studies.

196A Practicum in Aural Rehabilitation (2) Fall, Spring

Nature of hearing; common causes of hearing loss; problems of children with hearing losses; a measurement of hearing and use of results of hearing tests in planning educational programs.

196B Practicum in Aural Rehabilitation (2) Fall, Spring

Study of techniques of rehabilitative and remedial services for children with hearing losses. Special emphasis on auditory training.

196C Practicum in Aural Rehabilitation (2) Fall, Spring

Problems of use of amplification in remedial programs for children with hearing losses. Study of characteristics of effective hearing aids; their selective and proper use.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**207 History and Philosophy of Education** (3) Fall, Spring

Prerequisite: Graduate standing or consent of instructor. Historical development of education with special emphasis upon the growth of the modern American school system. Special attention will be devoted to the various philosophies that promote and support education at each of its various levels. (Formerly Education 107.)

211A Mathematics in the Elementary School (2) Fall

Prerequisite: Experience as an elementary school teacher. Analysis of published research on the teaching and learning of mathematics in the elementary school. Identification of basic principles of instruction in mathematics.

211B Social Studies in the Elementary School (2) Spring

Prerequisite: Experience as an elementary school teacher. Analysis of published research on the teaching and learning of social studies in the elementary school. Identification of basic principles for teaching the social studies.

211C Reading in the Elementary School (2) Fall, Spring

Prerequisite: Experience as an elementary school teacher. Survey and analysis of published research on the teaching and learning of the reading process. Identification of basic principles for the teaching of reading as verified by research findings.

211D Language Arts in the Elementary School (2) Spring

Prerequisite: Experience as an elementary school teacher. Survey and analysis of published research on the teaching of the language arts (except reading) in the elementary school. Identification of basic principles for the teaching of the language arts in the elementary school.

211E Science in the Elementary School (2) Fall

Prerequisite: Experience as an elementary school teacher. Analysis of published research in science teaching at the elementary school level. Identification of basic principles for the organization of instruction in science.

225 Educational Sociology (3) Fall, Spring

A study of the relation of the school and the education system to the community. The role of the teacher in a democratic society. The social responsibility of the school.

230 Advanced Study in Child Development (3) Fall, Spring

Prerequisites: Education 102, Education 113 or equivalent and at least one year's teaching experience. Consideration will be given to recent and outstanding contributions in research, practical experimentation or theory which have important bearing upon the problems of human development. The significance of the developmental approach to the education of children will be emphasized.

231 Seminar in Elementary Education * (3) Spring

Prerequisites: Education 112, Education 113. Teachers, supervisors, and administrators will survey the major problems in elementary education. Thereafter, they will identify persistent problems reported in the professional literature and recognized in their professional experience. Working as individuals or in committees, they will seek causes and solutions for the problems. Emphasis will be on the application of the scientific method, on acquaintance with reliable sources of educational research, and on improvement in cooperative thinking.

232 Seminar in Secondary Education * (3) Fall, Spring

Students will identify persistent problems in secondary education and will survey the literature relating to these problems. Working as individuals or in committees, causes and solutions for these problems will be sought. Emphasis will be on the application of the scientific method, on acquaintance with reliable sources of educational research, and on improvement in cooperative thinking.

233 Seminar in Pupil Personnel Services (3) Fall, Spring

Prerequisites: Education 109, Education 130. A comprehensive study of pupil personnel services. The organization, administration, and evaluation of school services are considered according to the needs and problems of the pupils.

* NOTE: Ordinarily taken by candidates for the master of arts degree during the semester in which the degree requirements are completed.

234 Seminar in Special Education (3) Fall, Spring

Prerequisites: Education 188 or Psychology 104. Review of the scientific investigations relating to the problems of adjustment to physical and mental handicaps. Critical discussions of problems relating to the psychology of handicaps. Candidates for the master's degree in special education may take the comprehensive examination at the end of the seminar.

235 Seminar in Mental Retardation (2) Fall, Spring

For advanced students interested in the problems of the education of the mentally retarded. Particular attention will be given to the learning problems of the various types of the mentally retarded and appropriate materials and methods of working with each. (Formerly 3 units.)

237 Seminar in Vision (3) Spring

Prerequisite: Consent of instructor. For advanced students in the problems of vision. Emphasis will be placed on a differentiation between sight and vision. Consideration will be given to problems of the visual deviate and those who are most dependent upon their vision. Factors involving visibility will also be studied.

247 Advanced Audio-Visual Techniques (2) Spring

Prerequisite: Education 147. Selection, preparation and utilization of audio-visual aids other than the motion picture. Planned primarily for the classroom teacher. Each individual student will develop a unit of work using audio-visual aids.

253 The Core Curriculum in Junior and Senior High Schools (2) Spring

Prerequisite: Possession of a secondary credential or the consent of the instructor. A course designed for teachers in integrated programs involving social studies and language arts. Emphasis will be placed on relating the needs of secondary school youth to appropriate course objectives, content, and teaching procedures. A study will be made of sources and usages of newer teaching aids available. The development of core curriculum plans adaptable to differing levels of ability will be considered. Course content, grade placement, and skill development programs will be discussed in relation to the total secondary curriculum. Trends in the core program will also be studied.

254 Problems of High School Students (2) Fall, Spring

Prerequisite: Possession of a secondary credential and secondary teaching experience. Designed for active junior and senior high school teachers, this course will provide opportunity to study the typical problem of dating, family relationships, financial planning, military service, etc., as well as mastering the special adolescent problems within classrooms as presented by individual teachers.

256 Seminar for Beginning Teachers (2) Fall

Restricted to teachers with less than four years experience. Problems will be studied that are met and reported by beginning teachers. The purpose of this seminar is to help beginning teachers make a satisfactory start in the schools in which they begin their teaching.

260 Principles and Practices of Curriculum Development (3)
Fall, Spring

Prerequisites: Basic methods courses in elementary and secondary training. Evaluation of curriculum practices, principles of curriculum development, and the structure of curricular materials. The course will encourage a critical examination of curricular trends in light of historical perspective, sociological change, and research in child growth.

263 Supervision of Instruction and Curriculum in Elementary Schools (2) Fall, Spring

Prerequisites: Education 260 and elementary teaching experience. A brief history of the rise and development of supervision; studies the field of supervision as a part of administration, types of supervisory organizations, principles of supervision and practices which are effective in carrying out these principles.

264 Supervision of Instruction and Curriculum in Secondary Schools (2) Fall, Spring

Prerequisites: Education 260 and secondary teaching experience. Principles and practices of supervision in public high schools.

265A-B Field Work in Elementary School Administration and Supervision (2-2) Year course

Prerequisite: Admission by application. Direct participation in the administrative, supervisory and curricular aspects of elementary school administration. Designed primarily to provide students qualifying for elementary supervision and administration credentials with an opportunity for direct experiences and observations comparable to internship in elementary school administration. Field work extends over the entire school year with registration permissible only in the fall semester.

266A-B Field Work in Secondary School Administration and Supervision (2-2) Year course

Prerequisite: Admission by application. Direct participation in the administrative, supervisory and curricular aspects of secondary school administration. Designed primarily to provide students qualifying for secondary supervision and administration credentials with an opportunity for direct experiences and observations comparable to internship in secondary school administration. Field work extends over the entire school year with registration permissible only in the fall semester.

269 Workshop for Training Teachers and Supervisors (2)

Prerequisite: Possession of a secondary credential and serving, or about to serve, as a master teacher, or a supervisor of student teachers. This course is designed to fill the special needs of training teachers responsible for the supervision of student teachers in off-campus schools. All of the techniques necessary to an effective supervisory program for associate teachers will be investigated.

270 Organization and Administration of the Elementary School (3) Fall, Spring

Prerequisite: Graduate standing. Problems in federal, state, county, and district school organization; division of responsibility between school boards and administrators; principles and practices of staff organization and personal administration; special emphasis upon techniques and methods in the organization of the elementary school with attention given to issues and problems relative to instructional and non-instructional aspects of the elementary school program. (Formerly 2 units.)

272 School Law in California (2) Fall, Spring

Prerequisite: Graduate standing. Legal aspects of federal, state, county and district school organization and administration; a consideration of the legal rights, duties and responsibilities including tort liability of school agencies, certificated and classified employees, and pupils.

273 School Finance and Business Management (3) Fall, Spring

Prerequisite: Graduate standing. An analysis of fundamental principles and rules underlying public school finance, with particular emphasis on California, including the budgeting, accounting, and auditing of district revenue; the fundamentals of business management, embracing purchasing, warehousing, and supply administration. Responsibilities of various school officials and employees.

276 Organization and Administration of the Secondary School (3) Fall, Spring

Prerequisite: Graduate standing. Problems in federal, state, county, and district school organization; division of responsibility between school boards and administrators; principles and practices of staff organization and personnel administration; special emphasis upon principles, techniques and organization of the secondary school with attention to pertinent issues and problems relative to instructional and noninstructional aspects of the secondary school program. (Formerly 2 units.)

277 Personnel Problems in School Administration (2) Fall

Analysis of major administrative problems relative to employed personnel in the public school; the selection and placement of employees, conditions of service, teacher and employee tenure, retirement provisions, salary schedules, personnel records and reports, legal aspects of personnel problems, professional ethics, teacher-certification, in-service training, and professional organizations.

278 School and Community (2) Spring

A course for administrators and teachers. Analyzes characteristics of the community school; relationships between school and community; the school program in relation to community needs; use of community resources in school curriculum; influence of community organizations and institutions upon the school, e.g., P.T.A., press, radio, social service clubs, etc.

279 The Planning, Maintaining, and Operating of School Buildings (2) Fall, Spring

Prerequisites: Graduate standing, and completion of courses in curriculum administration, school organization and administration. Education planning of school buildings, and the determination of the necessary and adequate plant facilities; selection and treatment of proper school sites; problems of accessibility; population factors; effects of transportation; financing building programs; place of architects, engineers, and builders.

280 Seminar in Techniques of Counseling (3) Fall, Spring

Prerequisite: Consent of instructor. An advanced course in counseling techniques intended primarily for candidates for the master's degree in guidance and prospective or actively engaged school or other counselors. Study of counseling problems and situations. Analysis of recorded interviews. Demonstrations and practice in counseling.

282 Vocational Guidance (3) Fall, Spring

Prerequisites: Graduate standing and Education 130 and, if possible, Education 280. Designed to aid those rendering guidance services. The student will be offered practical experience in dealing with problems of selection of occupational objectives, training, placement, and employee relations.

286A-B Field Work in Pupil Personnel Services (2-2) Year course

Prerequisite: Admission by application. Designed to provide supervised field training in an organized program for those specializing in pupil personnel services at either elementary or secondary level.

288 Problems and Practices in Special Education (2) Fall, Spring

For advanced students and administrators of special education programs. Consideration will be given to problems of organization, administration, and supervision of various types of special education programs. Recent, proposed and needed legislation will be evaluated. Current literature will be reviewed.

298 Seminar in School Administration and Supervision (3)
Fall, Spring

Prerequisites: Completion of at least 20 semester hours of graduate work including all specific requirements for administration and supervision credentials; enrollment permissible only with the consent of instructor. Recommended for all candidates completing the master's program in school administration and supervision. Techniques of educational research involving the selection, definition and presentation of a problem; the selection, summarization and evaluation of materials appropriate to its solution; and the organization of bibliographical references.

299A-B Graduate Project (1-2) Fall, Spring

All candidates for the master's degree in education must take either the graduate project or a comprehensive examination. In 299A regular class meetings will be held. At that time the student will select his project and be instructed in acceptable procedures for its development. In 299B the actual project will be developed with the guidance of a project adviser. Only students approved in 299A may enroll in 299B.

349 Observation in Special Education (1) Fall, Spring

Prerequisite: Appropriate base. Observation should be taken concurrently with a methods course. It must be taken before Education 351 unless waived by the Coordinator of Special Education.

- 349B Observation with the Blind.
- 349D Observation with the Deaf.
- 349HH Observation with the Hard-of-Hearing.
- 349MR Observation with the Mentally Retarded.
- 349S Observation in Speech Correction.
- 349V Observation with the Partially Sighted.

350 Directed Teaching for General Secondary (3-3) Fall, Spring

Prerequisites: The following courses must be taken prior to, or concurrent with, directed teaching: Education 113, 114, 130, 147, 193, and 132. See the detailed section on directed teaching for other prerequisites. Directed teaching is the culminating experience in the prospective teacher's professional training. Directed teaching is done under the daily supervision and guidance of a carefully selected qualified training teacher regularly employed in secondary teaching. A designated member of the college staff also assists in general supervision and counseling. Both city and county schools cooperate in the directed teaching program.

351 Directed Teaching in Special Education (4-6) Fall, Spring

See detailed section on directed teaching for a description of the criteria for admission to directed teaching and for discussion on the importance of this program in teacher education. Directed teaching is the culminating experience in the professional training sequence. The experience is under the daily supervision and guidance of a regular qualified teacher working in special education. A member of the college staff assists in supervision and counseling. Both city and county schools cooperate in the special education program.

BACHELOR'S DEGREE CURRICULA
MAJORS IN ENGINEERING

See also page 53 for admission requirements for the B.S. degree. All students are required to take a common core of lower and upper division courses. Technical electives offered in the senior year permit a choice of engineering subjects suited to the technical objectives of the student.

Lower Division Requirements

Mathematics (to include College Algebra, Analytic Geometry, and two courses in Calculus)

Physics (to include Mechanics, Magnetism and Electricity, Light and Sound)

Chemistry

Descriptive Geometry

Drawing (Engineering)

Statics of Construction

Manufacturing Processes

Page 100 - Electric Circuit

Page 102A - Engineering Mechanics

Page 102 - Trigonometry

English 100A - Professional Writing

Electric

Modern Physics

ENGINEERING

(In the Division of Technical Sciences)

Staff: Repscha (Department Head), Cromwell. Part time: Becker, Frederickson, Geselbracht, Laubenfels, Storch, Wisda.

To meet the needs of industry for technically trained personnel, the Los Angeles State College offers a broad general engineering program leading to a B.S. in engineering.

The courses offered in the Engineering Department are designed primarily to prepare students for positions in production, construction, communication, management, and sales engineering.

Training is provided in the basic sciences and in engineering methods, processes, materials, machinery and structures. Classroom instruction is supplemented by practical engineering experience in the work-study program which is an integral part of the engineering curriculum.

BACHELOR'S DEGREE CURRICULA MAJORS IN ENGINEERING

See also page 53 for graduation requirements for the B.S. degree. All students are required to take a common core of lower and upper division courses. Technical electives offered in the senior year permit choice of engineering subjects suited to the vocational objectives of the students.

Lower Division Requirements

Mathematics (to include College Algebra, Analytic Geometry, and two courses in Calculus)	12 units
Physics (to include Mechanics, Magnetism and Electricity, Light and Sound)	10 units
Chemistry	5 units
Descriptive Geometry	3 units
Drawing (Engineering)	2 units
Materials of Construction	3 units
Manufacturing Processes	3 units
—	38 units

Upper Division Requirements

First Semester

Engr. 100—Electric Circuits	4 units
Engr. 102A—Engineering Mechanics	3 units
Engr. 105—Thermodynamics	3 units
English 106A—Preprofessional Writing	3 units
Elective	3 units
—	16 units

Second Semester

Engr. 101A—Strength of Materials	3 units
Engr. 102B—Engineering Mechanics	3 units
Engr. 104—Electric Machines	4 units
Engr. 106A—Applied Thermodynamics	3 units
*Electives	4-5 units

17-18 units

Third Semester

Engr. 101B—Strength of Materials Laboratory	1 unit
Engr. 103A—Fluid Mechanics	3 units
Engr. 106B—Heat Power Laboratory	1 unit
Engr. 107—Basic Electronics	3 units
*Electives	4-5 units
Technical elective (select one)	4 units

- Engr. 113—Elements of Machine Design (4)
 Engr. 130—AC Circuits and Applications (4)
 Engr. 158—Structures (4)
 Engr. 170—Plumbing Engineering (4)

16-17 units

Fourth Semester

Engr. 103B—Fluid Mechanics Laboratory	1 unit
*Electives	4-5 units
Technical electives (select four)	12 units

- Engr. 116—Heating, Air Conditioning and Refrigeration (3)
 Engr. 117—Machine Design (3)
 Engr. 120—Power Plants (3)
 Engr. 131—Electric Communications (3)
 Engr. 135—Industrial Electronics (3)
 Engr. 139—Industrial Controls (3)
 Engr. 153—Reinforced Concrete (3)
 Engr. 155—Specifications and Cost Estimating (3)
 Engr. 156—Foundations and Soil Mechanics (3)
 Engr. 175—Water Treatment and Sewage Disposal (3)
 Business 160—Case Studies in Business Management (3)
 Business 163—Motion and Time Study (3)
 Business 164—Production and Material Control (3)
 Public Health 105—Physical Principles of Sanitation (3)
 Public Health 120—Sanitation Bacteriology (3)

17-18 units

Students planning advanced study elsewhere are encouraged to select appropriate courses with guidance of engineering faculty from the following:

Differential Equations and Applications

Advanced Calculus

Vectors and Allied Topics

Physical Chemistry

Modern Physics

* Engr. 198—Field Assignments and Reports is recommended for students with grade average of C or better. 1 or 2 units.

Students planning to enter construction field are advised to take 6 units of Plane Surveying in lower division.

Students planning to enter plumbing industry are required to take apprentice training in the trade as supervised work-study experience.

COURSES OF INSTRUCTION

100 Electric Circuits (4) Fall, Spring

Prerequisites: Lower division physics and mathematics. Fundamental units and concepts; series and parallel circuits, and networks; balanced polyphase circuits; power and power factor; electrical instruments and measurement. Three hours lecture and three hours laboratory.

101A Strength of Materials (3) Spring

Prerequisite: Engr. 102A. Stresses and deformations in tension, compression and shear; torsion; riveted joints; simple beams and theory of flexure; deflections of beams; columns. Three hours lecture.

101B Strength of Materials Laboratory (1) Fall

Prerequisite: Engr. 101A. Tests of materials of construction in tension, compression, bending and torsion. Determination of physical properties of wood, steel, concrete and other materials. Hardness tests. Three hours laboratory.

102A Engineering Mechanics (3) Fall, Spring

Prerequisites: Lower division physics and mathematics. Fundamental principles of statics; resolution and composition of forces; algebraic and graphic solutions; friction; center of gravity; moment of inertia. Three hours lecture.

102B Engineering Mechanics (3) Spring

Prerequisite: Engr. 102A. Fundamental principles of kinetics; rectilinear and curvilinear motion; translation and rotation; work, power, impulse momentum and impact. Three hours lecture.

103A Fluid Mechanics (3) Fall

Prerequisite: Engr. 102B. Properties of fluids; compressible and incompressible; fluid statics; laminar and turbulent flow; flow in pipes and open channels; fluid measurements; impulse and momentum; pumps and turbines. Three hours lecture.

103B Fluid Mechanics Laboratory (1) Spring

Prerequisite: Engr. 103A. Flow through orifices, nozzles, meters, pipes and over weirs; water hammer; friction; pumps and turbines. Three hours laboratory.

104 Electric Machines (4) Spring

Prerequisite: Engr. 100. D-C and A-C motor and generator construction, characteristics and applications; single phase and three-phase transformers. Three hours lecture and three hours laboratory.

105 Thermodynamics (3) Fall, Spring

Prerequisites: Lower division physics and mathematics. Equation of state; energy equations; thermodynamic properties of substances; cycles; air compression; internal combustion engines. Three hours lecture.

106A Applied Thermodynamics (3) Spring

Prerequisite: Engr. 105. Application of thermodynamic principles; steam generators, engines and turbines; combustion; vapor cycles; refrigeration; mixtures of vapors and gases; heat transfer. Three hours lecture.

106B Heat Power Laboratory (1) Fall

Prerequisite: Engr. 106A. Calibration and use of instruments; heating value of fuels; flue gas analysis; steam generator, engine and turbine tests; internal combustion engine and air compressor tests. Three hours laboratory.

107 Basic Electronics (3) Fall

Prerequisite: Eng. 100. Introduction to electronic theory; a study of vacuum and gas filled electronic tubes; elements of electronic circuits. Two hours lecture and three hours laboratory.

TECHNICAL ELECTIVES**Mechanical Engineering****113 Elements of Machine Design (4) Fall**

Prerequisite: Engr. 101A. Theory of mechanisms; linkages; gears; cams; belts; chains. Application of principles of mechanics, properties of materials and fabrication processes to the design of simple machine and structural elements. Three hours lecture and three hours computation.

116 Heating, Air Conditioning and Refrigeration (3) Spring

Prerequisite: Engr. 106AB. Psychrometric properties of air; human comfort; heat transfer; heat losses from buildings; heating equipment; ventilation; refrigeration; air conditioning; residential and industrial applications. Two hours lecture and three hours computation.

117 Machine Design (3) Spring

Prerequisite: Engr. 113. Continuation of Engr. 113 to include design of unit assemblies and machines with regard to suitability of materials, safety, lubrication, construction, etc. Two hours lecture and three hours computation.

120 Power Plants (3) Spring

Prerequisite: Engr. 106AB. Power plant equipment; steam generators, engines, turbines, condensers and auxiliaries; internal combustion engines and other prime movers; load curves; economic selection; cycles and heat balances; design procedure. Two hours lecture and three hours computation.

Electrical Engineering

130 A-C Circuits and Applications (4) Fall

Prerequisite: Engr. 104. A-C networks and network theorems; coupled circuits; nonsinusoidal waves; unbalanced polyphase circuits; power factor correction and economics; transmission line calculations; short circuit calculations; symmetrical components. Applications to the transmission, distribution and utilization of electric power. Three hours lecture and three hours computation.

131 Electric Communication (3) Spring

Prerequisite: Engr. 107. Study of the entire field of electrical communication including telephone, telegraph, radio and television. Three hours lecture.

135 Electronics (3) Spring

Prerequisite: Engr. 107. Gas tube rectifiers; thyratrons and ignitrons; voltage regulated power supplies; amplifiers; oscillators; radio circuitry; transistors. Three hours lecture.

139 Industrial Control (3) Spring

Electrical control systems both magnetic and electronic; electronic instrumentation; servo-mechanisms. Three hours lecture.

Civil Engineering

153 Reinforced Concrete (3) Spring

Prerequisite: Engr. 158. Theory and design of plain, reinforced and prestressed concrete structures; design of mixes; beams; tee-beams; floors; columns; footings. Three hours lecture.

155 Specifications and Cost Estimating (3) Spring

Building specification and codes: estimating costs; material handling and transportation; excavation; concrete, wood, masonry and steel construction. Three hours lecture.

156 Foundations and Soil Mechanics (3) Spring

Physical and mechanical properties of soils; seepage; settlement; slope stability; bearing capacity of foundations; foundation types and construction.

158 Structures (4) Fall

Prerequisite: Engr. 101A. Analysis of simple structures; beams, tension and compression members; truss design; pin riveted and welded joints; analysis of stresses in roof, bridge and building frames. Three hours lecture and three hours computation.

Plumbing Engineering ***170 Plumbing Engineering (4) Fall**

Hydraulics and pneumatics; water supply and consumption; pumps and storage tanks; design and layout of piping; fire protection and sprinkler systems; drain and vent pipes; sewage and drain pumps; valves, meters and fixtures; plumbing codes. Three hours lecture and three hours laboratory.

175 Water Treatment and Sewage Disposal (3) Spring

Water supply and purification; operation and control of water treatment plants; sewage treatment and disposal; sewer systems. Three hours.

Special Courses**198 Field Assignments and Reports (1-2) Fall, Spring**

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the students' performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

* Plumbing Engineering students are advised to select three courses from the following: Engr. 116, Engr. 155, Public Health 105, Public Health 120 and Business 160.

ENGLISH

(In the Division of Language Arts)

Staff: Sandelin (Acting Head), Amneus, Bushman, Frease, Greer, Kaplan, Leary, Marcus, Shroyer, Smith.

BACHELOR'S DEGREE CURRICULA

Major in English

See also page 52 for graduation requirements for the B.A. degree.

Design for (1) students who elect to study the liberal arts tradition with an emphasis on English, (2) students who plan to engage in professional writing careers in the creative and commercial fiction fields, advertising and technical reporting.

Lower Division

Survey of English Literature 6 units

Upper Division

Select from the following at least 2 units

English 100—History and Philosophy of the English Language (2)

English 103—Semantics (2)

English 104—Grammar Review (2)

English 106A—Pre-Professional Writing (3)

English 106B—Verse Writing (2)

English 106C—Short Story Writing (2)

English 117J—Interpreting Shakespeare 3 units

Select from the following in any combination 6 units

English 121—Interpreting Fiction (3)

English 123—Interpreting Poetry (3)

English 124—Interpreting Dramatic Literature (3)

English 180A and/or B—Literature and the Fine Arts (3-3)

English 181A and/or B—Contemporary World Prose and Poetry (3-3)

English 185—Philosophy of Literature (3)

Select from the following in any combination 6 units

English 142—The Age of Chaucer (3)

English 146—The Age of Elizabeth (3)

English 152—The Age of Milton (3)

English 156—The Age of Reason (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

Select from the following in any combination 6 units

English 170A and/or B—Masters of American Literature (3-3)

English 173—New England Renaissance (3)

English 174—American Realists (3)

English 177—Major American Novelists (3)

Language Arts 197—Language Arts and the Democratic Tradition 2 units

General Secondary Teaching Major

See also general education requirements on page 52, and professional education requirements on page 116. Credential must include courses in composition, drama or journalism, speech and literature.

Designed primarily for students training to become secondary school teachers.

Lower Division

Survey of English Literature to 1700.....	3 units
Survey of English Literature Since 1700.....	3 units

Upper Division

Select at least one course from the following.....	2-3 units
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English 104—Grammar Review (2)

English 130A—High School Composition (3)

English 117J—Interpreting Shakespeare.....	3 units
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Select from the following.....	6 units
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English 130B—High School Literature (3)

English 146—The Age of Elizabeth (3)

English 152—The Age of Milton (3)

English 156—The Age of Reason (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

Select from the following.....	6 units
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English 170A—Masters of American Literature 1620-1860 (3)

English 170B—Masters of American Literature 1860-1950 (3)

English 173—New England Renaissance (3)

English 174—American Realists (3)

English 177—Major American Novelists (3)

Select from the following.....	3 units
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English 180A—Literature and the Fine Arts, B.C. (3)

English 180B—Literature and the Fine Arts, A.D. (3)

English 181A—Contemporary World Prose (3)

English 181B—Contemporary World Poetry (3)

English 185—Philosophy of Literature (3)

Speech 120—Oral Interpretation (3)

Select from the following.....	2 units
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Speech 164D—High School Dramatics (2)

Journalism 164J—High School Journalism (2)

Language Arts 197—Language Arts and the Democratic Tradition.....	2 units
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Graduate (Fifth Year)

Select from approved English literature courses.....	3 units
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Select from approved American literature courses.....	3 units
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36-37 units

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing other requirements for the degree have been met. The credential requirements in English include one approved course in speech, plus one approved course in either drama or journalism.

General Secondary Teaching Minor

See also general education requirements on page 52, and professional education requirements on page 116. Credential must include courses in composition, drama or journalism, speech, and literature.

Lower Division

Survey of English Literature, at least.....	3 units
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Upper Division

Select at least one course from the following 2-3 units

English 104—Grammar Review (2)

English 130A—High School Composition (3)

English 117J—Interpreting Shakespeare 3 units

Select from the following 6 units

English 130B—High School Literature (3)

English 146—The Age of Elizabeth (3)

English 152—The Age of Milton (3)

English 156—The Age of Reason (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

Select from the following 6 units

English 170A—Masters of American Literature 1620-1860 (3)

English 170B—Masters of American Literature 1860-1950 (3)

English 173—New English Renaissance (3)

English 174—American Realists (3)

English 177—Major American Novelists (3)

20-21 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

1. Prerequisites: For admission to candidacy for the M.A. in English, the student must present adequate undergraduate training as evidenced by 24 units of approved undergraduate English courses. See specific prerequisites for the graduate courses.

2. Area of specialization:

a. Area of Concentration (Select at least 4 courses) 12 units

English 205—Proseminar in Current American English (3)

English 206—Proseminar in Writing (3)

English 275—Proseminar in Recent American Literature (3)

English 281—Proseminar in Literature and Human Values (3)

English 299—Graduate Project

This project must be approved four weeks before the end of the semester preceding enrollment in the course.

b. One course selected from the following 3 units

The remaining course in the area of concentration (3)

Any 220 course offered by Language Arts Division (3)

English 130A—High School Composition (3)

English 130B—High School Literature (3)

English 142—The Age of Chaucer (3)

English 146—The Age of Elizabeth (3)

English 152—The Age of Milton (3)

English 156—The Age of Reason (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

English 173—New England Renaissance (3)

English 174—American Realists (3)

Speech 120—Oral Interpretation (3)

3. Approved courses exclusive of English 6 units

The following courses are suggested:

Education courses required for credential

Art 231—History of Art Seminar (3)

Economics 190—Current Economic Problems (3)

- French 102A—French Literature: The Middle Ages to the 20th Century (3)
- French 102B—French Literature: The Middle Ages of the 20th Century (3)
- Government 205—Seminar in Contemporary American National Government (3)
- Government 227—Advanced Studies in International Relations (3)
- History 274—Seminar in Recent United States History (3)
- History 278—American Reform Movements and Reformers (3)
- History 281—Studies of the American West (3)
- Journalism 145—Feature Article Writing (3)
- Journalism 150—Contemporary Editorial Problems (3)
- Psychology 245—Seminar in Social Psychology (3)
- Sociology 145—Social Psychology (3)
- Sociology 194—Social Dynamics of Abnormal Behavior (3)
- Sociology 271—Studies in Social Welfare (3)
- Sociology 279—Seminar in Marriage and the Family (3)
- Spanish 102A—Oral and Written Composition (3)
- Spanish 102B—Oral and Written Composition (3)
- Spanish 103A—Spanish Literature Since 1800 (3)
- Spanish 103B—Spanish Literature Since 1800 (3)
- Spanish 104A—Survey of Spanish American Literature (3)
- Spanish 104B—Survey of Spanish American Literature (3)
- Speech 205—Performance (3)
- No course previously taken in undergraduate status may be applied to satisfy this requirement.

4. Electives 9 units

5. Comprehensive examination

This examination searches for evidence of the comprehension, assimilation and correlation of the knowledge, values, and skills developed in the total area of concentration, and for evidence of ability to employ this training in secondary education. A portion of the examination will be devoted to an inquiry into the project submitted if the student elects English 299.

COURSES OF INSTRUCTION

99 Writing Laboratory (2) Fall, Spring

Prerequisite: Approval of the instructor. Individual and group instruction to develop communication skills.

Students who find it impracticable to register for the regular semester of organized instruction may, with the approval of the instructor concerned, apply to the Communications Center for a series of noncredit appointments providing assistance in corrective aspects of audiology, reading, speech and writing.

100 History and Philosophy of the English Language (2) Fall

Development of the English language as an instrument of social communication.

103 Semantics (2) Spring

The study of meaning in language, literature, art, ritual, science, folklore, advertising and propaganda. Application of semantic principles to various professional fields.

104 Grammar Review (2) Fall, Spring

Practical review of the more recurrent problems in English grammar. Emphasis on current grammar usage.

106A Preprofessional Writing (3) Fall, Spring

Practical work designed for students planning careers in science, commerce, industry, and the professions. Emphasis on techniques for writing, editing, and publishing scientific and professional materials in the field of the student's individual interest. (Formerly 2 units.)

106B Verse Writing (2) Spring

Prerequisite: Consent of instructor. Principles and techniques of verse writing applied to actual composition of student poems.

106C Short Story Writing (2) Fall

Principles and techniques of short fiction applied to actual composition of from 10,000 to 20,000 words of completed manuscripts.

INTERPRETATION COURSES

These courses propose to develop criteria for the selection analysis, evaluation, and enjoyment of literature. Practice offered in explication of theme, analysis of structure and language, appreciation of tone and mood, and in correlation of a literary work with its own age and contemporary life. Upper division standing and satisfactory completion of a freshman composition course (or concurrent enrollment in Language Arts 100A, Written Expression) are prerequisite to all interpretation courses.

117J Interpreting Shakespeare (3) Fall, Spring

Selected Shakespeare plays are studied as dramatic literature.

121 Interpreting Fiction (3) Fall

Intensive study of representative short stories and novels.

123 Interpreting Poetry (3) Spring

Intensive study of representative poems in English.

124 Interpreting Dramatic Literature (3) Spring

Intensive study of representative plays in English.

128 Interpreting Children's Literature (3) Fall, Spring

Intensive study of literature representative of that commonly included in elementary school courses. Equal emphasis given to developing artistic appreciation and to demonstrating the function of literature in child development.

130A High School Composition (3) Fall

Prerequisite: Freshman composition with grade of "B" or better, otherwise Language Arts 100A with grade of "C" or better. Principles and techniques of composition correlated with the experiences and readings of young people. Not a methods course, as emphasis is on subject field skills. This course satisfies one of the prerequisites for Language Arts 220, *Proseminar in Communication Problems*.

130B High School Literature (3) Spring

Prerequisite: Sophomore survey of English literature with grade of "B" or better, otherwise grade of "C" or better in at least one upper division literature course. Principles and techniques for selecting, interpreting, and evaluating reading materials for young people. Not a methods course, as emphasis is on subject field skills.

ENGLISH LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of representative authors in successive ages of England's literary history. Consideration given to the ethical, social, and artistic values of each age and to their surviving influence on the present. Completion of a survey of English literature, or consent of adviser, is prerequisite to all English age courses.

142 The Age of Chaucer (3) Fall (Offered alternate years)

Prerequisite: English 117J, or senior standing plus consent of instructor. Intensive study of selected masterpieces, primarily by Chaucer, illustrating the transition from medieval to modern life and literature. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

146 The Age of Elizabeth (3) Fall (Alternates with English 142)

Renaissance literature exclusive of drama.

152 The Age of Milton (3) Spring (Offered alternate years)

Prerequisite: English 117J, or senior standing plus consent of instructor. Intensive study of selected masterpieces, primarily by Milton. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

156 The Age of Reason (3) Spring (Alternates with English 152)**158 The Romantic Age (3) Fall****160 The Victorian Age (3) Spring**

AMERICAN LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of representative authors in successive periods in the literary history of the United States. Consideration given to the ethical, social, and artistic values of each age and to their surviving influence on the present. Upper division standing and satisfactory completion of a freshman composition course (or concurrent registration in Language Arts 100A, *Written Expression*) are prerequisite to original registration in American literature courses.

170A Masters of American Literature, 1620-1860 (3) Fall

May be taken separately, or in any sequence with English 170B.

170B Masters of American Literature, 1860-1950 (3) Spring

May be taken separately, or in any sequence with English 170A.

173 New England Renaissance (3) Fall, Spring

Prerequisite: English 121 or 170A, otherwise senior standing plus consent of instructor.* Emerson, Hawthorne, and Melville as literary spokesmen for American romantic faith. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

174 American Realists (3) Fall, Spring

Prerequisite: English 121 or 170B, otherwise senior standing plus consent of instructor. Twain, James, and Adams as literary spokesmen for American realistic temper. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

177 Major American Novelists (3) Spring

Prerequisite: English 121 or 170B, otherwise senior standing plus consent of instructor. Intensive study of selected masterpieces of American prose fiction.

COMPARATIVE LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of authors who have participated significantly in world literature. Foreign works are read in translation. Upper division standing and satisfactory completion of a freshman composition course (or concurrent registration in Language Arts 100A, *Written Expression*) are prerequisite to original registration in comparative literature courses.

180A Literature and the Fine Arts, B.C. (3) Fall

Masterpieces of oriental and classical literature studied in relation to cultural movements in thought and art. May be taken separately, or in any sequence with English 180B.

180B Literature and the Fine Arts, A.D. (3) Spring

Masterpieces of literature from the western heritage studied in relation to cultural movements in thought and art. May be taken separately, or in any sequence with English 180A.

181A Contemporary World Prose (3) Fall

Prerequisite: English 123, 160, or 174, otherwise senior standing plus consent of instructor. Readings in twentieth century prose representative of directions in contemporary thought. May be taken separately, or in any sequence with English 181B. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

181B Contemporary World Poetry (3) Spring

Prerequisite: English 121, 146, 158, or 173, otherwise senior standing plus consent of instructor. Readings in twentieth century poetry representative of directions in contemporary thought. May be taken separately, or in any sequence with English 181A. This course satisfies one of the prerequisites for English 220, *Proseminar in Literature*.

185 Philosophy of Literature (3) Fall, Spring

An introduction to representative masterworks of literary criticism designed to acquaint the student with the nature and importance of the major philosophies of literature. Special emphasis given to the development of the student's own power in critical evaluation, and to the correlation of critical thinking in the field of literature with critical thinking in other responsible disciplines in modern society.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**200 Project Writing (2)**

Prerequisite: Graduate standing. Techniques of investigation and reporting. An all-college service course.

205. Proseminar in Current American English (3)

Prerequisite: English 100 or 104. To provide a useful working knowledge of the ways in which the English language is used through a reading of important scholarly investigations and an examination of pertinent examples of current language usage. To learn ways of applying this knowledge to the practical problems of the secondary school classroom with the help of scholarly findings, examples of current usage, and discussion of the written and spoken language of the candidate and his classmates.

206. Proseminar in Writing (3)

To provide opportunities for written expression in a variety of forms appropriate to the interests and resources of the candidates who genuinely desire to teach writing. To learn ways to apply to the teaching of writing the insights and techniques provided by the candidate's own experiences with the writing process.

220 Proseminar in Literature (3) Fall, Spring

Prerequisite: Graduate standing plus completion of one English, one American, and one comparative literature course from the following group—English 142, 152, 173, 174, 181A, 181B, or consent of instructor. Selected problems emphasizing the relevance of literary study for contemporary life.

275. Proseminar in Recent American Literature (3)

Prerequisite: At least one upper-division course in American literature. To provide an understanding of twentieth century American culture and of the living tradition from which it stems through an examination of characteristic literary works. To equip the candidate with a wide perspective for evaluating the reading interests and needs of the present generation.

281. Proseminar in Literature and Human Values (3)

Prerequisite: At least two upper-division period or survey courses in literature. To provide a mature grasp of the ways in which the literature of other nations and times has dealt with human problems that have special relevance to the present generation. Directed both to teachers of the junior high school core curriculum and to high school teachers charged with teaching "World Literature." Supplementary consideration of relevant literary and historical works that are attractive to younger readers.

299. Graduate Project (3)

Prerequisite: At least one graduate course in English. To provide an opportunity for the investigation of a sizable problem in language or literature with the object of showing how its results can be utilized effectively in the high school classroom; results to be presented in a written report having clarity, order, and cogency of expression. Topic must be approved by instructor prior to enrollment.

FRENCH

(In the Division of Language Arts)

Staff: Bonhard.

BACHELOR'S DEGREE CURRICULUM

Major in French

Neither a nonteaching or teaching major is offered.

General Secondary Teaching Minor

See also general education requirements on page 52, ^{and} professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

French (Intermediate) 8 units

Upper Division

French 101AB—Oral and Written Composition 6 units

French 102AB—French Literature From Middle Ages to Twentieth Century 6 units

20 units

COURSES OF INSTRUCTION

101A-B Oral and Written Composition (3-3) Offered alternate years beginning Fall, 1955

Prerequisite: Intermediate French.

102A-B French Literature: The Middle Ages to the Twentieth Century (3-3)

Offered alternate years beginning Fall, 1954.

Prerequisite: Intermediate French, or French 101A or 101B.

199 Directed Individual Studies (1-3) Fall, Spring

Prerequisite: Offered only on petition. Petition must contain a digest of work already completed, of work proposed, and show how 199 is essential to this program of study. Students may enroll only if a faculty member is free to supervise the work.

GEOGRAPHY

(In the Division of Social Sciences)

Staff: Price (Department Head), Byron, Durrenberger, Lydolph, Nishi.

BACHELOR'S DEGREE CURRICULUM

Major in Geography

Geography involves study of the earth, its peoples, and their ways of inhabiting it. The major in geography is designed to fulfill the purposes both of a liberal education and of vocational preparation in geography or allied fields. Optional courses are recommended in accordance with the candidate's aims. See also page 52 for graduation requirements for the B.A. degree.

Lower Division

Elements of Geography <i>or</i> Economic Geography	6 units
Elements of Weather and Climate	3 units
Choose from basic courses in Geology and Anthropology	6 units
(Recommended course: Map Reading and Interpretation (2))	

Upper Division

Geography 102—Geomorphology <i>or</i>	3 units
Geography 110—Climatology	3 units
Geography 105—Cartography	3 units
Geography 121—Anglo-America	3 units
Geography 141—World Resources	3 units
Regional Geography. Select from list below	6 units
Geography 109—Geography of the Pacific Area (3)	
Geography 122—Geography of Latin America (3)	
Geography 123—Geography of Europe (3)	
Geography 124—Geography of Asia (3)	
Geography 131—Geography of California (3)	
Electives in Geography	6 units
Electives in related Natural and Social Sciences (with the approval of an adviser)	6 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in geography aimed at depth of understanding. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in geography.
2. Area of concentration
 - a. Social Science 250A
 - b. Approved graduate "200" courses in the field of geography. Graduate project not to exceed three units of credit may be included
 - c. Other approved courses in the field of geography; may be upper division "100" courses
 - d. Comprehensive written examinations in selected fields of geography

3. Approved courses outside the area of geography..... 6 units
 4. Other courses approved in advance by the adviser..... 9 units

COURSES OF INSTRUCTION

NOTE: Natural science (physical science) credit is given for Geography 102, 110, and 115, and natural science (elective) credit for 161. All other courses in geography except 105 are classified as social science.

Prerequisite: A basic geography course or consent of instructor. Exception: No prerequisite for Geography 101.

101 Survey of the Modern World (3) Fall, Spring

A regional survey of major cultural and economic features of the modern world. Emphasis is placed on matters of critical importance for understanding of current problems. Physical elements are introduced as needed. This course is intended primarily for candidates for teaching credentials.

102 Geomorphology (3) Fall

Identification and study of the surface features of the earth and their meaning. Local landforms will be observed on a field trip.

105 Cartography (3) Spring

Practice in the drawing of maps and other graphic devices. Lecture one hour, laboratory four hours.

109 Geography of the Pacific Area (3) Fall, Spring

A regional examination of the human and physical features which characterize the islands of the Pacific, Australia, and the Pacific rim; major stress upon geographic factors influencing contemporary events.

110 Climatology (3) Fall, Spring

The major climatic types of the earth, including their significance in the landscape and to man.

115 Physical Geography (3) Fall, Spring

The natural features of the continents, with emphasis on climate, landforms, soils, and plant life.

121 Geography of Anglo-America (3) Fall, Spring

Settlement and development of the regions of the United States, Canada, and Alaska.

122 Geography of Latin America (3) Fall, Spring

The development and character of the lands of Latin America.

123 Geography of Europe (3) Spring

The formation of the natural, cultural, and political regions of Europe and the Soviet Union.

124 Geography of Asia (3) Fall

A survey of the physical, economic, cultural, and political geography of China, Japan, Korea, India, Pakistan, and Southeastern Asia.

131 Geography of California (3) Fall, Spring

A regional study of California, including consideration of settlement and utilization of resources as topics of major interest.

141 World Resources (3) Fall, Spring

A study of the distribution and utilization of the various mineral, animal, and vegetable resources of the world.

161 Conservation of Natural Resources (3) Fall, Spring (See Conservation 161)**181 Political Geography (3) Spring**

Areal differentiation of the natural and cultural phenomena which affect the world's political organization.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance.

270 Studies in the Nature of Geography (3)

A seminar in the history, objectives, and methods of geography.

271 Studies in Regional Geography (3)

A seminar in regional analysis. Students will report on their studies on particular parts or phases of the general area chosen for the semester's topic.

280 Studies in Physical Geography (3)

A seminar in the nature, origin, and areal occurrence of the physical qualities of the land (climate, land forms, soils, and vegetation).

299 Graduate Project (3)

GOVERNMENT

(In the Division of Social Sciences)

Staff: Guild (Department Head), Black, Sandler, Warren.

BACHELOR'S DEGREE CURRICULUM

Major in Government

See also page 52 for graduation requirements for the B.A. degree.

There are four distinct types of majors in government, each representing a different objective, and the student should select the one which most nearly fits his vocational aims.

1. Pre-professional and professional training for entrance into government service as a career, on the federal, state, or local government levels, or for positions on the research or administrative staffs of quasi-public or endowed organizations.
2. Foundational training for entrance into a graduate school of law.
3. Foundational training for careers in the field of international relations—diplomatic service, staff of the United Nations, etc.
4. A general major, encompassing such ultimate objectives as teaching in junior colleges, entrance into politics, citizenship participation, liberal arts training, and pregraduate study.

Work-study credit is given to government majors serving as interns in governmental agencies in the Los Angeles area. In most instances these internships must be attained through civil service screening tests conducted by the respective governmental agency.

Lower Division

Lower division requirements are the same for each of the above indicated optional majors in government: six units of introductory political science.

Students electing pre-law (Option 2) are required to have completed a year of United States history, or English history, or history of western civilization (preferably one of the two former), and a year of accounting; students majoring in the international relations field (Option 3) are urged to have eight lower division units or equivalent knowledge in one foreign language.

Upper Division

Option 1—Government Service

Select from the following _____ 9 units

- Government 103—State and Local Government (3)
- Government 104—Municipal Government (3)
- Government 105—American Federal Government (3)
- Government 114—Public Opinion and Lobbies (3)
- Government 117—Government Controls in the American Economy (3)

Government 160—Principles of Public Administration	3 units
Government 163—Public Personnel Administration <i>or</i>	
Government 165—Principles of Employee Supervision	3 units
Mathematics 113—Elementary Statistical Methods	3 units
Select from courses numbered above 163	9 units

Option 2—Pre-Law

Social Science 150—Scientific Method and Applied Logic	3 units
Government 103—State and Local Government <i>or</i>	
Government 104—Municipal Government	3 units
Government 112—Political Theory <i>or</i>	
Government 113—American Political Thought	3 units
Government 157—Constitutional Law <i>or</i>	
Government 176—Administrative Law	3 units
Government 158—The Anglo-American Legal System	3 units
Business 185—Business and Government <i>or</i>	
Government 117—Government Controls in the American Economy	3 units
Government 160—Principles of Public Administration	3 units
Economics 110—Economics of the Business Firm	3 units
History 179—Constitutional History of the United States	3 units
English 106A—Pre-Professional Writing	3 units
Select from the following	6 units
Business 102, 103; Economics 171, 172, 190; English 170A, 170B; Government 105, 126; History 148, 175, 153AB; Mathematics 113; Philosophy 104; Psychology 110; Sociology 102, 163; Speech 110.	

Option 3—International Relations

Government 105—American Federal Government	3 units
Government 125—United States Foreign Policy	3 units
Select from the following	6 units
Government 126—International Law (3)	
Government 127—International Relations (3)	
Government 128—International Organization (3)	
Select from the following	6 units
Government 150—European Government (3)	
Government 151—Governments of Latin America (3)	
Government 152—Asiatic Governments (3)	
Government 160—Principles of Public Administration	3 units
History 178—Diplomatic History of the United States	3 units
Economics 106—Principles of International Trade	3 units
(Recommended: Upper division work in the foreign language begun in lower division)	

Option 4—General Government

Of the following six fields of Government, coverage of at least four fields is required, with a total of not less than 27 upper division units. The program pattern in each instance will be determined in consultation with the appropriate departmental adviser.

a. Public Administration

- Govt. 103—State and Local Government (3)
- Govt. 104—Municipal Government (3)
- Govt. 160—Principles of Public Administration (3)
- Govt. 163—Public Personnel Administration (3)
- Govt. 165—Principles of Employee Supervision (3)
- Govt. 166—Public Financial Administration (3)
- Govt. 168—Public Welfare Administration (3)

- Govt. 170—Public Relations in Government (3)
- Govt. 171—Governmental Report Writing (2)
- Govt. 172—Organization and Methods Analysis (3)
- Govt. 174—Introduction to City Planning (3)
- b. Comparative Government
 - Govt. 150—European Governments (3)
 - Govt. 151—Governments of Latin America (3)
 - Govt. 152—Asiatic Governments (3)
- c. International Relations
 - Govt. 125—United States Foreign Policy (3)
 - Govt. 126—International Law (3)
 - Govt. 127—International Relations (3)
 - Govt. 128—International Organization (3)
- d. Political Theory
 - Govt. 112—Political Theory (3)
 - Govt. 113—American Political Thought (3)
- e. Political Parties and Politics
 - Govt. 105—American Federal Government (3)
 - Govt. 114—Public Opinion and Lobbies (3)
 - Govt. 118—American Political Parties and Politics (3)
- f. Public Law
 - Govt. 117—Governmental Controls in the American Economy (3)
 - Govt. 157—Constitutional Law (3)
 - Govt. 158—The Anglo-American Legal System (3)
 - Govt. 176—Administrative Law (3)

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built upon the foundation of an undergraduate major in Government (or, as designated in some institutions, Political Science). See page 56 for the total general requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in government.
2. Area of concentration
 - a. Social Science 250A 3 units
 - b. Approved graduate "200" courses in the field of government. Graduate project not to exceed 3 units of credit may be included 9 units
 - c. Other approved courses in the field of government; may be upper division "100" courses 3 units
 - d. Comprehensive written examination in four selected fields of government.
3. Approved courses outside the area of government 6 units
4. Other courses approved in advance by the adviser 9 units

COURSES OF INSTRUCTION

Prerequisites: One year of university or college political science or consent of instructor. Exception: No prerequisites for Government 101, 103, 104, 105.

***101 American Institutions (3) Fall, Spring**

History and development of the American constitutional system and the ideals upon which it is based. This course meets the United States Constitution and California state and local government requirements. Not open to students who have completed an introductory course in American government.

†103 State and Local Government (3) Fall, Spring

The structures, functioning, and relationships of state, county, and local governments, with special reference to California.

†104 Municipal Government (3) Spring

Contemporary American municipalities and their relationships to other governmental jurisdictions, particularly state governments. Aspects of the California State Constitution with reference to such municipal subjects as home rule, referendum, initiative, recall, metropolitan government.

‡105 American Federal Government (3) Fall, Spring

The policy-making and administrative structures and operations of the Federal Government. Make-up of Congress; the electoral college; committee composition. Executive departments and agencies; regulatory commissions; government corporations.

112 Political Theory (3) Fall

Survey of socio-political thought from the time of Plato to the present, with emphasis upon modern contributions.

113 American Political Thought (3) Spring

Examination of political thinking in America from colonial time to contemporary United States; particular attention to political doctrines and ideals as expressed in political addresses and constitutional decisions.

114 Public Opinion and Lobbies (3) Spring

Tactics and aims of pressure groups, particularly lobbies, in the influencing of American public sentiment. Political significance of public opinion polls.

117 Government Controls in the American Economy (3) Spring

The role of government in such fields as anti-trust prosecution, fair trade practice enforcement, farm price supports, mortgage insurance, etc. Rise of regulatory commissions; administrative courts; licensing authorities; vocational and professional standards; inspection and permit services. Changing government concepts of the public interest and public welfare.

* Designates a course which satisfies the United States Constitution requirement and the California state and local government requirement.

† Designates a course which satisfies the California state and local government requirement.

‡ Designates a course which satisfies the United States Constitution requirement.

118 American Political Parties and Politics (3) Fall
The rise of American political parties, including third parties; party structure, operation, and control, with emphasis on political leadership.

125 United States Foreign Policy (3) Fall, Spring
Development of the theory and practice of American foreign policy, with emphasis on contemporary problems and procedures.

126 International Law (3) Fall
Progress and status of the law of nations; international adjudication; principles of national sovereignty; international agreements.

127 International Relations (3) Fall, Spring
The forces and motives influencing international politics and policies, with special attention to the United Nations and its current problems.

128 International Organization (3) Spring
Development of international organizations, historical and contemporary, with accent on the two major attempts in the twentieth century to achieve collective security and to prevent war.

150 European Governments (3) Fall
A survey of the political structures, institutions, problems, and trends of the governments of the major European countries.

151 Governments of Latin America (3) Fall
Political concepts, structures, and trends in the governments of Mexico, Brazil, Argentina, Chile, and others selected for study by the instructor.

152 Asiatic Governments (3) Spring
Analyses of the political institutions and problems of China, India, Japan, Indonesia, and the Philippines.

***157 Constitutional Law (3) Fall**
Basic principles of American constitutional law, and the role of the United States Supreme Court in our political and social development.

158 The Anglo-American Legal System (3) Fall
Development of our legal system from Anglo-Saxon and Roman roots to a case system of law and equity based on English and American common law, including political, social, and religious changes which are reflected in the law.

160 Principles of Public Administration (3) Fall, Spring
Analysis of the executive function in government; survey of the principles of administrative organization, personnel management, financial administration, administrative law, public relations. Problems and trends in government as a career.

* Designates a course which satisfies the United States Constitution requirement.

163 Public Personnel Administration (3) Fall

Growth of the merit system concept and development of the civil service; recruitment procedures and examinations; position classification; salary structures; retirement plans; in-service training; supervision; employee organizations.

165 Principles of Employee Supervision (3) Spring

Prerequisite: Consent of instructor. A series of discussions on government employee situations and problems from the point of view of the lower-level supervisor.

166 Public Financial Administration (3) Fall (Offered 1955-56)

Principles of governmental accounting and financial controls; budgeting; capital outlays; treasury functions; governmental purchasing; assessment practices; financial reporting.

168 Public Welfare Administration (3) Spring

The internal administration of government programs such as social security, child care, corrections, pensions. Operation of the grant-in-aid principle. Interagency relationships; problems of field coordination.

170 Public Relations in Government (3) Fall

Sound principles and effective media in informing the public on governmental services and programs. Public relations as a staff function. The roles of "information officer," "public service features," public information counters. Agency case histories.

171 Governmental Report Writing (2) Spring (Offered 1956-57)

Preparation of effective government reports; principles in the composition of letters, memoranda, directives, research reports and recommendations; progress reports; improvement of phraseology in government communications.

172 Organization and Methods Analysis (3) Fall (Offered 1955-56)

Special studies in governmental office and agency operations; organizational charting; work simplification; space and equipment layouts; preparation of administrative and procedure manuals; form requirements. Problems of control, delegation, and coordination.

174 Introduction to City Planning (3) Spring (Offered 1955-56)

Functions and administrative structures of city and regional planning departments. Composition and requisites of planning staffs. Zoning; master planning; urban redevelopment. Economic, legal, aesthetic, and social considerations in program formulation and execution.

176 Administrative Law (3) Spring

Growth of regulatory commissions; processes in administrative adjudication; duties and liability of public officers; appeal procedures; trends in regulation.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the government internships program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in government.

205 Seminar in Contemporary American National Government (3)

Case studies in the formulation and execution of policy, reflecting executive, legislative and judicial influences as well as the pressures exerted by interest-groups.

218 Seminar in Political Problems (3)

Special studies of party management, control, finance, campaign strategies, publicity and public relations. Problems of regional organization, blocs, sectionalism. Changing concepts of party responsibility, political fitness, political education. Case studies of political careers.

227 Advanced Studies in International Relations (3)

Examination of special problems in international diplomacy and politics, nationalistic drives and pressures, and programs for the attainment of international order.

260 Seminar in Public Administration (3)

Advanced studies in administrative organization—delegation, field coordination, accountability and controls. Values, ends, structures and arrangements in large scale governmental management in a democracy. Growth of the administrative corps. Trends in administrative research.

263 Advanced Problems in Public Personnel Administration (3)

Case studies of the more complicated personnel problems encountered in governmental agencies, including examination of the varying roles of boards, commissions, and official legislative bodies. New frontiers in personnel research and personnel legislation.

299 Graduate Project (3)

HEALTH AND SAFETY EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

Staff: Elliot (Department Head), Adams, Cake, Deeds, Ennen, Losee, Mochel,
Reeves, Warner.

BACHELOR'S DEGREE CURRICULUM

No major offered.

General Secondary Teaching Minor in Health Education

Designed for students training to become secondary school teachers. See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Fundamentals of Biology or Human Biology 3-4 units

Upper Division

H. & S.Ed. 113—Administration of School Health Programs 2 units

H. & S.Ed. 150—School Health Education 3 units

H. & S.Ed. 153—Principles of Community Health 2 units

Electives selected with the approval of the adviser from the fields of
mental health, family life education, nutrition, safety education, and
related fields 9-10 units

20 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

See also page 56 for the total requirements for the master of arts degree.

Prerequisite: Acceptable undergraduate preparation in the field of health and safety.

1. Required courses:

H. & S. Ed. 299—Graduate Project or Comprehensive Examination 0-3 units

H. & S. Ed. 220—Administration of Health Education 2 units

2. Additional health education "200" courses 5-8 units

3. Additional upper division or graduate courses in the Division of Health and Safety, Physical Education, Recreation and Athletics 5 units

4. Courses outside the Division of Health and Safety, Physical Education, Recreation and Athletics 6 units

5. Electives 9 units

COURSES OF INSTRUCTION

113 Administration of School Health Programs (2) Fall

Fulfills the state code requirements for a health and development credential and for a teaching minor in health education. Principles and practices of supervision and administration in school health programs.

121 First Aid (1) Fall, Spring

Standard Red Cross first aid.

122 Survival Training Education (2)

The analysis of civil defense organization. Personal survival training information. Methods of educating the public for and in emergency conditions. Latest developments and information in survival training education.

131 Methods of Teaching First Aid (2) Spring

Prerequisite: Current Red Cross certificate in standard first aid. American Red Cross course which qualifies students in Advanced and Instructor First Aid.

150 School Health Education (3) Fall, Spring

Prerequisites: Health education or equivalent. Responsibilities of the classroom teacher in school health education program. Cooperation with medical services, provision of healthful classroom environment, health instruction.

153 Principles of Community Health (2) Spring

Prerequisite: Health education or equivalent. Historical and modern efforts to meet health needs of the community.

154 Personal Health and Safety Problems (2) Fall, Spring

Fulfills state code requirements in health and safety education including statutory requirements, procedures, and organization and selection of materials.

174 Driver Education and Driver Training (2) Fall, Spring

A workshop type course which prepares students to meet the state code requirements for teaching driver education and driver training. Persons enrolled must be qualified operators of motor vehicles in California.

175 Safety Education (2) Fall, Spring

A course in safety education and accident prevention. Fulfills state requirement in public safety for graduation.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

220 Administration of Health Education (2) Spring

Prerequisite: Health Education 150 or consent of instructor. Bases for organization, content, and appraisal of health education programs.

221 Appraisal and Guidance in Health and Safety Programs (2) Fall

Prerequisite: Graduate standing. A course designed for teachers, counselors and health administrators. Methods are indicated through which these professional people can assist others in recognizing their health problems and in understanding the necessity of action. To sensitize professional workers to health programs, their functional organization, their importance and evaluation.

**222 Seminar in Health and Safety Education Research (3)
Fall, Spring**

Prerequisite: Graduate standing. Investigation and analysis of research in health and safety education.

299 Graduate Project (3) Fall, Spring

HISTORY

(In the Division of Social Sciences)

Staff: Catren (Department Head), Bonar, DeArmond, Fleming, Greenwalt, Guerant, Hansen, Jefferis, Rydell.

BACHELOR'S DEGREE CURRICULUM

Major in History

The history major may be undertaken to attain professional, academic, or cultural objectives; such objectives include: an understanding of the past and its contributions to the present, preparation for graduate work and advanced degrees, proficiency in historical method and historical information in preparation for appointment as specialists in business, in government, and in cultural institutions. See page 52 for graduation requirements for the B.A. degree.

Lower Division

United States History <i>or</i> History of the Americas	6 units
European History <i>or</i> History of England	6 units

Upper Division

Select from the following 6 units

An approved combination in Old World History.

Choices are 111A-B; 121A-B; 145, 146; 146, 147; 146, 148; 147, 148; 147, 149; 148, 149; 148, 158; 153A-B; 191A-B.

Select from the following 6 units

An approved combination in New World History.

Choices are: 159, 166; 162A-B; 172, 173; 173, 174; 174, 175; 174, 178; 175, 178; 175, 179; 177 and any course in the 170 or 180 groups; 178, 179; 178, 181; 181, 188; 181, 190; 188, 190.

History 197—History Proseminar (to be taken in the senior year) 3 units

History and other electives 12 units

Select 6 of the 12 units from related courses in the following fields:
anthropology, economics, geography, government, philosophy, sociology, or a national literature (e.g., English literature).

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in history aimed at depth of understanding. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in history.
2. Area of concentration
 - a. Social Science 250A 3 units
 - b. Approved graduate "200" courses in the field of history 9 units

- c. Other approved courses in the field of history; may be upper division "100" courses..... 3 units
- d. Comprehensive oral and written examinations in selected fields of history.
3. Approved courses outside the area of history..... 6 units
4. Other courses approved in advance by the adviser..... 9 units

COURSES OF INSTRUCTION

Prerequisite: One year of college history, or consent of instructor.
 Exceptions: No prerequisite for History 130 and 175.

111A-B The Ancient Mediterranean World (3-3)

A historical survey of the ancient Mediterranean world from earliest time to the reign of Constantine; main attention to the Greeks and Romans. Begins either semester.

121A-B The Middle Ages (3-3)

Europe from the fall of the Roman Empire to the fifteenth century, with emphasis upon cultural, social, and economic contributions to the modern era. Begins either semester.

130A-B-C-D Great Personalities (3-3-3-3)

No prerequisites. The sections of this course stand independently and are divided regionally. Biographical study of history through examination of the careers of representative men and women.

- A. Latin America (fall, 1954)
- B. Europe (spring, 1956)
- C. United States (fall, 1955)
- D. Asia (spring, 1955)

145 Europe: From the Renaissance to Waterloo (3) Fall

Survey of Europe from the close of the medieval period to the opening of the nineteenth century; politics, society, and institutions.

146 Europe: The Nineteenth Century (3) Fall, Spring

The hundred years from the end of the Napoleonic wars to the outbreak of World War I, with emphasis upon nationalism, international rivalries, and economic changes.

147 Europe: The Twentieth Century (3) Fall, Spring

The course of Europe in recent times; political, military, economic, and social developments from the inception of World War I to yesterday.

148 Economic History of Europe (3) Fall

Examination of the economic development of Europe in modern times, with special attention to the industrial revolution and its effect. (Same as Economics 172)

149 Russia and the Balkans (3) Spring

Russia, Poland, and the Balkan countries; their internal and international history in the nineteenth and twentieth centuries, emphasizing Soviet Russia in international politics.

153A-B Great Britain in Modern Times (3-3)

Main currents in the stream of British history from Tudor times to the present day. Particular attention to the modern period and to cultural and social matters. Begins either semester.

158 The British Empire (3) Fall

Political and economic development of the British Empire since the late eighteenth century, with major consideration given to the expansion of the colonial empire and the evolution of the modern empire-commonwealth.

159 Canada (3) Fall

Historical survey of the growth of Canada from French colony to contemporary British Dominion. Treatment both as a part of the British Empire and as one of the Americas.

162A-B Latin America (3-3)

History of the Americas south of the United States from earliest times to the present. The first semester covers the colonial period; the second semester deals with the years since the achievement of independence. Begins either semester.

166 Mexico (3) Spring

The course of the Mexican people and nation since the days of the Aztecs; particular attention to social and cultural matters and to the more recent national period.

***172 The United States: The Colonial Period (3) Fall**

History of the thirteen colonies from their European origins to the completion of American independence. Emphasis placed upon colonial life and problems, the revolution, and the early national period.

***173 The United States: The Nineteenth Century (3) Spring**

The evolution of the American people and Nation from Jefferson's administration to the war with Spain. Main topics include sectionalism, civil war and reconstruction, and industrialization.

***174 The United States: The Twentieth Century (3) Fall, Spring**

Political, economic, and social history of the United States in recent years; the Progressive Era, World War I, the "twenties," the New Deal, World War II, and postwar United States.

* Designates a course which satisfies the American History requirement.

***175 Economic History of the United States (3) Spring**

Historical survey of American economic development to the present, particularly industrialization and national legislation in the fields of industry and commerce. (Same as Economics 171.)

***177 Social History of the United States (3) Fall**

The development of America's social and cultural structure; the relationships and contributions to that structure brought about by changes in religions, education, music, art, drama, and architecture.

***178 Diplomatic History of the United States (3) Fall, Spring**

Historical analysis of the foreign relations of the United States from colonial backgrounds to the contemporary scene, with special attention to recent diplomatic problems.

***179 Constitutional History of the United States (3) Fall, Spring**

Prerequisites: Six units of American history, or six units of government, and consent of instructor. The Federal Constitution from the historical point of view. Major considerations are: the Constitutional Convention, and constitutional controversies and changes since John Marshall.

***181 The Westward Movement and the West (3) Fall, Spring**

Study of the advance and characteristics of the American frontier from colonial times through the nineteenth century and the development of the West in the past half century.

188 California (3) Fall, Spring

The political, economic, social, and intellectual history of California from Spanish times to the present, with emphasis upon current characteristics, problems and trends.

190 The Pacific Area (3) Fall, Spring

Synthesis of the historical development of eastern Asia, Oceania, and the American lands bordering the Pacific; analysis of the impact of the West upon the East, with special attention to the role of the United States and to contemporary problems of the Pacific.

191A-B The Far East (3-3)

Survey of China, Japan, and the Indies from ancient to recent times. Oriental culture, political and social developments, westernization, current trends, international politics. Begins either semester.

197 History Proseminar (3) Fall, Spring

Senior course: *Required* of all history majors. An introduction to historical method. This course will prepare the student for graduate seminar work in history; its utilization of historical method and bibliography will serve also to equip the history major for certain specialized positions in business, government, and cultural institutions.

* Designates a course which satisfies the American History requirement.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in history.

201 Historiography and Bibliography (3)

A study of the development of historical writing, with an examination of the works of representative historians and various philosophies of history.

274 Seminar in Recent United States History (3)

Discussion of selected topics relating to American cultural, economic, social, and political developments in the more recent national periods. Student's topical field is contained within the period 1865 to the present.

277 Studies in the Social History of the United States (3)

This seminar is an intensive study of America's social and cultural development—how our people lived and what affected their way of living.

281 Studies of the American West (3)

Discussion of methods and materials for research in the field of western history and the problems of the American frontier.

288 Studies in California (3)

Guided student research in the history of California.

299 Graduate Project (3)

HOME ECONOMICS

(In the Division of Fine Arts)

Staff: Graves, Chamberlain, Cornish, Miller. Part time: Burbank, Thomes.

BACHELOR'S DEGREE CURRICULA

Major in Homemaking

Designed for the student who desires intensive preparation for home and family life. See also page 52 for graduation requirements for the B.A. degree.

Lower Division

Elementary Clothing	3 units
Textiles	2 units
Food Preparation	3 units

Lower or Upper Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—Furnishing the Home	3 units
Home Economics 140—The Child	3 units
Home Economics 150—Organizing and Managing the Home	2 units

—
25 units

Upper Division Electives

Select from the following	11 units
Home Economics 102—Tailoring (2)	
Home Economics 131—Advanced Foods (3)	
Anthropology 105—Culture and Personality (3)	
Art 103A or B—Three-dimensional Design (2-2)	
Art 110—Art Appreciation for Teachers (2)	
Art 114—Furniture Design and Construction (3)	
Art 143A or B—Interior Design (2-2)	
Art 175—Costume Design (2)	
English 128—Interpreting Children's Literature (3)	
Music 103A or B—Music for Children (2-2)	
Sociology 145—Social Psychology (3)	
Sociology 158—Community Welfare Organization (2)	
Speech 120—Oral Interpretation (3)	

—
36 units

HOMEMAKING

General Secondary Teaching Major in Homemaking

Designed for the student who wishes to prepare for a career in teaching in the field of home economics. See also graduation requirements on page 52, and professional education requirements on page 116.

Lower Division

Elementary Clothing	3 units
Textiles	2 units
Elementary Nutrition	2 units
Food Preparation	3 units
Home Nursing	2 units
	<hr/>
	12 units

Upper or Lower Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 102—Tailoring	2 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—Furnishing the Home	3 units
Home Economics 131—Advanced Foods	3 units
Home Economics 140—The Child	3 units
Home Economics 141—Child Care Laboratory	1 unit
Home Economics 150—Organizing and Managing the Home	2 units
Home Economics 151—Home Living Experience	2 units

Upper Division Electives

Select from the following	3 units
Home Economics 130—Dietetics (3)	
Home Economics 132—Demonstration Techniques (3)	
Select from the following	5 units
Art 114—Furniture Design and Construction (3)	
Home Economics 122A-B—Interior Design (2-2)	
Home Economics 103—Costume Design (2)	
	<hr/>
	45 units

NOTE: When fulfilling science requirements in the general education program, credential majors should take six units in chemistry, biology, physics, psychology, or bacteriology. Students must complete H.E. 101 and H.E. 131 before doing student teaching.

Special Secondary Teaching Major in Homemaking

For courses leading to the special secondary teaching credential upon direct application to the State Department of Education, consult with advisers in the Home Economics Department. See also professional education requirements on page 118.

General Secondary Teaching Minor in Homemaking

Designed for the student who is a candidate for the general secondary credential and who wishes to prepare for a second teaching subject in this field.

Lower Division

Elementary Clothing	3 units
Food Preparation	3 units

Upper or Lower Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—Furnishing the Home	3 units
Home Economics 131—Advanced Foods	3 units
Home Economics 140—The Child	3 units
Home Economics 150—Organizing and Managing the Home	2 units
—	—
	26 units

Recommended Upper Division Electives

Home Economics 102—Tailoring (2)
Home Economics 103—Costume Design (2)
Home Economics 122A or B—Interior Design (2-2)
Anthropology 105—Culture and Personality (3)
Art 103A or B—Three-dimensional Design (2-2)
Art 114—Furniture Design and Construction (3)
English 180A or B—Literature and the Fine Arts (3-3)
Music 103A or B—Music for Children (2-2)
Sociology 145—Social Psychology (3)
Sociology 158—Community Welfare Organization (2)

Home Economics in Business Major**Lower Division**

Elementary Foods	3 units
Textiles	2 units
Household Chemistry	3 units
Typing	2-3 units
—	—
	10-11 units

Upper Division Core

Home Economics 111—Consumer Buying	3 units
Home Economics 131—Advanced Foods	3 units
Home Economics 132—Demonstration Techniques	3 units
Home Economics 150—Organizing and Managing the Home	2 units
—	—
	11 units

Upper Division Electives

Select from the following	12-15 units
Art 103A or B—Three-dimensional Design (2-2)	
Business 104—Principles of Marketing (3)	
Business 113—Office Organization and Management (3)	
Business 140—Principles of Advertising (3)	
Business 142—Salesmanship (3)	
Business 148—Public Relations Methods for Business (3)	
English 106A—Preprofessional Writing (3)	
Home Economics 101—Advanced Clothing (3)	
Home Economics 121—Furnishing the Home (3)	
Journalism 145—Feature Article Writing (3)	
Journalism 155—Photo-Journalism (3)	
Speech 101—Television Techniques (3)	

33-37 units

COURSES OF INSTRUCTION**100 Simplified Dressmaking (3) Fall, Spring**

No prerequisite. For nonmajors. An overview of basic techniques and the use of effective shortcuts of value to the homemaker.

101 Advanced Clothing (3) Fall, Spring

Prerequisite: Elementary clothing. Advanced garment construction involving principles of fabric selection and design, and the necessary skills in working with wool, silk, and synthetic fibers. Consideration of the effect on individual personality of appropriate costume selection. Two 3-hour labs combined with lecture.

102 Tailoring (2) Fall, Spring

Prerequisite: H.E. 101. The principles, processes, and skills involved in women's tailoring. Construction of a wool suit or coat. Two 2-hour labs combined with lectures.

103 Costume Design (2) Fall

Development of necessary skills in the designing of costumes for stage, street and other occasions. Involves principles used in industry. Emphasis upon functional design.

111 Consumer Buying (3) Fall

The evaluation of marketed goods and services and their contribution to desired goals of family living. Consideration of expenditures for essentials and luxuries.

115 Marriage and Family Relationships (3) Fall, Spring

Interpersonal relationships of family members and the resulting effects on the individual, family group, and the community. Problems involved in courtship, marriage, and establishing the home.

121 Furnishing the Home (3) Fall, Spring

A study of the home, its decoration and furnishings, based upon family needs, income, and interests. Laboratory experience with colors, fabrics, and construction of accessories. Field trips.

122A-B Interior Design (2-2) A—Fall, B—Spring

Prerequisites: One semester of design or H.E. 121. The elements of visual expression and design as related to contemporary concepts of family needs.

130 Dietetics (3) Fall

Prerequisites: Elementary Nutrition and Food Preparation. Principles involved in modification of diets to meet specific needs. Comprehensive study of diets commonly used in hospitals. Preparation for work in a hospital diet kitchen.

131 Advanced Foods (3) Fall, Spring

Prerequisites: Household Chemistry or consent of instructor. Advanced study of principles and techniques involved in the selection, preparation, and preservation of foods used in the home. One hour lecture, two 3-hour labs.

132 Demonstration Techniques (3) Spring

Practice in techniques involved in promotional and educational demonstrations. Field experience through cooperation with local business and utility companies. One hour lecture. Two 2-hour labs.

140 The Child (3) Fall, Spring

Prenatal care of the expectant mother. Care and training of the child from infancy to preadolescence to insure maximum physical and emotional well-being.

141 Child Care Laboratory (1) Fall, Spring

Active participation in nursery schools and child care centers, followed by evaluation. Open only to credential majors.

150 Organizing and Managing the Home (2) Fall

Study of ways in which the efficient use of time, energy, and money in household management and the selection, care, and use of household equipment can contribute to enriched family living.

151 Home Living Experience (2) Fall, Spring

Prerequisites: H.E. 11, 121, 131, 150. Group living experiences under supervision in the home management house. Practical application of basic principles of homemaking.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Special Problems in Home Economics (1-3) Spring, Fall

Approval of the staff is required. Independent study of home economics problems designed to meet the individual needs and interests of the major students with upper division standing.

COURSES OF INSTRUCTION

INDUSTRIAL ARTS

(In the Division of Technical Sciences)

Staff: Nihart (Department Head), Lappin, Roysher (part time), Hoffman, Thomson.

BACHELOR'S DEGREE CURRICULA

Major in Industrial Arts

Students desiring to receive the A.B. degree with a major in industrial arts may outline this major with the advice and counsel of the department adviser.

Special Secondary Limited Credential in Industrial Arts Education

Students with high school graduation or equivalent; with five years of acceptable trade experience in an approved field, and the passing of the approved trade tests, may upon the completion of 60 hours of acceptable teacher training courses apply to the State Board of Education for the Special Secondary Limited Credential in Industrial Arts Education.

Special Secondary Teaching Major in Industrial Arts

See also graduation requirements on page 52, and professional education requirements on page 118.

Designed to prepare teachers for elementary and secondary school positions.

Ordinarily Industrial Arts is offered as a teaching major. Unless authorized by the department, the student must qualify for a Special Secondary Credential in Industrial Arts as a part of major department requirement.

The following sequence of courses is listed as a guideline to students wishing to secure this credential. Upon completion of the required courses, the student may secure his credential upon direct application to the State Department of Education.

Lower Division

Woodwork	3 units
General Metalwork	3 units
Industrial Drawing	3 units
Electricity—Radio	3 units
Graphic Arts	3 units

Upper Division

Ind. Arts 105—Industrial Arts Orientation	2 units
Ind. Arts 106—Industrial Arts Curriculum Materials	2 units
Select from the following—at least two areas must be selected	25 units

Woodwork Area

- Ind. Arts 110AB—Cabinetmaking and Carpentry (3-3)
- Ind. Arts 111—General Woodwork for Teachers (3)

General Metal Area

Ind. Arts 170AB—General Metal (Advanced) (3-3)

Ind. Arts 176AB—Metalsmithing—Forging (2-2)

Ind. Arts 171—General Metalwork for Teachers (3)

Industrial Drawing

Ind. Arts 121AB—Machine Drawing (3-3)

Ind. Arts 122AB—Architectural Drawing (3-3)

Electricity—Radio Area

Ind. Arts 150AB—Electricity—Radio (Advanced) (3-3)

Ind. Arts 151—General Electricity and Radio for Teachers (3)

Graphic Arts Area

Ind. Arts 141—Graphic Arts (Advanced) (3)

Ind. Arts 142—Graphic Arts (Advanced) (3)

Ind. Arts 143—Graphic Arts Special Processes for Teachers (3)

Handicraft Area

Ind. Arts 130—Handicrafts in the Secondary Schools (3-3)

Recommended Electives

Ind. Arts 104—Construction of Teaching Aids (3)

Ind. Arts 113—Introduction to Industrial Arts Design (3)

Ind. Arts 114—Furniture Design and Construction (3)

General Secondary Teaching Major

The industrial arts requirements for the general secondary credential in industrial arts are the same as those for the special secondary credential. See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field and a graduate year including additional professional education courses are required for the general secondary credential.

General Secondary Teaching Minor

Ind. Arts 113—Introduction to Industrial Arts Design	3 units
Ind. Arts 105—Industrial Arts Orientation or Ind. Arts 106	2 units
Six units in each of two industrial arts areas (there must be 3 units of upper division work in each of the shop areas selected to meet this requirement)	12 units
Select from a third shop area (may be upper or lower division)	3 units
	<hr/> 20 units

COURSES OF INSTRUCTION**104 Construction of Teaching Aids (3) Spring**

The construction of teaching aids for shop class use, such as cut-away models and mock-ups, assignment boards, checking devices for course coverage, blown-up models, electrical identification panels, procedure boards and material specimens.

105 Industrial Arts Orientation (2) Fall

The background and philosophy of practical education in the United States and foreign countries. Its present place and function in the total program of elementary and secondary education.

- 106 Industrial Arts Curriculum Materials (2) Spring**
The development and use of instructional materials for different industrial arts areas. The preparation of objective tests, instruction sheets, and courses of instruction, through individual and group participation. Study of shop planning.
- 110A-B Cabinetmaking and Carpentry (3-3) Fall, Spring**
Basic cabinet and furniture construction as used in period and contemporary styles. Operation of woodworking machines and the use of hand tools. Cabinet detailing and stock billing. House framing construction and nomenclature. Safety will be emphasized.
- 111 General Woodwork for Teachers (3) Spring**
Review of tool skills and machine operations with emphasis on teaching techniques. The development of sample projects suitable for use in secondary school shop classes. This course should be taken concurrently with directed teaching.
- 113 Introduction to Industrial Arts Design (2) Fall**
Basic skills and appreciation of industrial arts. Lecture, field trips and laboratory. Students will design and originate industrial arts projects which will be carried to conclusion during the laboratory period.
- 114 Furniture Design and Construction (3) Spring**
Appreciation of good functional furniture design and experiences in designing and constructing furniture. Origination of good methods of teaching furniture design and construction. Lectures, field trips and study of outstanding examples of good furniture design. Recommended for industrial arts teachers.
- 121A-B Machine Drawing (3-3) Fall, Spring**
Sketching of machine parts, principles of mechanical motion, gears, cams, belts and pulleys. Detail and assembly drawings, aircraft details and production illustration.
- 122A-B Architectural Drawing (3-3) Fall, Spring**
Fundamentals of architectural drawing, conventions, electrical plumbing symbols, sections, frame construction, building codes and ordinances. Home planning—traditional and contemporary styles. Drawing and printing a complete set of plans for a single family dwelling, and writing a set of basic specifications covering these plans is required.
- 130A-B Handicrafts in the Secondary Schools (3-3) Fall, Spring**
Basic skills and understanding which enable the junior high school teacher to provide worthwhile craft experience in keeping with the growth and development characteristics of the junior high school student. Work in plastics, leather tooling and carving, gimp braiding, wood carving, stick reed, paper enrichment, and other craft materials and processes.

141 Graphic Arts (Advanced) (3) Fall

Application of typographical principles is provided through individual projects. Problems in job, periodical, and book composition, together with imposition, lock-up, and limited instruction in press work according to student abilities and interests, provide a broad basis of study. Historic, conventional, and contemporary styles in typography are explained.

142 Graphic Arts (Advanced) (3) Spring

Prerequisite: Ind. Arts 141. The study of typography is continued with instruction based upon the student's ability and progress. Additional instruction in press work, linotype and pamphlet bindery techniques is offered.

143 Graphic Arts Special Processes for Teachers (3) Spring

The development of sample projects suitable for use in secondary school shop classes. Includes silk screen, rubber stamp, linoleum block, bookbinding, etc. Teaching techniques will be stressed. This course should be taken concurrently with directed teaching.

150A-B Electricity-Radio (Advanced) (3-3) Fall, Spring

Emphasis on radio, sound, television and electronics. Opportunity will be given for practice in radio construction and repair together with the use of a variety of electrical testing instruments. Safety instruction will be given special attention.

151 General Electricity and Radio for Teachers (3) Spring

Review of the fundamental principles of electricity and radio with emphasis on teaching techniques. The development of sample projects suitable for use in secondary school shop classes. This course should be taken concurrently with directed teaching.

170A-B General Metal (Advanced) (3-3) Fall, Spring

Comprehensive training in machine shop practice, wrought metal, metal casting, welding and sheet metal taught in a limited general shop. The class will be conducted as in junior and senior high school shops with all activities going on simultaneously. Safety will be emphasized.

171 General Metalwork for Teachers (3) Spring

Review of the various metalworking processes with emphasis on teaching techniques. The development of sample projects suitable for use in secondary shop classes. This course should be taken concurrently with directed teaching.

176A-B Metalsmithing—Forging (2-2) Fall, Spring

Beginning and advanced techniques of forging metal; forming of flatware, decorative sections, handles, and special applications. (Same as Art 176A-B.)

198 Field Assignment and Reports (1-2) Fall, Spring

Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

JOURNALISM

(In the Division of Language Arts)

Staff: Borders, Scott, Williams.

BACHELOR'S DEGREE CURRICULUM

Baccalaureate Major in Journalism

See page 52 for additional graduation requirements for the B.A. degree.

Lower Division

Collecting and Writing News 6 units

Upper Division

Select from the following 3 units

Speech 155—Television Techniques (3)

*Journalism 130A—News Editing (3)

*Journalism 130B—News Editing (3)

Journalism 160—Industrial Magazine Publishing (3)

Journalism 192—Radio and Television Continuity Writing (3)

Select from the following 4 units

*Journalism 138—Typography and Mechanics of Newspapers (4)

Journalism 155—Photo-Journalism (3)

Art 133A—Advertising Design (2)

Art 133B—Advertising Design (2)

Art 190A—Industrial Graphics (2)

Art 191A—Catalog Illustration (2)

Select from the following 3 units

*Journalism 140—History and Philosophy of Journalism (3)

Government 103—State and Local Government (3)

Government 104—Municipal Government (3)

Government 114—Public Opinion and Lobbies (3)

Government 170—Public Relations in Government (3)

Select from the following 3 units

Business 104—Principles of Marketing (3)

*Journalism 150—Contemporary Editorial Problems (3)

Economics 100—Economics of Industry (3)

Economics 112—Development of Economic Thought (3)

Economics 190—Current Economic Problems (3)

Select from the following 3 units

Business 140—Principles of Advertising (3)

Business 141—Advanced Advertising (3)

Business 148—Public Relations Methods for Business (3)

*Journalism 171—Newspaper Advertising (3)

Home Economics 111—Consumer Buying (3)

Home Economics 115—Marriage and Family Life (3)

Journalism 190—Press and World Affairs 2 units

Journalism 191—Law of the Press 2 units

Select from the following at least 2 units

English 106A—Preprofessional Writing (3)

English 106C—Short Story Writing (2)

*Journalism 196—Special Projects in Journalism (2)

Journalism 198—Field Assignment and Reports (2)

Speech 110—Public Speaking (3)

English 185—Philosophy of Literature (3)

Language Arts 197—Language Arts and the Democratic Tradition 2 units

* Normally these courses are recommended for the major unless similar courses from other colleges have been completed in lower division.

Teaching Major in Journalism

No teaching major is offered in the field of journalism exclusively. Students interested in a composite-field teaching major which includes journalism should refer to page 195, where the Language Arts Major is outlined.

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

See "Language Arts," page 195.

COURSES OF INSTRUCTION

106A Preprofessional Writing (3)
(See English 106A)

106C Short Story Writing (2)
(See English 106C)

130A-B News Editing (3-3) A—Fall; B—Spring

Prerequisites: Two semesters of collecting and writing of news or equivalent, or consent of instructor. Techniques of copyreading and headline writing, theories of news selection and makeup, examination of newspaper editorial practice.

138 Typography and Mechanics of Newspapers (4) Spring

A study of the techniques of publishing, including typography, typesetting, photoengraving, printing methods and machines. A background for understanding and supervising printing problems. (Formerly 3 units.)

140 History of Journalism (3) Fall

Study of the development of journalism, particularly in the United States, with an introduction to the important papers and personalities. Development of freedom of the press with consideration of its responsibilities under law.

145 Feature Article Writing (3) Spring

Open to all upper division students and to sophomores who have completed two semesters of collecting and writing of news, and one semester of copyreading and headline writing, or their equivalents. Deals principally with the writing of articles for the Sunday feature section of the newspaper and for trade and regional magazines. Analysis of the requirements of all types of publications.

150 Contemporary Editorial Problems (3) Fall

Prerequisite: Collecting and writing of news or equivalent, or consent of instructor. An examination of current editorial practice to determine the philosophy and social attitudes of present day publishers. Integrates the broad field of sociology and philosophy with journalism.

155 Photo-Journalism (3) Spring

A basic course in news photography, including Speed Graphic camera, flash, exposure, development and printing. Evaluating the finished news picture. Cameras and dark rooms are provided, but each student must furnish a minimum of supplies.

160 Industrial Magazine Publishing (3) Fall, Spring

Practical, how-to-do course in the editing and business management of the house organ and industrial magazine, stressing format, copy, illustration, and promotion. Good for the beginner or as a sound refresher course for the working editor.

164J High School Journalism (2) Spring

Prerequisite: Consent of instructor. Theory and technique of advising school newspaper and yearbook staffs. Relation of staff assignments to classroom instruction. Designed for credential candidates in Education, English, and Language Arts who may supervise school publications. Practice in rating the quality of secondary yearbooks and newspapers. Not a methods course, as emphasis is on subject field skills.

170 Newspaper Management (3) Spring

Analysis of the economy, organization and operation of daily and weekly newspapers. Newspaper correspondence. Printshop problems, circulation, advertising, and promotion. Newspaper analysis and community survey.

171 Newspaper Advertising (3) Fall

Instruction and practice in preparation of art and copy for advertising. Study of mat services. Relation of advertising to the newspaper as a whole.

190 The Press and World Affairs (2) Spring

Comparative world journalism with an examination of sources of news from various capitals. Analysis of propaganda. Comparative study of the four streams of news: local, state, national, and international. Foundations of democracy among an informed electorate.

191 Law of the Press (2) Fall

Prerequisite: Senior standing or consent of instructor. Chiefly a study of the law of libel. Consideration of the right of privacy, contempt of court, freedom of the press, copyright, statutory limitations, postal regulations and the right to print news of public affairs. Privileged matter under law.

192. Radio and Television Continuity Writing (3) Fall

A course which covers the analysis and preparation of local news and commercials, musical introductions and special news features for radio and television.

196A-B-C-D Special Projects in Journalism (1-2) Fall, Spring

Prerequisite: Consent of instructor. Recommended for members of the *College Times* staff, the *Pitchfork* staff, and the *Statement* staff. One hour class plus three hours additional supervised activity weekly. Students who work on a publication which appears only once a year may register for a maximum of one unit per semester. (Formerly 2-2-2-2 units.)

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

220 Proseminar in Journalism (3)

Combines intensive training in advanced journalistic writing at the graduate level, and study of outstanding contemporary publications and the contemporary publication field. Materials are leading contemporary magazines, pocket reprints of full length works, and library editions of works reprinted from magazines. All will be selected on these bases: (1) demonstrated significance and appeal to large audience masses; (2) contemporary documentary relevance; (3) intrinsic merit of writing.

LANGUAGE ARTS

(In the Division of Language Arts)

Staff: Faculty from cooperating disciplines within Language Arts Division.

BACHELOR'S DEGREE CURRICULA

Major in Language Arts

A nonteaching major is not offered.

General Secondary Teaching Major

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

This broad field major in language arts is a functionally organized composite program for students training to become secondary school teachers.

Core Requirements: To insure familiarity with the practical contributions each of the language arts can make to a broad field teaching major, to provide actual experience in the functional integration of courses into a common program, and to demonstrate the importance of broad field instruction at the secondary level, all students preparing for teaching majors in this field take a common core of lower division and upper division courses.

Lower Division

Survey of English Literature to 1700 3 units

Survey of English Literature since 1700 3 units

Upper Division—Core Requirements

English 104—Grammar Review 2 units

Select from the following 3 units

English 121—Interpreting Fiction (3)

English 123—Interpreting Poetry (3)

English 130A—High School Composition (3) *

Select from the following 3 units

English 130B—High School Literature (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

English 170B—Masters of American Literature 1860-1950 (3)

Speech 164D—High School Dramatics 2 units

Journalism 164J—High School Journalism 2 units

Language Arts 164M—Mass Communication Arts 2 units

Speech 164S—High School Speech Arts 2 units

Language Arts 197—Language Arts and the Democratic Tradition 2 units

Core Supplements: When the core requirements are substantially completed, each student takes further directed training in the field of his primary teaching interest. With the approval of his major adviser, the student supplements his core program by taking at least six additional units in one of the following options:

* NOTE: The credential requirements in Language Arts include one approved course in composition. Students who have not fulfilled this requirement should elect English 130A.

Drama Supplement

- Select from the following 6 units
- Speech 150A—Principles of Directing (3)
 - Speech 150B—Principles of Directing (3)
 - Speech 112A—Advanced Acting (3)
 - Speech 112B—Advanced Acting (3)

Journalism Supplement

- Select from the following 6 units
- Journalism 130A—News Editing (3)
 - Journalism 130B—News Editing (3)
 - Journalism 140—History of Journalism (3)

Literature Supplement

- English 117J—Interpreting Shakespeare 3 units
- Select new work from the following 3 units
- English 158—The Romantic Age (3)
 - English 160—The Victorian Age (3)
 - English 170B—Masters of American Literature 1860-1950 (3)
 - English 173—New England Renaissance (3)
 - English 181A—Contemporary World Prose (3)

Speech Supplement

- Language Arts 100B—Oral Expression 3 units
- Select from the following 3 units
- Speech 120—Oral Interpretation (3)
 - Speech 134—Introduction to Speech Therapy (3)

Graduate (Fifth Year)

Guided Electives: With the approval of his assigned graduate adviser, each student working for a teaching credential in the broad field major of Language Arts selects a minimum of six units in drama, English, journalism, language arts, or speech. These courses are chosen to meet actual placement requirements in the student's proposed teaching field. Often these courses may be in the area of the student's undergraduate core supplement, provided additional work in such an area is relevant to his teaching objective.

- Select with approval of graduate adviser from the following suggested courses 6 units
- Speech 220D—Proseminar in Dramatic Arts (3)
 - English 200—Project Writing (2)
 - English 220—Proseminar in Literature (3)
 - Language Arts 220—Proseminar in Communication Problems (3)
 - Speech 215—Performance (2)
 - Speech 220S—Proseminar in Speech Arts (3)

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing other college requirements for that degree have been satisfied. The credential requirements in Language Arts include one approved course in composition.

General Secondary Teaching Minor

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

From the following courses	3 units
Social Aspects of Mass Communication	
Survey of English Literature	
Collecting and Writing News	
Elements of Public Speaking	

Upper Division

Select from the following	3 units
English 121—Interpreting Fiction (3)	
English 123—Interpreting Poetry (3)	
English 130A—High School Composition (3)	
Select from the following	3 units
English 130B—High School Literature (3)	
English 158—The Romantic Age (3)	
English 160—The Victorian Age (3)	
Speech 164D—High School Dramatics	2 units
Journalism 164J—High School Journalism	2 units
Language Arts 164M—Mass Communication Arts	2 units
Speech 164S—High School Speech Arts	2 units
Select from the following	3 units
English 170B—Masters of American Literature 1860-1950 (3)	
English 173—New England Renaissance (3)	
English 181A—Contemporary World Prose (3)	
	20 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

See page 56 for the total requirements for the master of arts degree.

1. Prerequisites:

Undergraduate preparation: The normal prerequisite for entry upon the master of arts program in language arts is a baccalaureate major in English, foreign language, language arts, or speech. The graduate faculty will, however, consider applications from students who can meet all course prerequisites, and who have completed at least 24 units of approved upper division work in language arts fields directly related to their teaching objectives.

- | | |
|--|----------|
| 2. Select from the following | 12 units |
| Speech 220D—Proseminar in Dramatic Arts (3) | |
| English 220—Proseminar in Literature (3) | |
| Journalism 220—Proseminar in Journalism (3) | |
| Language Arts 220—Proseminar in Communication Problems (3) | |
| Speech 220S—Proseminar in Speech Arts (3) | |
| 3. Select with the approval of graduate adviser | 3 units |
| Graduate (and selected upper division) courses in the language arts related to student's teaching objective. | |
| 4. Outside the field of language arts | 6 units |
| 5. Electives | 9 units |
| 6. Oral conference prior to candidacy and final comprehensive examination. | |

COURSES OF INSTRUCTION

100A Written Expression (3) Fall, Spring

Prerequisite: One semester of freshman composition, grade of "C" in English 99, or junior standing. A junior level course in which the prin-

ciples of grammar, rhetoric, and semantics are applied to practical problems in written communication. Begins with rapid review of composition problems, and continues with regular practice in reading, writing, speaking, and listening.

100B Oral Expression (3) Fall, Spring

Prerequisite: One semester of freshman speech, or junior standing. A junior level course in which the techniques of group discussion are emphasized. Begins with rapid review of speech problems, and continues with regular practice in such procedures as panels, staff conferences, forums, public hearings, symposia, and round tables. Opportunities provided for individual leadership. Includes regular practice in reading, writing, speaking, and listening.

104 Grammar Review (2) Fall, Spring

Register for English 104.

130A High School Composition (3) Fall

Register for English 130A.

130B High School Literature (3) Spring

Register for English 130B.

164D High School Dramatics (2) Spring

Register for Speech 164D.

164J High School Journalism (2) Spring

Register for Journalism 164J.

164M Mass Communication Arts (2) Fall

Educational importance of motion pictures, radio, and television in the school and home. Includes extended practice in comparative analysis and evaluation of most of the mass communication arts. Not a methods course, as emphasis is on subject field skills.

164S High School Speech Arts (2) Fall

Register for Speech 164S.

197 Language Arts and the Democratic Tradition (2) Fall, Spring

Prerequisite: Second semester senior standing. Role of the language arts in democratic life in terms of the literature which has mirrored, analyzed, and disseminated the major philosophical concepts of democracy. Reading from significant novels, essays, poems and other language arts forms within their cultural and historical contexts.

GRADUATE COURSES

220 Proseminar in Communication Problems (3)

Prerequisite: Graduate standing plus completion of English 130A. Selected problems related to the teaching of communication skills.

MATHEMATICS

(In the Division of Natural Sciences)

Staff: Urner (Adviser), Jacobs. Part time: Herrera.

BACHELOR'S DEGREE CURRICULA

Major in Mathematics

Designed for students who plan to pursue advanced work in mathematics or accept employment in industry or government work involving mathematics. See page 52 for graduation requirements for the B.A. degree.

Lower Division

Basic courses in Mathematics up to and including integral calculus... 12-20 units
(Duplicate courses or courses on high school level taken in the junior college are not acceptable.)

Upper Division

Select from the following..... 16-24 units

- Mathematics 107—Introduction to Modern Geometry (3)
- Mathematics 108—Theory of Algebraic Equations (3)
- Mathematics 109—Topics in History of Mathematics (3)
- Mathematics 110—Overview of Secondary Mathematics (3)
- Mathematics 112—Third Course in Calculus (3)
- Mathematics 116—Differential Equations (3)
- Mathematics 117AB—Numerical Calculus (3)
- Mathematics 121AB—Advanced Calculus (3-3)
- Mathematics 130—Modern Algebra (3)
- Mathematics 131AB—Mathematical Statistics (3-3)

General Secondary Teaching Major

Designed for students who plan to become secondary teachers. See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field is also required.

Lower Division

Basic courses in mathematics up to and including integral calculus.
(Duplicate courses or courses on the high school level taken in the junior college not acceptable)..... 12-20 units

Upper Division

- Mathematics 107—Introduction to Modern Geometry..... 3 units
- Mathematics 108—Theory of Algebraic Equations..... 3 units
- Mathematics 109—Selected Topics in History of Mathematics..... 3 units
- Mathematics 110—Overview of Secondary Mathematics..... 3 units

Upper Division—Continued

Select from the following	4-12 units
Mathematics 112—Intermediate Calculus (3)	
Mathematics 116—Differential Equations (3)	
Mathematics 117AB—Numerical Calculus (3-3)	
Mathematics 121AB—Advanced Calculus (3-3)	
Mathematics 130—Modern Algebra (3)	
Mathematics 131AB—Mathematical Statistics (3-3)	

36 units

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing other requirements for the degree have been met.

General Secondary Teaching Minor

Designed for students who plan to become secondary teachers. See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required.

Lower Division

Basic courses in mathematics which satisfy prerequisites for upper division courses 12-14 units

Upper Division

Courses approved by adviser 6-8 units

20 units

COURSES OF INSTRUCTION**107 Introduction to Modern Geometry (3) Fall**

Prerequisite: Introduction to Mathematical Analysis or equivalent. A study of some of the synthetic geometry which has been developed since the time of Euclid, followed by a brief survey of non-Euclidean geometry.

108 Theory of Algebraic Equations (3) Spring

Prerequisite: Calculus. Complex numbers, properties of polynomials, with especial reference to the field concept; equations in the fields of rational numbers, real numbers. Elimination, resultants; algebraic extensions of a field, cubic equations, constructability problems.

109 Selected Topics in the History of Mathematics (3) Fall

Prerequisite: Calculus or equivalent. This course traces the development of fundamental concepts and techniques in the fields of algebra, geometry and trigonometry.

110 Overview of Secondary Mathematics (3) Spring

Prerequisite: Calculus. Designed especially for prospective teachers of secondary mathematics, the course undertakes a critical study of certain segments of the material. It provides excursions beyond the scope of this material, for the purpose of furnishing a richer background and an inspiring point of view.

112 Intermediate Calculus (3) Fall

Prerequisite: Calculus. Solid analytic geometry, functions of several variables, multiple integration and applications.

113 Elementary Statistical Methods (3) Fall, Spring

Prerequisite: One year of algebra. The fundamental methods of statistics—not a course in statistical theory. It is designed to provide a background for work in the various fields of application, such as business, education, psychology, and sociology. Topics studied include measures of central tendency, measures of dispersion, normal distribution, correlation, sampling, methods of comparison of sampling.

116 Differential Equations (3) Fall

Prerequisite: Calculus. A first course in differential equations emphasizing their application in science and engineering. An introductory treatment of the Laplace transformation is included.

117A Numerical Calculus (3) Fall

Prerequisite: Calculus. Primarily a course in applied mathematics; is designed to bridge the gap between classroom mathematics and such applications as the calculations in the aircraft industry or in actuarial work. Includes solution of equations (including methods of approximation), interpolation, numerical integration, numerical solution of differential equations. (Formerly Mathematics 117.)

117B Numerical Calculus (3) Spring

Prerequisite: Calculus. A continuation of 117A, but may be taken before 117A. Includes finite differences, orthogonal polynomials, least squares, harmonic analysis, smoothing of data.

121A Advanced Calculus (3) Fall

Prerequisite: Calculus. An extension of the techniques and ideas of analysis into higher fields essential to more advanced or graduate work. Special emphasis on applications to science and engineering. Includes vector analysis, and an advanced study of functions of several variables. (Formerly Mathematics 121.)

121B Advanced Calculus (3) Spring

Prerequisite: Mathematics 121A or equivalent. A continuation of Mathematics 121A. The principal topics are infinite series and functions of a complex variable. (Formerly Mathematics 122.)

130 Modern Algebra (3) Spring

Prerequisite: Mathematics 108. An introduction to some of the principal concepts of modern algebra, including integral domains, groups, rings, and fields, as well as vector spaces and matrices.

131A Introduction to Mathematical Statistics (3) Spring

Prerequisite: Calculus or equivalent. A basic course in the theory and application of statistical methods. Theoretical and empirical frequency distributions of one or two variables. Large and small sample theory. Correlation.

131B Introduction to Mathematical Statistics (3) Fall

Prerequisite: Mathematics 131A. Nonparametric methods. Testing "goodness of fit." Testing statistical hypotheses. Design of experiments.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

MUSIC

(In the Division of Fine Arts)

Staff: Snyder (Department Head), Baxter, Beckstead, Cook, Griffith, Leidig, Mullins, Timmerman, Zack.

BACHELOR'S DEGREE CURRICULA

See also page 52 for graduation requirements for the B.A. degree.

Curricula in music are designed for (1) those seeking one of the several teaching credentials; (2) those who are preparing for a professional career in performance, arranging, composition, or writing; (3) those who have avocational interests in music; and (4) those who seek experiences which will extend and enrich their general cultural background. Two patterns for the fulfillment of degree requirements are offered, one satisfying the requirements for the special or general secondary credential and one providing for considerably more freedom of election for those students motivated by musical interests other than teaching in the public schools.

Special Secondary Teaching Credential

Designed for those who expect to teach music in the public elementary or secondary schools. See also the professional education requirements on page 118.

Lower Division

Solfege	6 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	4 units
	—
	20 units

Certain courses taken in the lower division in excess of the above minimum may be accepted for equivalent upper division requirements.

Upper Division

Music 105A-E—Instruments	4 units
*Music 114—Functional Piano for Music Education Majors	1 unit
Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
Music 159A—Musical Form and Analysis	2 units
Music 160A or B—Orchestration and Arranging	2 units
Music 161—Choral Conducting	2 units
Music 162—Instrumental Conducting	2 units
Music 163—Counterpoint	2 units
Music 179—Senior Recital Preparation	1 unit

* May be waived by examination.

Elect from the following courses	2 units
Music 115, 135, 155	
Elect from the following courses	4 units
Music 106, 107, 108, 115, 135, 145, 146, 147, 155, 175	
	34 units

NOTE: Candidates for the special or general secondary credential must have completed Music 114, at least one Education 193 methods course in music, and Music 161 prior to enrolling for directed teaching. Those students who expect an instrumental directed teaching assignment must also have completed the Music 105 requirements of the credential program.

Those students who have completed their music requirements for the special or general secondary credential at another institution must complete at least 4 units in music courses and participate in one performance organization at Los Angeles State College before they may expect to obtain the department's recommendation for directed teaching.

Bachelor's Degree Major in Music

Lower Division

Solfege	6 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	2 units
	18 units

Certain courses taken in the lower division in excess of the above minimum may be accepted for equivalent upper division requirements.

Upper Division

Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
Music 160A—Orchestration	2 units
Music 159A—Introduction to Form Analysis	2 units
Music 161—Conducting	2 units
Music 163—Counterpoint	2 units
Music 179—Senior Recital Preparation	1 unit
Elect from the following courses	10 units
Music 132, 167, 172, 173, 160B, 159B, 162, 105ABCDE, 168	
Elect from the following courses	2 units
Music 115, 135, 155	
Elect from the following courses	4 units
Music 106, 107, 108, 115, 135, 145, 146, 147, 155, 175	
	37 units

General Secondary Teaching Major

The music requirements for the general secondary credential in music are the same as those for the special secondary credential. See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field and a graduate year including additional professional education courses are required for the general secondary credential.

General Secondary Teaching Minor

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Solfege	4 units
Harmony	6 units

Upper Division

From Music 154, 132, 167, and 173—Music History and Literature	4 units
Music 161 <i>or</i> 162—Courses in conducting	2 units
From Music 112, 114,* 148, <i>or</i> 174—Piano courses	2 units
From Music 105, 109, 110, <i>or</i> 130—Instruments or voice	2 units

NOTE: Prospective teachers should plan to take Education 193 Mu, 193 MuA or 193 MuB prior to or concurrently with directed teaching. Participation in a musical organization is required each semester.

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

See page 56 for the total requirement for the master of arts degree.

1. Prerequisites

- A baccalaureate degree with a major in music.
- The completion of the instrumental, vocal, and piano requirements for the special secondary credential.
- Ability to perform acceptably as an instrumentalist on a standard orchestral instrument, piano, organ, or as a vocalist; and as a conductor.

2. Area of Specialization

a. Music Education	4 units
Music 202—Modern Trends in Elementary Music Education (2)	
Music 203—Advanced Problems in Secondary Choral Methods (2)	
Music 204—Advanced Problems in Instrumental Methods (2)	
b. Music	4 units
Music 216—Piano, Voice or Orchestral Instruments (2)	
Music 261—Advanced Choral Conducting <i>or</i>	
Music 262—Advanced Instrumental Conducting (2)	
c. Theory	2 units
Selected from any approved upper division or graduate "200" course.	
d. Music History and Literature	2 units
Selected from any approved upper division or graduate "200" course.	
e. Music 299—Graduate Project	3 units
3. Outside the field of music	6 units
4. Electives	9 units

Selected from music theory, applied music, music history and literature, professional education, liberal arts and sciences, or fine arts.

COURSES OF INSTRUCTION

103A Music for Children (2) Fall, Spring

Methods of teaching music in the elementary schools. This course concentrates on rhythmic activities, use of simple instruments, and music reading. Basic methods course for general elementary and kindergarten-primary credentials.

103B Music for Children (2) Fall, Spring

Prerequisite: Music 103A. Methods of teaching music in the elementary schools. This course concentrates on singing, creative and listening experiences.

* May be waived by examination.

105A-B Stringed Instruments (1-1) Fall, Spring

Instruction in violin, viola, cello, and string bass. Problems of tone production, right- and left-hand technique, knowledge of fingering. The first semester concentrates on violin or viola and cello or bass; the second semester affords experience on the remaining two instruments and adds ensemble experience.

105C Brass Instruments (1) Fall, Spring

Class instruction in brass instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingering on all brass instruments. Participation in beginning band or orchestra.

105D Woodwind Instruments (1) Fall, Spring

Class instruction in woodwind instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingering on all woodwind instruments.

105E Percussion Instruments (1) Fall, Spring

Essential rudiments for snare drum. Extensive experience in reading snare drum literature. Tuning and technique in tympani playing. Introduction to other essential percussion instruments.

106A-B-C-D Brass Ensemble (1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard brass ensemble literature, including brass choir, sextets, quintets, and quartets.

107A-B-C-D Woodwind Ensemble (1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard woodwind ensemble literature, including woodwind choir, sextets, quintets, and quartets.

108A-B-C-D String Ensemble (1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard chamber music for strings alone and strings with piano.

109A-B Elements of Vocal Technique (1-1) Fall, Spring

Prerequisite: Ability to read music notation. The techniques of voice production and study of song interpretation and participation in vocal ensembles.

110A Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A or B, or equivalent. A continuation of the study of vocal technique and study of representative song literature from the classic and preclassic eras.

110B Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A *or* B, or equivalent. A continuation of the study of technique and study of representative song literature from the romantic era.

110C Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A *or* B, or equivalent. A continuation of the study of vocal technique and study of representative song literature from the modern era.

112A-B-C Class Piano Instruction (1-1-1) Fall, Spring

Problems of piano technique, sight reading, and repertory. Introduction to keyboard harmony.

113 Elements of Harmony for Teachers (2) Spring

Prerequisite: Music 103A, *or* Music 112A, or qualifying examination. A study of the elements of harmony applied to singing and the keyboard. Designed to assist classroom teachers in teaching music and creating simple piano accompaniments.

114 Functional Piano for Music Education Majors (1) Fall, Spring

Prerequisite: Music 112C. The practical application of harmonic principles to develop the keyboard facility demanded in the public schools; transposition, choral score reading, sight reading, improvisation of accompaniments and directing from the piano.

115A-B-C-D Band (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

**116A-B-C-D Individual Lessons on Instruments or in Voice (1-1-1-1)
Fall, Spring**

On-campus, private lessons with approved instructors. Special fee.

119A-B Review of Harmony and Ear Training (2-2) Fall, Spring

Prerequisite: One year of elementary harmony and ear training. Review of diatonic harmony and elements of music writing. Melodic and harmonic dictation and sight singing. Keyboard applications. Does not count toward music major requirements.

**123 Music Appreciation Materials for Elementary School Teachers
(2) Spring**

Materials and methods for conducting listening activities and teaching music appreciation. Elementary level. (Formerly called Appreciation Materials for Schools.)

124 Piano Methods and Materials (2) Spring

Modern practical procedures in teaching piano from preschool child to adult level. Methods and materials for public school class and private teaching.

125 General Music in the Junior High School (2) Fall

Methods and materials for junior high level. Consideration of problems of changing voice, voice testing, and part-singing. The general music class. (Formerly called Junior High School Music Methods.)

127A-B-C-D Advanced Strings (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Class instruction in technique and repertoire for advanced students of violin and viola.

129A-B-C-D Advanced Brass (1-1-1-1) Spring

Prerequisite: Consent of instructor. Class instruction in technique and repertoire for advanced students of brass instruments.

130A-B-C-D Advanced Voice (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Performance of art song, opera, and oratorio literature. Advanced techniques.

131A-B History of Music in Western Civilization (3-3) Fall, Spring

A survey course considering music in general culture; stylistic development of music with emphasis on its relationship to the history of the other arts. A: Medieval through Baroque; B: Preclassical to modern.

132A Italian and French Operatic Literature (2) Fall

A brief history of development of opera through seventeenth and eighteenth centuries, with detailed analysis, using scores and recordings of representative operas.

132B German and Modern Opera (2) Spring

Operatic innovations of late nineteenth and twentieth centuries, with detailed analysis using scores and recordings of several examples of German and modern operas, chosen from the standard operatic repertoire.

135A-B-C-D Orchestra (2-2-2-2) Fall, Spring

Prerequisite: Consent of instructor. (Formerly 1 unit.)

145A-B-C-D Madrigal Singers (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

146A-B-C-D Women's Glee Club (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Designed for nonmusic majors.

147A-B-C-D Men's Glee Club (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Designed for nonmusic majors.

148A-B-C-D Intermediate Piano (1-1-1-1) Fall, Spring

Prerequisite: Music 112C or equivalent. Technical study and performance of some of the smaller compositions in the standard piano literature.

154 Music Appreciation (3) Fall, Spring

Introduction to sufficient rudiments of music to play simple instruments, and study of significant music literature (where possible through participation.) Attendance at eight community concerts required. For nonmusic majors only. (Formerly called Music Appreciation for Teachers (2).)

155A-B-C-D A Cappella Choir (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

158A-B Music Theory and Composition (3-3) Year course

Prerequisite: One year of harmony and some ability to play the piano. A review of diatonic harmony; study of chromatic harmony, melodic and harmonic dictation; chromatic alteration; practical application to composition in elementary forms.

159A Musical Form (2) Fall

Prerequisite: One year of harmony and musicianship. Analytic techniques for the study of balance in the organization of musical material. (Formerly called Introduction to the Analysis of Form.)

159B Advanced Problems in Musical Form (2) Spring

Prerequisite: Music 159A. Analytic techniques for the study of balance in the organization of music material in contrapuntal textures and in larger forms. (Formerly called Advanced Form.)

160A-B Orchestration and Arranging (2-2) A—Fall, B—Spring

Prerequisite: Elementary harmony. The theory and practice of writing for instrumental ensembles. The study of orchestral scores and an introduction to symphonic orchestration. It is recommended that Music 105A and D be completed prior to this course; Music 105C and E may be taken concurrently.

161 Choral Conducting (2) Fall, Spring

Principles of choral conducting; problems of choral organization.

162 Instrumental Conducting (2) Fall, Spring

Prerequisite: Music 161. Experience offered in transposition, score reading, baton technique and interpretation of symphonic literature. Recognition of psychologically sound rehearsal procedure. Experience given conducting performance organizations. It is recommended that Music 105A, E, and C or D be completed prior to this course.

163 Counterpoint (2) Fall, Spring

The study of eighteenth century contrapuntal techniques, including some work in the species; invertible counterpoint; motive development; and two- and three-part inventions. Introduction to linear counterpoint.

167A-B History and Literature of the Symphony Orchestra (2-2)
Fall, Spring

Masterpieces of symphonic literature. Classic, romantic and contemporary developments; study of scores and recordings.

168A-B Composition (2-2) Fall, Spring

Prerequisite: Music 158B (may be taken concurrently). Composition in small and large forms with parallel analysis.

169 Harmonic Analysis (2) Fall

Prerequisite: Music 158A-B (may be taken concurrently). Analysis, by scores, recordings and performance; classification and practical application of the harmonic procedures of Mozart, Beethoven, Brahms and Wagner.

171A-B-C-D Opera Workshop (1-1-1-1) Fall, Spring

Problems of opera production; presentation of typical operatic ensembles and scenes. Open to qualified singers.

172A Piano History and Literature (2) Fall

Survey of pre-piano and piano literature; changes in keyboard technique and style. Representative piano literature performed and analyzed.

172B Chamber Music History and Literature (2) Spring

Development of forms and survey of the literature for string quartets, trios, quintets, and other small combinations.

172C Contemporary Techniques (2) Fall

Study of the techniques used in contemporary composition and application to practical writing.

172D American Music (2) Spring

American music from colonial times to the present; brief survey of Latin American music.

173A Art Song (2) Fall

A survey of literature for solo voice from earliest times to the present.

173B History and Literature of the Larger Choral Works (2) Fall

Historical and analytical study of oratorios, masses, cantatas, and other large choral works.

174A-B-C-D Advanced Piano (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Advanced repertory and interpretive coaching for public performance, with consideration of materials selected from the different periods of musical composition.

175A-B-C-D Piano Ensemble (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

179 Senior Recital Preparation (1) Fall, Spring

Required of all music majors. Instruction in advanced technical problems, style, repertoire and performance experience.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**202 Modern Trends in Elementary Music Education (2) Fall**

Prerequisite: A baccalaureate degree with a major in music education. A study of modern trends in philosophy of education and how to apply them in the elementary school music classes.

203 Advanced Problems in Secondary Choral Methods (2) Fall

Prerequisites: Education 193Mu and Education 193MuB. An advanced course in methods of teaching choral music; a survey and evaluation of current choral materials, with classification as to appropriate levels; consideration of problems involved in various type of choral activities.

204 Advanced Problems in Instrumental Methods (2) Spring

Prerequisites: Education 193Mu, and Education 193MuA, or equivalent. An advanced course in the methods of teaching instrumental music in the various levels of the public schools; consideration of materials suitable for various types of instrumental organizations; study of the problems involved in setting up a successful instrumental music program.

207 Psychology of Music (2) Spring

A study of musical growth and development. The physical, mental, emotional, and social impacts of music upon the lives of people. The various learning theories will be explored and related to the development of musical insights, appreciations, and skills.

208A-B Advanced Composition and Analysis (2-2) Fall, Spring

Prerequisite: Music 168A-B or equivalent. Free composition in all the vocal and instrumental forms.

209A-B Advanced Orchestration and Arranging (2-2) Fall, Spring

Prerequisite: Music 160A-B or equivalent. Specialized work in arranging for ensembles including the symphonic band and standard symphony orchestra.

212 Music of the Baroque Period (2) Fall

Prerequisite: Music 131A-B. Styles, forms, composers and compositions from the early Baroque through the works of J. S. Bach.

213 Music of the Classical and Pre-classical Period (2) Spring

Prerequisite: Music 131A-B. Styles, forms, composers and compositions of preclassical and classical masters of the eighteenth century.

214 Music of the Romantic Period (2) Fall

Prerequisite: Music 131A-B. From the beginning of the romantic period to the late nineteenth century; symphony, romantic opera, art-song, tone-poem.

215 Music of the Twentieth Century (2) Spring

Prerequisite: Music 131A-B. Contemporary trends and techniques. Study of representative works by Debussy, Ravel, Stravinsky, Hindemith, Bartok, Schoenberg, and others.

**216A-B-C-D Individual Lessons on Instruments or in Voice (1-1-1-1)
Fall, Spring**

On-campus, private lessons with approved instructors. Special fee.

261 Advanced Choral Conducting (2) Spring

Prerequisites: Music 161 and Music 162. (Formerly Music 177.)

262 Advanced Instrumental Conducting (2) Spring

Prerequisites: Music 161 and Music 162. (Formerly Music 178.)

263 Canon and Fugue (2) Spring

Prerequisite: Music 163 or qualifying examination. Strict canonic writing from rounds through the four-part double canon; simple fugues through the double and triple fugue. Study and analysis of scores. (Formerly Music 164.)

299 Graduate Project (3) Fall, Spring

NURSING

(In the Division of Technical Sciences)

Staff: Bosworth (Department Head), part time: Byberg, Gooding, Lamona, Martinetti, Thomas.

BACHELOR'S DEGREE CURRICULA

Major in Nursing (For Registered Nurses)

See also page 53 for graduation requirements for the B.S. degree.

A total of 128 units must be completed to qualify for graduation with a B.S. degree in nursing. A nurse who has graduated from an accredited school of nursing and is registered in the State of California may be granted 36 units toward a B.S. degree with a major in nursing. Additional requirements for the completion of the major at Los Angeles State College are as follows:

Nursing 108—Community Nursing	2 units
Nursing 112—Nutrition in Family Health Service	2 units

Major in Nursing (For Student Nurses)

See also page 53 for graduation requirements for B.S. degree. A total of 128 units is required for the B.S. degree in nursing.

Lower Division

Human Anatomy	3 units
General Physiology	5 units
Introduction to Sociology	3 units
General Microbiology	4 units
Nutrition and Cookery	3 units
Diet Therapy	3 units
Survey of Nursing	2 units
History of Nursing	3 units
General Psychology	3 units

Upper Division

Nursing 100A—Professional Adjustments	1 unit
Nursing 100B—Professional Adjustments	2 units
Nursing 101—Medical-Surgical Nursing	5 units
Nursing 102—Medical-Surgical Nursing	5 units
Nursing 103—Pediatric Nursing	5 units
Nursing 104—Psychiatric Nursing	5 units
Nursing 105A—Medical Surgical Specialties	5 units
Nursing 105B—Operating Room Principles and Laboratory	2 units
Nursing 106—Tuberculosis Nursing	3 units
Nursing 107A—Maternity Nursing	2 units
Nursing 107B—Maternity Nursing Laboratory	2 units
Nursing 108—Community Nursing	2 units
Nursing 116—Nursing Arts	6 units

Nursing 121—Fundamentals of Nursing I *	9 units
Nursing 122—Fundamentals of Nursing II *	8 units
Nursing 123—Fundamentals of Nursing III *	11 units
Nursing 124—Fundamentals of Nursing IV *	5 units
Nursing 140—Drugs and Solutions	3 units
Nursing 141—Pharmacology	3 units

Special Secondary Teaching Major

1. A standard college course with a bachelor's degree.
2. Graduation from an accredited school of nursing.
3. Verification of current nursing registration in California.
4. Fulfillment of the professional education requirements for a special secondary credential; see page 118.
5. Completion of Nursing 111, Principles of Nursing Education, as a prerequisite to Education 193N.

COURSES OF INSTRUCTION

100A Professional Adjustments (1) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Instruction and guidance in the establishment of personal and professional standards in nursing.

100B Professional Adjustments (2) Fall, Spring

Prerequisites: Nursing 100A and enrollment in affiliated hospital school. A study of the professional nursing organizations, opportunities in nursing, and the personal and professional responsibilities of the registered nurse.

101 Medical-Surgical Nursing (5) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Orientation to medical science and surgical conditions and community nursing. An overview of causes and manifestations underlying pathology, diagnosis and treatment and prevention and control of disease.

102 Medical-Surgical Nursing (5) Fall, Spring

Prerequisites: Nursing 101 and enrollment in affiliated hospital school. A continuation of general medical and surgical nursing with emphasis on the social aspects of illness and further integration of community nursing. Conditions of the gastro-intestinal, liver and biliary, circulatory, endocrine, and respiratory systems.

103 Pediatric Nursing (5) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Physical and mental development of normal children, including their care and feeding. Common diseases of infancy and childhood, preventive measures, and medical and nursing care.

* See course description.

104 Psychiatric Nursing (5) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Principles of mental hygiene and the etiology, symptomatology, treatment, special therapy, and nursing care of the more common types of mental diseases.

105A Medical-Surgical Specialties (5) Fall, Spring

Prerequisites: Nursing 101, Nursing 102, and enrollment in affiliated hospital school. A continuation of medical and surgical nursing and community nursing with special reference to conditions of the nervous system; skin, eye, ear, nose and throat; urinary and musculoskeletal systems.

105B Operating Room Principles and Laboratory (2) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Clinical instruction in operating room procedure and practice.

106 Tuberculosis Nursing (3) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. The medical and social aspects of tuberculosis, including control programs, nursing measures, and rehabilitation.

107A Maternity Nursing (2) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Principles of normal and abnormal aspects of pregnancy, labor, delivery and puerperium with nursing care of mother and newborn.

107B Maternity Nursing Laboratory (2) Fall, Spring

Prerequisites: Nursing 107A and enrollment in affiliated hospital school. Clinical instruction in procedure and practice relating to total care of the mother and newborn.

108 Community Nursing (2) Fall, Spring

Prerequisite: Registered nurse or enrollment in affiliated hospital school. A survey of public health history, organization, philosophies, and programs. Emphasis on the role of the public health nurse.

111 Principles of Nursing Education (2) Fall, Spring

Prerequisite: Registered nurse or enrollment in affiliated hospital school. An introduction to nursing education for those who plan to enter the field of administration or teaching in schools of nursing. Emphasis on the application of nursing education to clinical programs.

112 Nutrition in Family Health Service (2) Fall, Spring

Prerequisites: Nutrition and Cookery, Diet, Therapy or equivalents; registered nurse or enrollment in affiliated hospital school. Nutrition and food service problems presented by families in moderate and low income groups. Special consideration of the various age and dietary needs within the family group, to the problems of food purchasing, and to the adaptation of both American and foreign food habits to meet good nutritive standards.

114 Principles and Practices of Public School Nursing (4) Fall

Practical application of basic principles, functions, techniques, and methods of public school nursing in California. Emphasis on relationship with authorized agencies in promoting health and welfare of public school children. Open only to currently employed public school nurses since daily laboratory work is required.

116 Nursing Arts (6) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Principles and practice of elementary procedures used in giving nursing care to patients. Includes personal hygiene, preservation of health, and prevention of disease. Nursing care is practiced in the classroom and in the patient's unit of the hospital.

117 Seminar in Nutrition (2) Fall

Prerequisite: Nursing 112 or consent of instructor. Covers recent developments in nutrition and its application in health programs. An investigation into problems encountered in achieving adequate application of nutrition information.

121 Fundamentals of Nursing I (9)

Prerequisite: Enrollment in affiliated hospital school. This course is planned to develop skills in planning and executing elementary nursing care in relation to the patient's individual needs. The course integrates sections of Nursing 116, 101, 140 and 100A. Credit not given for Fundamentals of Nursing I if these courses have been completed.

122 Fundamentals of Nursing II (8)

Prerequisite: Enrollment in affiliated hospital school. A study of and a development of an understanding of the basic principles of medical and surgical nursing. This course integrates sections of Nursing 116, 101, 141, 100A and 105A. Credit not given for Fundamentals of Nursing II if these courses have been completed.

123 Fundamentals of Nursing III (11)

Prerequisite: Enrollment in affiliated hospital school. This course acquaints the nurse with advanced nursing procedures and responsibilities involved in administration of drugs in the areas of medical, surgical and obstetrical nursing. The course integrates sections of Nursing 116, 102, 141, 100B, 105A and 107AB. Credit not given for Fundamentals of Nursing III if these courses have been completed.

124 Fundamentals of Nursing IV (5)

Prerequisite: Enrollment in affiliated hospital school. A course to give the student an understanding of the nature, functions and services of community health and welfare agencies, of factors which influence their development and nurses' responsibilities in relation to them. The course integrates sections of Nursing 108 and 100B. Credit is not given for Fundamentals of Nursing IV if these courses have been completed.

140 Drugs and Solutions (3) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. During this course the student gains a knowledge of the various systems used in the measurement of drugs and experience in the computation and preparations of solutions.

141 Pharmacology (3) Fall, Spring

Prerequisites: Nursing 140 and enrollment in affiliated hospital school. In this course a study is made of the derivation, classifications, and physiological effects of drugs in relation to the various systems of the body. It includes an investigation of minimal and lethal dosages, idiosyncrasies, toxic symptoms, and standard expected effects of drugs.

143 Principles of Nursing Clinical Instruction (2) Fall

The course content covers the principles of instruction, methods of teaching, opportunities for ward instruction and demonstration of ward methods. Group participation is used for demonstrations. Not a required course.

PHILOSOPHY

(In the Division of Social Sciences)

Staff: J. Wilson, Greenwood.

Minor in Philosophy

The minor in philosophy undertakes to present to interested students the social background, the concepts, and the ethics of philosophical and religious thought.

COURSES OF INSTRUCTION

General Prerequisite: Consent of instructor.

104 **Ethics** (3) Fall

The historical and scientific backgrounds of morality. Theories of the highest good. Ethical ideals of some of the world's major religions. Problems of personal and social morality.

110 **Types and Problems** (3) Spring

An examination of the basic types of philosophy such as materialism, naturalism, idealism, pragmatism, and realism. Considerable attention is given to certain major problems, including the following: space-time and relativity, the relationship of science to philosophy, human freedom, the nature of knowledge, ethics, aesthetics, belief in God, and the implications of philosophy for the contemporary social scene.

138 **Comparative Religions** (3) Fall, Spring

A comparative study of the world's living religions: Buddhism, Confucianism, Judaism, Christianity, Islamism, and others. Special attention is devoted to their concept of deity, the immortality of the soul, methods of salvation, and the influence of environment and culture upon these beliefs.

PHYSICAL EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

Staff: Wise (Department Head for Men), Yerrington (Department Head for Women), Adams, Cake, Deeds, Elliott, Ennen, Jumonville, Losee, Mochel, O'Brien, Reeves, Warner. Part-time: Berg, Wroblicky.

BACHELOR'S DEGREE CURRICULA

Major in Physical Education

Designed for students who expect to become physical education leaders in other than public school programs. See page 52 for graduation requirements for the B.A. degree.

Lower Division

Physical Education—One semester of at least one activity from each of the following: (a) aquatics, (b) individual or dual sports, (c) team sports, (d) rhythmic activities 4 units

Upper Division

P.E. activities 2 units

P.E. 114—Kinesiology 3 units

P.E. 116—Physiology of Activity 3 units

P.E. 117—Prevention and Care of Athletic Injuries (required for men; open to women) 2 units

P.E. 132—Methods in Teaching Individual Sports 2 units

P.E. 144—Organization and Administration of P.E. and Athletics 2 units

P.E. 145—History and Principles of Physical Education 2 units

H. & S.Ed. 150—School Health Education 3 units

Rec.Ed. 179—Organization and Administration of Club Activities *or* 2 units

Rec.Ed. 185—The Recreation Program 2 units

Select from the following 6-10 units

P.E. 125—Methods of Teaching Square and Round Dance (2)

P.E. 126—Methods of Teaching Modern Dance (2)

P.E. 127—Methods of Teaching Social Dance (2)

P.E. 130—Methods of Teaching Team Sports for Women (2)

P.E. 135—Methods of Coaching Tennis and Swimming (2)

P.E. 160—Methods of Coaching Football (2)

P.E. 161—Methods of Coaching Basketball (2)

P.E. 162—Methods of Coaching Track and Field (2)

P.E. 163—Methods of Coaching Baseball (2)

Select from the following 4-6 units

P.E. 115—Corrective Physical Education (2)

P.E. 120—Physical Education in Elementary Schools (3)

Rec.Ed. 161—Social Recreation Leadership (2)

Special Secondary Teaching Major

Designed for students who plan to teach in the secondary schools. See also general education requirements on page 52, and professional education requirements on page 118.

Lower Division

Physical Education—One semester of at least one activity from each of the following groups: (a) aquatics, (b) individual or dual sports, (c) team sports, (d) rhythmic activities 4 units

Upper Division

P.E. activities	2 units
P.E. 114—Kinesiology	3 units
P.E. 115—Corrective Physical Education	2 units
P.E. 116—Physiology of Activity	3 units
P.E. 117—Prevention and Care of Athletic Injuries (required for men; optional for women)	2 units
P.E. 132—Methods in Teaching Individual Sports	2 units
P.E. 144—Organization and Administration of Physical Education and Athletics	2 units
P.E. 145—History and Principles of Physical Education	2 units
H. & S.Ed. 150—School Health Education	3 units
H. & S.Ed. 121—First Aid <i>or</i>	
H. & S.Ed. 131—Methods of Teaching First Aid	1-2 units
P.E. 121—Water Safety <i>or</i>	
P.E. 131—Methods of Teaching Water Safety	1-2 units
From the following courses select	6-10 units
P.E. 125—Methods of Teaching Square and Round Dance (2)	
P.E. 126—Methods of Teaching Modern Dance (2)	
P.E. 127—Methods of Teaching Social Dance (2)	
P.E. 130—Methods of Teaching Team Sports for Women (2)	
P.E. 135—Methods of Coaching Tennis and Swimming (2)	
P.E. 160—Methods of Coaching Football (2)	
P.E. 161—Methods of Coaching Basketball (2)	
P.E. 162—Methods of Coaching Track and Field (2)	
P.E. 163—Methods of Coaching Baseball (2)	
Recreation education course, approved by adviser	2 units
(P.E. 140—School Camping and Outdoor Education is acceptable.)	

General Secondary Teaching Major

The general secondary teaching major in physical education is the same as the major for the special secondary credential. See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor and a graduate year including additional professional education are required for the general secondary credential.

General Secondary Teaching Minor

Designed for students who plan to teach in the secondary schools. See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Physical education activities, at least one course in each area	4 units
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Upper Division

Physical education activities	2 units
Physical education methods	2 units
Physical education science	2 units
Recreation education	2 units
Additional courses with the division selected with the approval of the adviser	8 units

 20 units

**FIELD OF CONCENTRATION FOR THE
MASTER OF ARTS DEGREE**

See also page 56 for the total requirement for the master of arts degree.

Prerequisite: Acceptable undergraduate preparation in the field of physical education.

1. Required courses:

P.E. 299—Graduate Project <i>or</i> Comprehensive Examination.....	0-3 units
P.E. 200—Physical Education Tests and Measurements.....	2 units
2. Additional physical education "200" courses.....	5-8 units
3. Additional upper division or graduate courses within the Division of Health and Safety, Physical Education, Recreation and Athletics.....	5 units
4. Courses outside the Division of Health and Safety, Physical Education, Recreation and Athletics.....	6 units
5. Electives.....	9 units

COURSES OF INSTRUCTION

100 Varsity Athletics

Counts as activity credit for one semester only as follows:

- 100A Baseball (1) Spring
- 100B Basketball (1) Fall, Spring
- 100C Football (1), Fall, Spring
- 100D Track and Field (1) Spring
- 100E Water Polo (1) Fall
- 100F Cross Country (1) Fall
- 100G Wrestling (1) Fall
- 100H Golf (1) Spring
- 100I Tennis (1) Spring
- 100J Bowling (1) Fall
- 100K Swimming (1) Spring
- 100L Gymnastics and Tumbling (1) Spring

101 Aquatic Skills (1) Fall, Spring

Practice in performance and analysis of swimming, diving and other aquatic skills.

102 Tennis Skills (1) Fall, Spring

Development of proficiency in tennis skills, including rules, tournaments, court etiquette and officiating.

103 Golf Skills (1) Fall, Spring

Development of skill in playing golf, including rules, etiquette, background and analysis of techniques.

105A Advanced Team Sports Skills (1) Fall

Advanced practice in performance techniques and analyzing procedures for various team sports. Selection of activities dependent upon the needs of students enrolled.

105B Advanced Dual and Individual Sports Skills (1) Spring

Practice in advanced performance techniques and analyzing procedures for various individual and dual sports. Selection of activities dependent upon the needs of students enrolled.

106 Basic Dance Skills (1) Fall, Spring

Survey, analysis and practice of the fundamental dance skills of all types of dancing.

107 Badminton Skills (1) Fall, Spring

Development of skill in playing badminton. The course covers the etiquette, rules, background, and techniques of playing badminton.

114 Kinesiology (3) Fall, Spring

Prerequisite: Human Anatomy. Analysis of joint and muscular action in relation to movement; application of the basic principles of mechanics to efficiency of performance in a variety of selected physical education activities.

115 Corrective Physical Education (2) Fall

Prerequisites: Human Anatomy. Administration of group and individual exercises for the prevention and correction of various functional disorders and structural defects; laboratory practices.

116 Physiology of Activity (3) Fall, Spring

Prerequisite: Physiology. Effects of various types of physical activity upon the circulatory, respiratory, and other physiological processes. How skill, endurance, fatigue, training, and related factors affect athletic performance.

117 Prevention and Care of Athletic Injuries (2) Fall, Spring

Prerequisites: Physiology or Human Anatomy. Conditioning for the prevention of injuries; techniques of massage, bandaging, and taping; immediate care of injuries; methods of recovery treatment.

120 Physical Education in Elementary Schools (3) Fall, Spring

Physical education in the elementary schools; program organization and activities.

121 Water Safety (1) Fall, Spring

Red Cross senior lifesaving.

125 Methods of Teaching Square and Round Dance (2) Fall

Techniques and materials for teaching and calling square and round dances.

126 Methods of Teaching Modern Dance (2) Spring

Prerequisite: Elementary Modern Dance, or consent of instructor. Techniques and organization of teaching modern dance in the elementary and secondary schools; history, philosophy, principles, composition.

- 127 **Methods of Teaching Social Dance** (2) Fall
Techniques and materials for teaching the basic steps of the waltz, fox trot, tango, samba, and other current popular dances.
- 128 **Methods of Teaching Rhythms in Elementary Schools** (2) Spring
Techniques and materials for the elementary school teacher in fundamental rhythms, rhythmic interpretations, dramatized rhythms, singing games; practice in the use of various devices of accompaniment.
- 130 **Methods of Teaching Team Sports for Women** (2) Fall
Prerequisites: Basketball, hockey, softball, and speedball activity, or consent of instructor. Techniques and organization of teaching basketball, hockey, softball and speedball in the secondary schools.
- 131 **Methods of Teaching Water Safety** (2) Spring
Prerequisite: Current Red Cross certificate in senior lifesaving. American Red Cross course which qualifies instructors in water safety.
- 132 **Methods of Teaching Individual Sports** (2) Fall, Spring
Organization and techniques of teaching individual and dual sports.
- 135 **Methods of Coaching Tennis and Swimming** (2) Spring
Prerequisite: Tennis and swimming activity, or consent of instructor. Problems involved in coaching tennis and swimming; methods of coaching skills and techniques of competitive tennis and swimming and laboratory practice.
- 137 **Sports Officiating for Men** (2) Fall
Problems and techniques of officiating the various sports for boys and men.
- 138 **Sports Officiating for Women** (2) Spring
Prerequisites: Physical Education 130, 132, and 135, or consent of instructor. Problems, techniques, and practice in officiating the various sports for girls and women. Leads to local and national officials ratings.
- 140 **School Camping and Outdoor Education** (2) Fall
Aims, organization, administration, and program of the school camp.
- 144 **Organization and Administration of Physical Education and Athletics** (2) Fall, Spring
Administrative policies, selection of staff; construction and use of facilities; class organization, finances and budgeting; purchase and care of equipment; publicity in physical education, athletics, and intramurals.
- 145 **History and Principles of Physical Education** (2) Fall, Spring
Background and development of present-day problems, issues, and controversies in the field of physical education.

160 Methods of Coaching Football (2) Fall

Prerequisite: Football activity, or consent of instructor. Techniques of coaching, organization of practice; handling of players; principles of competition; systems of offense and defense; purchase and care of equipment.

161 Methods of Coaching Basketball (2) Fall

Prerequisite: Basketball activity, or consent of instructor. Techniques of coaching, organization of practice; handling of players; principles of competition; systems of offense and defense; purchase and care of equipment.

162 Methods of Coaching Track and Field (2) Spring

Prerequisites: Track and field activity or consent of instructor. Problems involved in coaching track and field; methods of coaching skills and techniques, track, and field events, laboratory practice.

163 Methods of Coaching Baseball (2) Spring

Prerequisite: Baseball or softball activity or consent of instructor. Problems involved in coaching baseball; methods of coaching skills and techniques of baseball; laboratory practice.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**200 Tests and Measurements in Physical Education (2)**

Prerequisite: Graduate status with major in physical education or consent of instructor. Test of anthropometry, organic function, native physical capacity, achievement, and knowledge; their uses in the physical education program.

210 Supervision of Physical Education (2)

Prerequisite: Graduate status with major in physical education or consent of instructor. History, philosophy, principles and techniques of supervising physical education in the elementary and secondary schools; professional qualities and preparation of supervisors.

222 Seminar in Current Problems in Physical Education (3)

Prerequisite: Graduate status with major in physical education or consent of instructor. Consideration of current problems in physical education through analysis of literature and research findings.

245 Program Planning in Physical Education (2)

Prerequisites: Graduate status with major in physical education or consent of instructor. History, background, philosophy and consideration of current types of physical education instructional programs at the elementary, junior high school, high school, and junior college levels; methods of planning functional physical education curricula; adaptation of programs to facilities and staff.

246 Problems in Intramural and Interscholastic Athletics (2)

Prerequisite: Graduate status with major in physical education or consent of instructor. Current problems and recent trends in the conducting of intramurals and interscholastic athletics. Principles, procedures, and organization in competitive athletics.

299 Graduate Project (3) Fall, Spring

PHYSICAL SCIENCES

(In the Division of Natural Sciences)

Staff: Johnston (Department Head), Jacobs, Peterson, Welsh. Part-time: Cady, Pheley.

BACHELOR'S DEGREE CURRICULA

Major in Physical Science

See page 52 for additional graduation requirements for the B.A. degree.

The courses listed below are selected to provide a broad training in the physical sciences for nonteaching majors. If a student desires to deviate somewhat from this program in order to prepare for specific fields such as graduate study in chemistry or physics, employment in certain industries or governmental agencies as a chemist or physicist, he may select, with the aid of the adviser, a course of study designed to achieve this objective.

Lower Division

General Chemistry	10 units
Quantitative Analysis	3 units
General physics	8 units
*College mathematics	6 units

(Courses recommended but not required include organic chemistry, general biology, calculus.)

Upper Division

Select from upper division chemistry courses	7 units
Select from upper division physics courses	6 units
Select from upper division biological science courses	3 units
Chemistry 190AB—Seminar	2 units
Elective courses in the physical sciences approved by adviser	6 units

NOTE: Physical Science 125 may not be included in the above major.

General Secondary Teaching Major in Physical Science and General Science

See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field is also required.

Lower Division

Basic courses in physics and chemistry	16 units
*College mathematics	6 units

* Not required of students who present a minor in mathematics.

Upper Division

Physical Science 125—Physical Science Activities.....	3 units
Courses to be selected with approval of the adviser from the fields of astronomy, chemistry, conservation, geology, and physics.....	13-19 units
Courses to be selected from the biological sciences with the approval of the adviser (may be satisfied by acceptable lower division courses).....	2-6 units
Chemistry 190AB—Seminar.....	2 units
	—
	46 units

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing the other requirements for the degree are met.

General Secondary Teaching Minor in Physical Science and General Science

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required.

Basic courses in chemistry, physics or geology (some approved electives in closely related fields may also be included).....	8-10 units
Basic courses in biological science.....	4-5 units
Physical Science 125—Physical Science Activities.....	3 units
Electives to be selected with the approval of the adviser.....	2-5 units
	—
	20 units

NOTE: At least 6 units of the minor must be in upper division courses.

COURSES OF INSTRUCTION

ASTRONOMY

105 History of Astronomy (3) Fall, Spring

A study of the more important astronomical concepts and problems from the standpoint of their historical development and the contributions of great astronomers.

CHEMISTRY

106 Advanced Organic Chemistry (3) Spring

Prerequisite: Lower division organic chemistry. A course of more advanced nature dealing with the theoretical aspects of organic chemistry and the less common organic compounds.

108 Biochemistry (4) Fall

Prerequisite: Organic chemistry. A study of carbohydrates, fats, proteins, enzymes, and vitamins, with special reference to the nutrition of the living cell. Lecture three hours and laboratory three hours.

111 Clinical Biochemistry (4) Spring

Prerequisite: Chemistry 108. A study of biochemical methods for the analysis of blood, urine and other body fluids. Emphasis given to standard clinical procedures. Lecture three hours; laboratory three hours.

112 Organic Analysis (2) Spring

Prerequisites: Quantitative analysis with grade of at least "C," and Organic Chemistry. Preparation and identification of organic compounds. Laboratory six hours.

113 Advanced Inorganic Chemistry (3) Fall

Prerequisite: Year of general chemistry. A detailed study of the inorganic elements based on the periodic grouping and stressing electronic configuration, physical and chemical properties.

114A-B Physical Chemistry (3-3) Year course

Prerequisite: A year of general chemistry, mathematics (calculus), and general physics. Fundamental physical laws and theories as applied to chemistry. Lecture three hours.

114C-D Physical Chemistry Laboratory (1-1) Fall, Spring

Laboratory courses to accompany Chemistry 114AB. Laboratory three hours.

190A-B Seminar (1-1) Fall, Spring

Prerequisites: Senior standing and consent of instructor. Reviews of current literature and concepts in the various fields of chemistry. Required of all seniors majoring in the physical sciences.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

CONSERVATION

Conservation 161 is acceptable as an elective course for natural science general education requirement.

141 Conservation of Wildlife (3) Spring

Open only to qualified majors and minors in the biological and physical sciences. Basic environmental needs of wildlife, value of wildlife to humans, methods involved in conservation of this resource, current problems involved.

161 Conservation of Natural Resources (3) Fall, Spring

(See Geography 161)

Stresses physical and to a less extent biological factors involved in the depletion of the natural resources of the United States, such as soil, water, minerals and forests. The need for and application of conservation practices. Credit will not be given for both this course and Conservation 171.

171 Conservation Problems and Practices (3) Fall

Prerequisite: Open only to qualified majors and minors in the biological and physical sciences. An ecological approach to the biological and physical factors involved in the conservation of natural resources; consideration also given to conservation practices. Credit will not be given for both this course and Conservation 161.

GEOLOGY**101 Principles of Geology (3) Fall, Spring**

Prerequisite: Upper division standing. Principles of physical and historical geology will be considered. Not open to students with credit in undergraduate geology. Geologic features will be observed on a field trip.

110 Economic Geology (3) Spring

Prerequisite: Course in lower division geology or Geology 101. Source, distribution, and exploration of economically important metallic and nonmetallic mineral deposits.

PHYSICS**110 Modern Physics (3) Fall, Spring**

Prerequisite: Lower division physics or chemistry. An introduction to the basic principles of modern particle physics and electronics. Course involves a minimum of mathematics and stresses accurate understanding of the basic concepts. A valuable course for teaching majors. Lectures and demonstrations.

111 Electrical Measurements (3) Spring

Prerequisite: General physics (electricity and magnetism). Theory and application of electrical and magnetic measuring instruments. Includes error analysis and application of modern techniques to measurement of radiation and light, etc., as well as electrical quantities. Lecture two hours; laboratory three hours.

112 Basic Physical Electronics (3) Fall

Prerequisite: General physics (electricity and magnetism). Design of electric circuits and their application to laboratory problems. Begins with basic principles and develops a working knowledge of standard amplifiers and control circuits. Mathematical considerations are not stressed.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

PHYSICAL SCIENCE

Physical Science 100 is a general education course. Physical Science 200AB is a graduate course for the physical science major and physical science and general science major.

100 Survey of Physical Science (3) Fall, Spring

No prerequisites. An overview of the physical sciences as applied to modern living. Credit is not given if student has taken a college course in physics or chemistry.

125 Physical Science Activities (3) Fall

Practical field and laboratory activities in geology, astronomy, meteorology, physics and chemistry. Field work in collecting rocks, studying stars, making weather observations and examining local resource areas of practical physics and chemistry. Designed for physical science and general science majors and minors. Lecture two hours; laboratory two hours plus field trips.

200A-B Graduate Seminar (1-1) Fall, Spring

Reviews and discussions of current literature to provide an acquaintance with present developments in physical sciences.

POLICE SCIENCE AND ADMINISTRATION

(In the Division of Technical Sciences)

Staff: Barker (Department Head), Part-time: Bennett, Burger, Collins, Davis, Duncan, Fulton, Glavas, Gourley, Houghton, Iannone, Ireland, Koenig, Murdock, Simon, Walton.

BACHELOR'S DEGREE CURRICULUM

Major in Police Science and Administration

Designed for either inservice or preservice students who wish to prepare for, or to improve themselves in, the several forms of police work.

A total of 128 units is required for the B.S. degree in Police Science and Administration, including a minimum of 48 units within the major, not less than 34 units of the major being in upper division work. See page 53 for additional graduation requirements for the B.S. degree.

Lower Division

Police Administration	2 units
Basic Legal Procedure	2 units
Basic Laboratory and Scientific Techniques	2 units
Investigation	2 units
Criminal Law	3 units

Upper Division

Police Science 134—Police Ethics	3 units
Police Science 136—Police Patrol	3 units
Police Science 138—Investigation of Major Crimes	3 units
Police Science 139—Traffic Regulation and Control	3 units
Police Science 155—Criminology	3 units
Police Science 197—Special Police Problems	3 units

Select from the following:

Administration	6 units
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- Police Science 131AB—Police Administration (2-2)
- Police Science 133—Police Personnel Supervision (3)
- Police Science 140—Police Deployment (2)
- Police Science 143—Comparative Police Administration (3)

Evidence and Legal Procedure	3 units
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- Police Science 132—Evidence for Law Enforcement Officers (3)
- Police Science 135—Criminal Procedure (3)

Laboratory and Scientific Techniques	7 units
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- Police Science 137—Advanced Police Laboratory (3)
- Police Science 142—Interrogation and Lie Detection (3)
- Police Science 144—Police Photography (2)
- Police Science 145—Forensic Ballistics and Explosives (2)

Criminal Law	3 units
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- Police Science 141—Juvenile Law (3)
- Police Science 152—Law for the Police Supervisor (3)

† May be met in lower division.

COURSES OF INSTRUCTION

Prerequisites: Completion of appropriate lower division introductory courses, or equivalent training, or consent of instructor.

131A-B Police Administration (2-2)

Analysis of the functional divisions of the modern police department; applications of principles of organization and administration; structure and functions of the police record system; police statistical methods; administrative reports and analyses.

132 Evidence for Law Enforcement Officers (3) Fall, Spring

Leading rules and principles of exclusion and selection; burden of proof; nature and effect of presumption; proof of authenticity and contents of writings; examination, competency, and privilege of witnesses; respective functions of court and jury.

133 Police Personnel Supervision (3) Spring

Administration of police personnel; setting up entrance standards; techniques of selection and examination; training; probation; rating; promotion; discipline; morale; promotional examination and merit system.

134 Police Ethics (3) Fall, Spring

General considerations in the relationship of actions to motives; concepts of ethical conduct and the rules and principles used to direct them; institutional ethics; personal and professional standards; historical problems in ethics from the law enforcement point of view; present day conflicts and compromises.

135 Criminal Procedure (3) Fall

Criminal procedure from apprehension to conviction, based on the Penal Code of California; arrest with and without warrants by police officers; arrest by private citizens; extradition proceedings; information and indictment; functions of the grand jury and coroner's inquest; procedure at the trial; appeals and new trials.

136 Police Patrol (3) Fall

Responsibilities, powers, and duties of the uniformed patrolman; patrol procedure; mechanics of arrest; transportation of prisoners; raids; riot and crowd control; crime prevention functions of the officer on patrol.

137 Advanced Police Laboratory (3) Fall

Lectures, demonstrations and actual use of laboratory equipment in the collection, preservation, analysis, and interpretation of physical evidence of various types, including: footprints, tiretracks, toolmarks, blood, hair, textiles, stains, dust, dirt and debris; narcotic identification and determination of intoxication; casing, moulage, photomicrography; spectrography; court presentation and expert testimony.

138 Investigation of Major Crimes (3) Fall, Spring

Investigative methodology in the field of major crime; relations of the detective with other law enforcement divisions; techniques and principles for gathering, evaluating, and preserving physical evidence; modus operandi; personal identification; interrogation, preliminary and follow-up investigations.

139 Traffic Regulation and Control (3) Spring

Organization and functions of the police traffic division; educational, engineering, and enforcement methods; technique of the traffic survey; traffic accident investigation; elements of a sound traffic program.

140 Police Deployment (2) Fall

An intensive study of deployment of police personnel on all levels; the watch; the division and over-all city and larger organization planning; disaster, and other emergency deployment planning, including riot, parade, and crowd control.

141 Juvenile Law (3) Fall, Spring

The California Juvenile Court Act, The Youth Authority, and other legislation governing juvenile delinquency and crime prevention; rights of juveniles as distinguished from those of adults; sociological and psychological development in California law in the prevention of crime by juveniles, including probation procedures and institutional care.

142 Interrogation and Lie Detection (3) Fall, Spring

Survey of modern methods of handling witnesses, informants, and suspects; evaluation of so-called truth serums, lie-detectors, and other laboratory devices; the psychology and physiology involved in deception.

143 Comparative Police Administration (3) Spring

A comparative approach to the study of administrative patterns in the police services of selected American cities and in European police systems.

144 Police Photography (2) Fall

The application of photography to the police field with reference to the preservation of physical evidence and courtroom presentation.

145 Forensic Ballistics and Explosives (2) Spring

Prerequisite: Consent of instructor. Lectures, demonstrations, and practical work in the preparation, analysis and court presentations of ballistics evidence, including weapons, projectiles, cartridges, propellants; commercial, military, and homemade explosives, their composition, stability, and destructive force.

147 Correctional Administration (3) Fall

Aims and objectives of correctional administration; laws; records; public relations; types of personnel and relationships to programs, including custodial and noncustodial interrelationships and divisions; physical plant and security; employment and care and treatment program.

148 The Police and the Public (2) Spring

Training of uniformed officers in securing public cooperation and approval; coordination of internal and external public relations on the staff level; use of photographs, radio, television and press releases, particularly in cases affecting juveniles and race and other special group relations; public appearances of peace officers; special Southern California problems.

151 Vice Control (3) Spring

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of lotteries and other forms of gambling and gambling methods, and of prostitution and other sex crimes from the law enforcement point of view.

152 Law for the Police Supervisor (3) Fall, Spring

Practical methods whereby the police officer can determine what the law is; jurisdiction and other legal problems involved in the organization and functions of administrative agencies in fields related to law enforcement; specific problems of administrative law from the point of view of the police supervisor; analysis of new legislation and recent judicial trends; problems with regard to arrest, searches and seizures, civil rights, etc.

155 Criminology (3) Fall, Spring (See Sociology 155)**197 Special Police Problems (3) Fall, Spring**

Problems inherent in the special economic, social and political status of the police officer; police attitudes toward minority groups and professional police methods in handling tension situations; causes, methods of prevention, and handling of race riots, strikes and other disturbance situations by the police; use of special equipment, including chemical agents, and the suppressing of civil disturbances. A research project and report will be required of each student in his particular field of interest.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

PSYCHOLOGY

(In the Division of Social Sciences)

Staff: Wilkening (Department Head), Bernberg, Diamond, Goldenberg, Haralson, Hutchinson, Lewis, Schwarz, Thompson, Troup, Wang.

BACHELOR'S DEGREE CURRICULA

Major in Psychology

The major in psychology, consisting of 30 units of upper division courses, prepares students for graduate professional training as psychologists (Option 1), while offering opportunity for specialized training in such areas as counseling (Option 2), and industrial psychology (Option 3). Courses are applicable to credential requirements. See page 52 for additional graduation requirements for the B.A. degree.

Lower Division

Introduction to Psychology.....	3 units
Elementary Physiological Psychology <i>or</i> Personal and Social Adjustment.....	3 units

Recommended: One course from each of the following groups:

1. Algebra, analytic geometry, or mathematics for social and life sciences.
2. Sociology or anthropology.
3. Physics or chemistry.
4. Physiology, zoology, or genetics.
5. Philosophy, scientific method, logic.

Upper Division

A. Core requirements (regardless of option selected all students must complete the core requirements).

Psychology 114—Experimental Psychology.....	3 units
Psychology 116—Physiological Psychology.....	3 units
Psychology 120A—Elementary Statistical Methods.....	3 units
Psychology 126B—Contemporary Schools of Psychology.....	3 units

B. Option requirements (select any 18 units with consent of an adviser from Option 1, 2, or 3).

Option 1—General

Psychology 110—Abnormal Psychology.....	3 units
Psychology 112—Child Psychology.....	3 units
Psychology 120B—Statistical Methods in Psychology.....	3 units
Psychology 126A—History of Psychology.....	3 units
Psychology 127A—Psychological Testing (group).....	3 units
Psychology 130—Psychology of Personality.....	3 units
Psychology 142—Human Communication.....	3 units
Psychology 145—Social Psychology.....	3 units
Psychology 164—Psychology of Learning.....	3 units
Psychology 170—Psychology of Marital Adjustment.....	3 units
Psychology 197—Psychology Proseminar.....	3 units

Option 2—Counseling

Psychology 110—Abnormal Psychology	3 units
Psychology 112—Child Psychology	3 units
Psychology 113—Psychology of Adolescence	3 units
Psychology 127A—Psychological Testing (group)	3 units
Psychology 127B—Psychological Testing (individual)	3 units
Psychology 130—Psychology of Personality	3 units
Psychology 145—Social Psychology	3 units
Psychology 154—Survey of Clinical Psychology	3 units
Psychology 160—Counseling and Interviewing	3 units
Psychology 170—Psychology of Marital Adjustment	3 units
Psychology 181—Employment and Personnel Psychology	3 units
Education 188—Psychology and Education of the Exceptional Child	3 units

Option 3—Industrial Psychology

Psychology 120B—Statistical Methods in Psychology	3 units
Psychology 127A—Psychological Testing (group)	3 units
Psychology 142—Human Communication	3 units
Psychology 144—Attitude and Opinion Measurement	3 units
Psychology 145—Social Psychology	3 units
Psychology 156—Industrial Psychology	3 units
Psychology 160—Counseling and Interviewing	3 units
Psychology 180—Psychology of Advertising and Selling	3 units
Psychology 181—Employment and Personnel Psychology	3 units
Psychology 183—Psychology of Labor Relations	3 units

(Recommended: 12 units in the related fields of economics, business, sociology, or government)

12 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in psychology aimed at depth of understanding. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in psychology, including completion of core requirements. (See major in psychology.)
2. Area of specialization
 - a. Psychology 290A or B—Seminar in Advanced General Psychology 3 units
 - b. Minimum additional "200" courses in psychology
 - c. Approved courses in psychology; may be upper division
 - d. Comprehensive written examinations in selected fields of psychology.
3. Approved courses outside the area of psychology
4. Other courses approved in advance by the adviser

6 units

9 units

COURSES OF INSTRUCTION

General prerequisites: One year of college psychology, or consent of instructor. Exception: no prerequisite for Psychology 100.

100 Survey of Psychology (3) Fall, Spring

An introduction to the psychological processes of perception, learning, thinking, motivation, intelligence, personality, and social behavior.

Facts and principles pertinent to an analysis of the behavior of everyday living. Not open to students who have completed an introductory course in psychology.

106 Mental Deficiency (3) Fall, Spring

The nature and causes of mental deficiency; physiological and psychological characteristics. Problems of social control, including education, social adjustment, institutionalization, and community responsibility.

108 Mental Hygiene (2) Fall, Spring

Social and emotional adjustment and personality in the light of mental hygiene principles, with special attention to adjustment problems of the college student.

110 Abnormal Psychology (3) Fall, Spring

Historical overview of abnormal psychology; criteria of abnormal behavior; symptomatology; disturbing forces in personality formation; and therapeutic considerations.

112 Child Psychology (3) Fall, Spring

Developmental trends in infancy and childhood. Study of current literature.

Credit will not be given for both Psychology 112 and Education 102.

113 Psychology of Adolescence (3) Fall, Spring

Recommended prerequisite: Psychology 112. Problems of adolescents; physical and social development during adolescence.

114 Experimental Psychology (3) Fall, Spring

Prerequisite: Psychology 120A. Experiments in problems of human learning, remembering, perception, and personality. Emphasis on basic problems of research-design and experimental techniques. Lectures and laboratory.

116 Physiological Psychology (3) Fall, Spring

The relationship between integrated behavior and physiological processes. Study of theories relating psychology and physiology.

120A Elementary Statistical Methods (3) Fall, Spring

120B Statistical Methods in Psychology (3) Spring

Prerequisite: Psychology 120A (Mathematics 113). More advanced techniques of correlation, analysis of variance, and factor analysis, as applied to testing procedures and research.

126A History of Psychology (3) Fall

Consideration of the historical development of psychology from its origins in ancient philosophy and science to the end of the nineteenth century.

126B Contemporary Schools of Psychology (3) Spring

Contemporary psychological theories and systems in their historical perspective and present position.

127A Psychological Testing (Group) (3) Fall, Spring

Prerequisite: Psychology 120A or equivalent. Selection, administration, and interpretation of commonly used group tests of intelligence, interests, aptitudes, etc.

127B Psychological Testing (Individual) (3) Fall, Spring

Prerequisite: Psychology 120A or equivalent. The concept of intelligence; the most commonly used tests of intelligence; emphasis on practical experience in administering and interpreting individual intelligence tests (especially the Revised Stanford-Binet and the Wechsler scales).

127C Psychological Testing (Individual Performance Tests) (3) Spring

Prerequisite: Psychology 127B. Practical experience in administering the Grace Arthur, Cornell-Coxe, and other performance and aptitude tests.

127D Psychological Testing (Applied to the Mentally and Physically Atypical) (3) Fall

Prerequisite: Psychology 127B. Selection, administration, and interpretation of tests used for appraising the atypical individual. Survey of etiological theories.

130 Psychology of Personality (3) Fall, Spring

Biological and cultural determinants of personality; dimensions of personality and their measurement or appraisal; integration of personality as related to adjustment.

142 Human Communication (3) Spring

Psychological factors involved in the creation and manipulation of symbols. Art and science as forms of communication. Emphasis on psychological aspects of communication media (radio, television, and motion picture).

144 Attitude and Opinion Measurement (3) Fall

Prerequisite: Psychology 120A. Attitude scales and public opinion surveys. Design of investigation, sampling methods, analysis of results, and applications to various psychological problems. Field work.

145 Social Psychology (3) Fall, Spring

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group. (Same as Sociology 145.)

154 Survey of Clinical Psychology (3) Fall, Spring

Prerequisite: Psychology 110. An elementary course in clinical techniques of psychology with consideration of the relationship of diagnosis, therapeutic techniques, and research to the field of clinical psychology.

156 Industrial Psychology (3) Fall, Spring

Psychological techniques in modern industry; selection, training, and evaluation of employees; morale and promotion; fatigue and safety practices.

160 Counseling and Interviewing (3) Fall, Spring

Prerequisite: Consent of instructor. An introduction to the problems and techniques of counseling and interviewing. Presentation of the attitudes and objectives of the counselor and counselee.

164 Psychology of Learning (3) Fall, Spring

A consideration of major theoretical systems of learning; Hull, Guthrie, Tolman, Skinner. Analysis and interpretation of experimental literature.

170 Psychology of Marital Adjustment (3) Fall, Spring

Problems of money, in-laws, sex, etc., considered primarily as symptoms of a disordered personality. Emphasis on the psychological insights necessary for adjustment to self and others and to social and cultural institutions.

180 Psychology of Advertising and Selling (3) Fall

The relative strength of the desires in buying; attention value of form, size, color, and typographical layout and methods of measuring the effectiveness of advertisements; characteristics of salesmen. Practical projects in cooperation with advertising agencies and various sales groups.

181 Employment and Personnel Psychology (3) Fall

Prerequisite: Psychology 120A. The application of psychological principles to the technical problems involved in developing a personnel testing program and in appraising its effectiveness; employment procedures; job success.

183 Psychology of Labor Relations (3) Spring

Exploration of the human relations involved with union and management; psychological aspects of conflict and cooperation between labor and management; the role the psychologist plays in union relations. Field work and guest speakers.

197 Psychology Proseminar (3) Fall, Spring

Senior course: recommended for all psychology majors. An introduction to psychological method. Designed to prepare students for graduate work in psychology.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study or internship program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration, and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in psychology.

212 Behavior Disorders in Children (3)

Application of principles of psychology to behavior disorders in children. Designed primarily for clinicians, social workers, and parent educators.

215 Advanced Experimental Methods (3)

Emphasis on design of experiments and apparatus employed in psychological research. The student becomes familiar with basic laboratory equipment, and in the course of the semester designs an experiment in his field of major interest.

227 Psychodiagnostic Testing (3)

Prerequisites: Psychology 127B, 130, 154, or equivalent, or consent of instructor. Clinical application of tests for the measurement of intelligence; evaluation of qualitative aspects and limitations in functioning due to emotional and organic factors and the integration of these findings into the clinical case history.

228A Methods of Appraising Personality (3)

Prerequisite: Psychology 227, and permission of instructor. Appraising personality by means of thematic projective material. Theories of perception and personality as a background for understanding the implications of projective material. Experience in administering and interpreting the TAT, MAPS, Four-picture Test, and other thematic material.

228B Methods of Appraising Personality (3)

Prerequisite: Psychology 228A and permission of instructor. Appraising personality by means of the Rorschach Technique: administration, scoring, and basic interpretation.

245 Seminar in Social Psychology (3)

Prerequisites: Psychology 145 and the equivalent of Psychology 142 and 144. Theory, methodology, and applied problems dealing with the complex phenomena of group life. An analysis of the psychological tools for group adjustment; group dynamics, assessment of social attitude, role playing, psycho-drama, etc. Individual projects.

246 Applied Methods for Group and Leadership Situations (3)

Prerequisite: 12 units in courses dealing with human relations and consent of instructor. Study of interpersonal relations and leadership within groups such as classroom, employee, social clubs and other relatively small social organizations. The origin of conflict, cooperation and misunderstanding within groups. Emphasis on superior-subordinate relations. Applied methods for group motivation and activities toward accomplishing group goals with emphasis on minimizing conflict and maximizing effort.

254 Clinical Techniques in Psychology (3)

Prerequisite: Psychology 228B or consent of instructor. Experience in working as a diagnostic team to evaluate actual clinical cases. Advanced analysis and integration of projective techniques and case history material with stress on the effective oral and written presentation of clinical findings.

260 Seminar in Counseling (3)

Prerequisites: Psychology 130 or 154, 160, or their equivalents, and consent of instructor. Intensive class discussion of recorded counseling interviews and of typical counseling situations, coordinated with reading of current literature in this area.

270A-B Seminar in the Psychodynamics of the Family (3)

An approach to a deeper understanding of the personality in family patterns through an analysis of case histories. An extended analysis of the interacting personalities that make up the family with emphasis on group interaction and therapeutic techniques.

272 Practicum in Counseling (3)

Supervision of field experiences in counseling; analysis, use and interpretation of methods and materials used by the counselor. Open only to those already working in some counseling capacity.

290A Seminar in Advanced General Psychology (3)

A critical review of current literature, theories, methods and problems, concerning sensory, learning, and symbolic processes.

290B Seminar in Advanced General Psychology

A critical review of current literature, theories, methods and problems, concerning motivation, emotion, and perception.

RECREATION EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

Staff: Willott (Department Head), Cake, Losee, O'Brien; part-time, Bahr.

BACHELOR'S DEGREE CURRICULUM

Major in Recreation Education

Designed for students who plan professional leadership in recreation fields. See page 53 for additional graduation requirements for the B.S. degree. A total of 124 units is required for the B.S. degree in Recreation Education.

Lower Division

Physical Education Activities (at least one course in each area)	2 units
Theory and Conduct of Competitive Sports <i>or</i>	
Methods of Coaching and Officiating in Athletic Groups	3-4 units
Principles of Community Recreation	3 units
Safety Education and First Aid	2-3 units
Club Leadership of Camp Activities <i>or</i>	
Organization and Theory of Camping	2 units
Games for the Elementary School <i>and</i>	
Rhythms for the Elementary School	2-3 units

Upper Division

H. & S. Ed. 121—First Aid and P.E. 121—Water Safety (1-1) <i>or</i>	
H. & S. Ed. 131—Methods of Teaching First Aid (2) <i>or</i>	
P.E. 131—Methods of Teaching Water Safety (2)	2 units
P.E. 125—Methods of Teaching Square and Round Dance	2 units
P.E. 132—Methods of Teaching Individual Sports	2 units
P.E. 140—School Camping and Outdoor Education <i>or</i>	
Rec. Ed. 188—Camp Leadership	2 units
Rec. Ed. 161—Social Recreation Leadership	2 units
Rec. Ed. 175—Organization and Administration of Recreation	3 units
Rec. Ed. 176AB—Directed Leadership in Private and Public Recreation Agencies	6 units
Rec. Ed. 177—Community Relations in Recreation	2 units
Rec. Ed. 179—Organization and Administration of Club Activities	2 units
Rec. Ed. 185—The Recreation Program	2 units
Rec. Ed. 189—Philosophy of Recreation	2 units

See adviser regarding electives in related fields to meet individual needs.

COURSES OF INSTRUCTION

160 Special Events in Recreation (2) Fall

The function of, and planning for, festivals and pageants in the community and private recreation programs.

161 Social Recreation Leadership (2) Fall, Spring

Leadership techniques in the various social phases of recreation.

- 175 Organization and Administration of Recreation (3) Fall**
Problems encountered in establishing and organizing a community for recreation services. Special emphasis given to governmental control, legislative provision, municipal control, budgets, personnel, departmental organization, and administrative practices.
- 176A Directed Leadership in Private Recreation Agencies (3)**
Fall, Spring
Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.
- 176B Directed Leadership in Public Recreation Agencies (3)**
Fall, Spring
Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.
- 177 Community Relations in Recreation (2) Spring**
Development of the ability to interpret, promote and publicize community recreational programs and activities through personal contacts and various publicity media.
- 178 Industrial Recreation (2) Fall**
The fundamental techniques of organization and administration of recreation in industry.
- 179 Organization and Administration of Club Activities (2) Fall**
Techniques in the organization and general program planning for recreation in club activities.
- 185 The Recreation Program (2) Fall**
Problems commonly encountered in planning the content of the recreation program including principles of program construction, scheduling, and evaluation in the various fields of recreation.
- 187 Dance in Community Recreation (2) Fall, Spring**
Conduct of community dancing including advanced techniques in round, square, and social dances.
- 188 Camp Leadership (2) Spring**
Techniques of camp counseling and leadership, some program content and visits to nearby camps.
- 189 Philosophy of Recreation (2) Fall, Spring**
The interpretation of recreation as a basic part of the living process, its importance in individual, community and national life. Its social and economic significance and the growing demands of leisure time problems.

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration, and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**270 Seminar: Recreation in Public Education (2) Spring**

Prerequisite: Graduate status or consent of instructor. Uses made of educational resources for recreation and community living. Consideration will be given to the after school program, summer programs, school camping, outdoor education and adult education.

271 Surveys and Planning in Recreation (2) Fall

Prerequisite: Graduate status or consent of instructor. Planning for recreation services and facilities based on studies and surveys. Various types of recreational surveys will be studied for the purposes of understanding, scope, content, objectives, procedures, and types.

275 Seminar in Administration of Public Recreation (2) Spring

Prerequisite: Graduate status or consent of instructor. An analysis of administrative duties and responsibilities and suggested approaches and methods of administration that have been proved by actual experience.

SOCIAL SCIENCE

(In the Division of Social Sciences)

Staff: Chosen from the Division of Social Sciences and the College at large.

BACHELOR'S DEGREE CURRICULA

Major in Social Science

The social science major is not intended to qualify students for professional, educational, or vocational objectives. Its purpose is cultural: to provide a liberal education with main emphasis in the social sciences. See page 52 for additional graduation requirements for the B.A. degree.

Lower Division

Basic social science courses chosen from two or three of the following fields 9-12 units

- Social Anthropology
- Economics
- Social Geography
- Government (Political Science)
- History
- Social Science
- Sociology

Upper Division

Social Science 150—Scientific Method and Applied Logic 3 units

Courses chosen in conference with a social science adviser from fields below:

- One principal field 15 units
- Two other fields: 6 units each 12 units

NOTE: Social Science fields include: cultural anthropology, economics, social geography, government, history, social psychology, social science, sociology.

General Secondary Teaching Major in Social Studies

The major in *social studies* has been designed specifically for teachers-in-training who have chosen social studies as their composite field major for the general secondary credential. Completion of this major will prepare students to teach effectively the subjects in the several social sciences commonly taught in the junior high and high schools and junior colleges of California. See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

10-12 units of basic social science courses from two or three of the social sciences: anthropology, economics, history, geography, government (political science), social science and sociology. The upper division program will be planned to balance courses taken in the lower division.

Upper Division

With the approval of a social studies adviser, 24 units of upper division work will be selected by the candidate in at least four of the following fields (must include both United States history and United States government). The selection will be made on the basis of the student's future plans, the work taken in the lower division, and the aptitude of the student.

Cultural Anthropology	Government (other)
Economics	Cultural Geography
History (United States)	Social Psychology
History (other)	Social Science
Government (United States)	Sociology

Graduate (Fifth Year)

With the approval of the social studies adviser, 6 units from "200" courses in the social sciences, including Social Science 250A.

NOTE: When 24 units of upper division work in the teaching major, and 5 units in professional education are completed, the candidate may apply for the B.A. degree, providing other requirements for the degree have been met.

General Secondary Teaching Minor in Social Studies

See also general education requirements on page 52, and professional education requirements on page 116. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

10-12 units in basic social science courses chosen, with approval of an adviser, from at least two fields.

Upper Division

With the approval of a social studies adviser 10-12 units from at least three fields listed above under social studies major will be selected by the candidate. If necessary, a part of this requirement may be completed in the graduate year.

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in the social sciences aimed at depth of understanding and appreciation of significant relationships. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in social science.
2. Area of concentration
 - a. Social Science 250A and B 6 units
 - b. Approved graduate "200" courses chosen from two of the following fields: economics, or geography, or government, or history, or sociology, or social psychology. Approved graduate project, not to exceed 3 units of credit, may be included 6 units
 - c. Other approved courses in the social sciences; may be upper division 3 units
 - d. Comprehensive examinations in the composite field of social science and in designated social science areas.
3. Approved courses outside the area of the social sciences 6 units
4. Other courses approved in advance by the adviser 9 units

COURSES OF INSTRUCTION

Prerequisites: Completion of two introductory courses in the social sciences. Exception: No prerequisite for Social Science 100.

100 **The United States** (2) Fall, Spring

An orientation course designed for, and open only to, students from foreign countries for the purpose of acquainting them with the historical, political, economic, and social background that is a part of every American student's education, to bring them into contact with American educational and vocational principles and practices, and to give them a better understanding of the values that are the foundation of what is called "the American way of life." The course is recommended for international students.

150 **Scientific Method and Applied Logic** (3) Fall, Spring

Nature and application of logic, in its relations to the social sciences. Special attention is given to the foundation in logic of the methods of scientific inquiry.

169 **Contemporary Latin America** (3) (Offered 1955-56)

Prerequisite: Knowledge of the Spanish language. Introduction to the contemporary Hispanic world by means of identification of analysis of significant trends and problems. Particular emphasis upon recent economic and social developments in the Southwest. Lectures and discussions in Spanish and English.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in the social sciences.

250A-B **Seminar in Social Science** (3-3) Fall, Spring

An interdisciplinary approach to selected problems, regions, or trends; directed by the staff of the division. 250A is prerequisite to 250B.

SOCIOLOGY

(In the Division of Social Sciences)

Staff: Wallace (Department Head), Diehl, Ford, Nahrendorf, Penchef.

BACHELOR'S DEGREE CURRICULUM

Major in Sociology

The sociology major leads to a bachelor's degree in sociology with a concentration in either sociology or social welfare, and also prepares the student for graduate study toward an advanced degree in one of the major areas of sociology or social work. See page 52 for additional graduation requirements for the B.A. degree.

Lower Division

Introduction to Sociology	6 units
Recommended: Inductive Logic (Social Science 150 will substitute in upper division)	

Upper Division

A. Core Requirements	
Sociology 163—Elementary Social Statistics	3 units
Sociology 167—Development of Sociology	3 units
Sociology 197—Introduction to Social Research	3 units
B. Option Requirements (Select option 1 or 2)	
Option 1—Sociology	
Sociology courses chosen with the approval of an adviser	15 units
Courses in allied fields, or in sociology, chosen with the approval of an adviser	6 units
Option 2—Social Welfare	
Sociology 156—The Field of Social Work	3 units
Sociology 170—Methods of Social Work	3 units
Sociology courses chosen with the approval of an adviser	9 units
Courses in allied fields, or in sociology, chosen with the approval of an adviser	6 units

FIELD OF CONCENTRATION FOR THE MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in sociology aimed at increased competency and depth of understanding. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in sociology.
2. Area of concentration
 - a. Social Science 250A 3 units
 - b. Approved graduate "200" courses in the field of sociology. Sociology 290 must be included 9 units
 - c. Other approved courses in the field of sociology; may be upper division "100" courses 3 units
 - d. Comprehensive written examinations in selected fields of sociology.
3. Approved courses outside the area of sociology 6 units
4. Other courses approved in advance by the adviser 9 units

COURSES OF INSTRUCTION

Prerequisite for upper division courses: Introduction to Sociology, or consent of instructor.

102 Social Processes and Institutions (3) Fall, Spring

Introductory analysis of social processes and institutions, and clarification of basic sociological concepts. The various areas of sociology are studied from the standpoint of their contributions to present day American life. (Formerly Social Processes and Concepts.)

103 Marriage and the Family (3) Fall, Spring

Recent social changes affecting marriage and family behavior. Love, courtship, engagement, mate selection, and marital success. The family as a unity of interacting personalities.

104 Cultural Anthropology (3) Fall, Spring (See Anthropology 104)

Either 104 or 105 may carry sociology credit, but not both.

105 Culture and Personality (3) Fall, Spring (See Anthropology 105)

110 The City (3) Fall

A study of the city with special attention to the psycho-social features of urban phenomena.

112 Regional Sociology (3) Spring

Ecological factors in society. Attention is given to social and cultural regionalism, and to the development, form, spatial distribution, and organization of communities and institutions in relation to their habitats. (Formerly Regions of the United States.)

122 Social Change (3) Spring

Changes in technology, ideology, and social organization. Theories of social change and progress. Adjustments within society to social change.

126 Social Legislation (3) Fall

A study of the socio-philosophical movements and democratic processes directed toward bringing about and maintaining laws relating to social security. Health insurance, workmen's compensation, employment, and other measures and proposals are examined and referred to the larger cultural body of which they are a part.

145 Social Psychology (3) Fall, Spring

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group. (Same as Psychology 145)

146 Social Control (3) Fall

Nature of social controls, and their classification. Means and agencies, with particular attention to controls in law, religion, education, the family, and the economy.

147 Mass Communication and Propaganda (3) Fall

Communication in its sociological aspects, especially in mass and crowd behavior. Propaganda in its relationship to social actions and social systems.

148 Juvenile Delinquency (3) Fall, Spring

Extent and distribution, with emphasis on the local area. Meaning, implications, and treatment of delinquency. Personal and environmental conditioning factors.

150 Population (3) Fall

An analysis of the causes and consequences of major population trends throughout the world; of changes in birth and death rates, sex ratio, age distribution, race and nationality composition; marital, educational, and occupational status; religious composition; population density; migration.

155 Criminology (3) Fall, Spring (See Police Science 155)

Investigation of the nature of crime, and the conditioning factors in criminal behavior of the individual and group.

156 The Field of Social Work (3) Fall, Spring

The development of American social work; the scope and diversity of specific programs used in meeting welfare problems in contemporary society.

158 Community Welfare Organization (2) Fall, Spring

Evaluation of the interdependency of individual and group and their common human needs in regard to resources such as family service agencies, clinics and hospitals, schools, youth and adult organizations. The coordination of social agencies and welfare services, with emphasis on local community resources. (Formerly Community Organization.)

159 Child Welfare (3) Spring

A study of trends affecting the growth and change of the movement toward establishing the rights of the child to care and protection. Emphasis is placed upon the child and the law, compulsory education, school social work, child labor legislation, institutional and foster care for the healthy and sick child, and adoption legislation.

160 Industry in Modern Community (3) Fall

The sociological analysis of employee, employer, and consumer relationships. Typical problems in the fields of personnel administration, vocational guidance, job training, industrial health, employee morale, and collective bargaining are considered.

163 Elementary Social Statistics (3) Fall, Spring

Inquiry into statistical methods with the objective of understanding the ways in which social data are presented and treated in sociological literature. Training in the use of those statistical techniques associated with the area of descriptive statistics. (Formerly Elementary Statistical Method.)

164 Social Statistics (3) Spring

Prerequisite: Sociology 163 or equivalent. (Recommended for all sociology majors, especially those planning graduate work.) The use of formulae applicable to the matters of central tendency, variability, reliability, comparison, and correlation. The use of these tools is related to problems illustrating the social scientific methods of collecting data.

167 Development of Sociology (3) Fall, Spring

Contributions of social philosophy and the social and natural sciences to the growth of sociology, considered historically and analytically.

168 Contemporary Sociology (3) Spring

Growth of sociology in the United States. Contribution of present day sociologists. Relation of sociology to other fields, such as psychology, education, and anthropology. Occupational opportunities in sociology.

170 Methods of Social Work (3) Fall, Spring

Theories, principles, and practices of social case work in group, medical, and psychiatric settings. Discussion of case material and literature for the appreciation and development of skills in social welfare work.

172 Contemporary Treatment of Law Violators (3) Spring

A survey of general and specific treatment programs used in the rehabilitation of the offender in correctional institutions, probation and parole. Field trips.

175 In-service Training (Variable credit) Fall, Spring

In-service training for court and welfare personnel. Upgrading preparation and refreshing of personnel in the field at the request of social organizations and bureaus.

190 Race Relations (3) Fall

An analysis of the processes leading to the organization and disorganization of majority and minority group relations. Attention is given to the latest findings concerning the most successful experiments in the field of ethnic group interaction.

194 Social Dynamics of Abnormal Behavior (3) Spring

The sociological aspects of defiant behavior and personality disorganization. Social research methods applied to the problem of individual and group tension.

197 Methods of Social Research (3) Fall, Spring

Prerequisites: Inductive Logic and Scientific Method, or Social Science 150, or equivalent. Application of the scientific method to social phenomena. An analysis of the more important techniques used in sociological research. Preparation of research papers and reports. Methods of collecting, classifying, interpreting, and presenting social data. Case studies of typical research monographs. (Formerly Introduction to Social Research.)

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study or internship programs. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in sociology.

245 Seminar in Social Psychology (3)

Advanced investigation of the dynamics of social interaction. Interdisciplinary research.

270 Studies in Contemporary Sociology (3)

A survey of the methods and research of contemporary sociologists, with particular attention to the convergence of apparently divergent methodologies in this swiftly maturing science.

271 Studies in Social Welfare (3)

The seminar is designed to provide for a deeper understanding of individual and group phenomena as related to specific phases of social welfare on the local, state, and federal level. Field studies and class planning are based upon the student's interest in his field of study or employment.

279 Seminar in Marriage and the Family (3)

An advanced study of the sociodynamics of the family as a social institution, with emphasis on recent research regarding processes of family change, family disorganization and reorganization.

280 Social Statistics (3)

A more advanced interpretation of empirical findings in terms of mathematical proof. Consideration is given to statistical inference, the analysis of variance, the analysis of covariance, microstatistics, and non-parametric statistics.

281 Practicum (3)

Individual and group experiences in the use of sociological scales, the techniques of sociometry, and social interaction schedules.

290 Social Research (3)

An advanced study of social research techniques, with supervised application of research methods in a laboratory or field study situation. *Required* for the master's degree in sociology.

299 Graduate Project (3)

SPANISH

(In the Division of Language Arts)

Staff: Bonhard.

BACHELOR'S DEGREE CURRICULA

Major in Spanish

See page 52 for additional graduation requirements for the B.A. degree.

Designed for students who elect to study the liberal arts tradition with an emphasis on modern languages.

Lower Division

Elementary Spanish (one year)	6-8 units
Intermediate Spanish (one year)	6-8 units

Upper Division

Spanish 102AB—Spanish Literature to 1800	6 units
Spanish 103AB—Spanish Literature Since 1800	6 units
Spanish 116AB—Advanced Composition and Syntax	6 units
Upper division electives in Spanish	6 units

General Secondary Teaching Major

See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

Elementary Spanish	6-8 units
Intermediate Spanish	6-8 units

Upper Division

Spanish 102AB—Spanish Literature to 1800	6 units
Spanish 103AB—Spanish Literature Since 1800	6 units
Spanish 104AB—Survey of Spanish American Literature	6 units
Spanish 116AB—Advanced Composition and Syntax	6 units

Graduate (Fifth Year)

Select from the following	6 units
Speech 164D—High School Dramatics (2)	
Journalism 164J—High School Journalism (2)	
Language Arts 164—Motion Picture and TV (2)	
Spanish 101A or B—Oral and Written Composition (3-3)	
Spanish 104AB Survey of Spanish American Literature	6 units
<hr/>	
	42 units

General Secondary Teaching Minor

See also general education requirements on page 52, and professional education requirements on page 116.

Lower Division

Intermediate Spanish	8 units
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Upper Division

Spanish 101A-B—Oral and Written Composition.....	6 units
Six units to be chosen from:	
Spanish 102A } Spanish Literature to 1800.....	} 3 units } 3 units
Spanish 102B }	
Spanish 103A } Spanish Literature from 1800.....	} 3 units } 3 units
Spanish 103B }	

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 197.

COURSES OF INSTRUCTION

101A-B Oral and Written Composition (3-3) Offered alternate years beginning Fall, 1954 *b*

Prerequisite: Intermediate Spanish.

102A-B Spanish Literature to 1800 (3-3) Offered alternate years beginning Fall, 1955

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B.

103A-B Spanish Literature Since 1800 (3-3) Offered alternate years beginning Fall, 1954 *b*

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B.

104A-B Survey of Spanish American Literature (3-3) Offered alternate years beginning Fall, 1955

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B. First semester literature to 1888.

116A-B Advanced Composition and Syntax (3-3) Offered each year

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B.

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

SPEECH AND DRAMA

(In the Division of Language Arts)

Staff: Stansell (Department Head), Altenberg, Daniel, Douglass, Gardemal, Hill-bruner, Huber, Mudd, Sillars

BACHELOR'S DEGREE CURRICULA

Major in Speech and Drama

See page 52 for graduation requirements for the B.A. degree.

Designed for students (1) who elect to study the liberal arts tradition in speech and drama, (2) or who plan to engage in professional work on the stage, screen, or television, or in careers where skill in dramatic art is essential.

Lower Division

From the following areas 3 units
Public Speaking, Acting Fundamentals, Oral Interpretation, Voice Training, Stagecraft

Upper Division

Speech 110—Public Speaking 3 units
Speech 112A—Advanced Acting 3 units
Speech 120—Oral Interpretation 3 units
Speech 153—History of the Theater 3 units
Speech 130—Voice and Diction 2 units
Speech 196A—Special Projects in Speech and Drama 3 units
Language Arts 197—Language Arts and the Democratic Tradition 2 units

Select from the following 3 units

Speech 131—American Phonetics (3)
Speech 150AB—Principles of Directing (3-3)
Speech 196BCDEF—Special Projects in Speech and Drama (3-3-3-3-3)
Language Arts 100B—Oral Expression (3)

Select from the following at least 5 units

Speech 111ABCD—Persuasive Speaking (2-2-2-2)
Speech 112B—Advanced Acting (3)
Speech 134—Introduction to Speech Therapy (3)
Speech 155—Television Techniques (3)
Speech 156ABCD—Information Programs in Television (2-2-2-2)
Speech 170—Set Lighting (2)
Speech 173—Technical Production (3)
Speech 175—Theater Costume Design (2)
Speech 176—Scene Design (2)
English 117J—Interpreting Shakespeare (3)
English 124—Interpreting Dramatic Literature (3)
Journalism 192—Radio and Television Continuity Writing (3)
Language Arts 164M—Mass Communication Arts (2)

Major in Speech Therapy

See page 52 for graduation requirements for the B.A. degree.

Designed for students who plan to engage in speech therapy as a career.

Lower Division

Public Speaking	3 units
Voice Training or Interpretation	3 units

Upper Division

Speech 120—Oral Interpretation	3 units
Speech 130—Voice and Diction	2 units
Speech 131—American Phonetics	3 units
Speech 134—Introduction to Speech Therapy	3 units
Speech 135—Advanced Speech Therapy	3 units
Speech 136—Clinical Practice	2 units
Speech 163A—Speech and Dramatic Activities in Elementary Schools	3 units
Audiology 100—Audiology	3 units
Language Arts 197—Language Arts and the Democratic Tradition	2 units

30

General Secondary Teaching Major

See also general education requirements on page 52, and professional education requirements on page 116. A teaching minor in a different teaching field is also required for the general secondary credential.

Credential must include courses in composition, drama or journalism, speech, and literature.

Lower Division

From the following areas	3 units
Public speaking, acting fundamentals, stagecraft, oral interpretation, voice training	

Upper Division

Speech 110—Public Speaking	3 units
Speech 164D—High School Dramatics	2 units
Speech 164S—High School Speech Arts	2 units
Speech 196A (CDEF)—Special projects in speech and drama	3 units
Language Arts 100B—Oral Expression	3 units
Language Arts 197—Language Arts and the Democratic Tradition	2 units
Select from the following at least	6 units
Speech 111A—Persuasive Speaking (2)	
Speech 111B—Persuasive Speaking (2)	
Speech 112AB—Advanced Acting (3-3)	
Speech 130—Voice and Diction (2)	
Speech 196B (CDEF)—Special projects in speech and drama (3)	
Select from the following at least	6 units
Speech 120—Oral Interpretation (3)	
Speech 131—American Phonetics (3)	
Speech 150AB—Principles of Directing (3-3)	
Speech 153—History of the Theater (3)	
Speech 155—Television Techniques (3)	

Graduate (Fifth Year)

With approval of adviser, electives in speech	6 units
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General Secondary Teaching Minor

See also general education requirements on page 52, and professional education requirements on page 116. Credential must include courses in composition, drama or journalism, speech, and literature.

Lower Division

From the following areas 3 units
 Public Speaking, Acting Fundamentals, Stagecraft, Oral Interpretation,
 Voice Training

Upper Division

Speech 110—Public Speaking 3 units
 Speech 164D—High School Dramatics 2 units
 Speech 164S—High School Speech Arts 2 units
 Speech 196A (BCDEF)—Special Projects in Speech and Drama 3 units
 Select from the following at least 3 units
 Language Arts 100B—Oral Expression (3)
 Speech 112AB—Advanced Acting (3-3)
 Select from the following at least 4 units
 Speech 111ABCD—Persuasive Speaking (2-2-2-2)
 Speech 120—Oral Interpretation (3)
 Speech 130—Voice and Diction (2)
 Speech 150AB—Principles of Directing (3-3)
 Speech 155—Television Techniques (3)
 —
 20 units

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 197.

COURSES OF INSTRUCTION

REMEDIAL SPEECH

99 Individual Speech Therapy (1) Spring

Prerequisite: Consent of instructor. Practical individualized assistance for students who have deficient speech. Students with foreign accents, articulatory defects, organic defects, stuttering, etc., are eligible to enroll.

ORAL SKILLS

100B Oral Expression (3) (See Language Arts 100B)

Students enroll in Language Arts 100B.

110 Public Speaking (3) Fall, Spring

Prerequisite: Three units of public speaking or consent of instructor. Preparation, organization, and delivery of practical speeches. Emphasis upon audience analysis and speeches for special occasions.

111A-B-C-D Persuasive Speaking (2-2-2-2) Fall, Spring

Prerequisite: Consent of instructor. Methods of persuasion with emphasis upon ethical, logical, and pathetic proofs. Opportunities for all intercollegiate forensic activities. May be taken separately, or in any sequence.

112A-B Advanced Acting (3-3) A—Fall, B—Spring

Prerequisite: Consent of instructor. Intensive study of gesture, movement, timing, and pointing; problems of characterization. Attention given to styles of acting and to characteristics of acting in various dramatic media. Class will present scenes from plays of various types. Students may be designated to play roles in college sponsored productions. May be taken in any sequence. (Formerly Drama 110A-B.)

120 Oral Interpretation (3) Fall, Spring

Intensive study of the theory of oral interpretation. Student participation in the reading of poetry and prose before the class.

130 Voice and Diction (2) Fall, Spring

Prerequisite: Consent of instructor. Studies in phonation, articulation, and pronunciation. Special attention given to diction for classroom teachers, for the public speaker, and for the stage.

131 American Phonetics (3) Fall, Spring

Systematic analysis of the sounds of speech, use of the international Phonetic Alphabet. Application of phonetic principles to articulation, to the teaching of speech, and to speech therapy.

SPEECH THERAPY**134 Introduction to Speech Therapy (3) Fall, Spring**

Characteristics, causes and treatment of speech defects. Designed to acquaint the classroom teacher with common speech problems of children and to serve as an introductory course for speech therapists.

135 Advanced Speech Therapy (3) Spring

Prerequisite: Speech 134 or equivalent. Intensive study of the speech handicapped individual. Consideration of various causal factors, including cleft palate and cerebral palsy. Theories of treatment and observation of speech therapy in practical situations.

136A-B-C-D Clinical Practice (1) Fall, Spring

Prerequisite: Speech 134 or equivalent. Practical experience with speech handicapped individuals. Work in the speech clinic under the supervision of the faculty.

150A-B Principles of Directing (3-3) A—Fall, B—Spring

Prerequisite: Consent of instructor. Lectures and practice in problems of stage and television direction. Students may be designated to participate in direction of college sponsored productions. May be taken in any sequence. (Formerly Drama 160A-B.)

153 History of the Theater (3) Spring

Prerequisite: Consent of instructor. Dramatic literature from the Greek period to the present. Selected critical readings about the theater and drama. (Formerly Drama 100.)

155 Television Techniques (3) Fall, Spring

Prerequisite: Consent of instructor. A survey of current trends in television programming and production. Occupational opportunities in commercial and educational television. Lectures and demonstrations with class participation. (Formerly Drama 101.)

**156A-B-C-D Information Programs in Television (2-2-2-2)
Fall, Spring**

Prerequisite: Speech 155 (may be taken concurrently). A survey of the techniques which may be employed in presenting educational opportunities to the public through the medium of television. Planning and preparation of educational information, and public service television programs. May be taken in any sequence. (Formerly Drama 176A-B-C-D.)

SPEECH EDUCATION**163A Speech and Dramatic Activities in Elementary Schools (3)
Fall, Spring**

Prerequisite: Consent of instructor. Theory and techniques of creative dramatics, puppetry, cutout shadow plays, choral reading, and story telling. Designed primarily for kindergarten, primary, and elementary teachers. Also valuable to leaders in extracurricular activity. (Formerly Drama 163.)

164D High School Dramatics (2) Spring

Prerequisite: Consent of instructor. Theory and techniques of dramatic production in secondary schools. Requires attendance at typical high school dramatic activities. Not a methods course, as emphasis is on subject field skills. (Formerly Drama 164D.)

164S High School Speech Arts (2) Fall

Prerequisite: Consent of instructor. Techniques of speech in the secondary school. Survey of textbooks suitable for secondary schools. Includes public speaking, oral interpretation, discussion, debate, and other speech activities. Requires attendance at high school speech arts activities. Not a methods course, as emphasis is on subject field skills.

TECHNICAL THEATER**170 Set Lighting (2)** (Offered in spring of even-numbered years)

Prerequisite: Consent of instructor. Lectures and practice in design and execution of lighting plots. Problems in lighting design, applied color, and specific effects. Students may be designated to serve on studio or stage crews in college sponsored productions. (Formerly Drama 134.)

173 Advanced Technical Production (3) Fall, Spring

Prerequisite: Consent of instructor. Advanced shop and staging techniques for stage, screen, and television. Students may be designated to serve on studio or stage crews in college sponsored productions. (Formerly Drama 102.)

175 Theater Costume Design (2) (Formerly Drama 175)**176 Scene Design (2)** (Formerly Drama 116)**SPECIAL STUDIES****196A-B-C-D-E-F Special Projects in Speech and Drama**

(3-3-3-3-3) Fall, Spring

Prerequisite: Consent of instructor. Participation under faculty supervision in the planning, preparation, and presentation of college sponsored speech and dramatic activities. May be taken in any sequence. (Formerly Drama 196A-B-C-D.)

198 Field Assignment and Reports (1-2) Fall, Spring

Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

Prerequisite: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. A project is selected in conference with the sponsor at the time of registration and progress meetings are held regularly thereafter until the end of the semester.

GRADUATE COURSES**215 Performance (2)**

Prerequisites: Speech 120 or equivalent and graduate standing. Planning and presentation of monodramas, book reviews, and speeches for recitals, radio, television, and community relations projects. Offered when demand warrants. (Formerly Speech 205.)

220D Proseminar in Dramatic Arts (3)

Prerequisites: Graduate standing and consent of instructor. Backgrounds in theatrical art; an analysis of the aesthetic principles and content of the theater; selected problems in the philosophy of dramatic art. May be repeated for credit when a different course problem is undertaken. (Formerly Drama 220.)

220S Proseminar in Speech Arts (3)

Prerequisites: Graduate standing plus consent of instructor. Selected problems in the philosophy of the speech arts, their influence upon contemporary movements and affairs in the American democratic society. May be repeated for credit when a different course problem is undertaken. (Formerly Speech 220.)

235 Seminar in Speech Therapy (3) Fall, Spring

Prerequisite: Graduate standing plus consent of instructor. Analysis and evaluation of the basic concepts in the field of speech pathology and their applications to the development of modern techniques of diagnosis and therapy.

236A-B-C-D Clinical Practice (1) Fall, Spring

Prerequisites: Speech 135 and 136 and graduate standing. Practical experience with speech handicapped individuals. Work in the Speech Clinic under the supervision of the faculty.

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