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

BULLETIN 1953-1954

LOS ANGELES STATE COLLEGE OF APPLIED ARTS AND SCIENCES BULLETIN

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FALL AND SPRING SEMESTERS
1953-1954

855 North Vermont Avenue, Los Angeles 29, California

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COLLEGE CALENDAR

FALL SEMESTER 1953-54

- August 31, 1953..... Deadline for applications for all entering students not in attendance during spring, 1953. 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 14-18..... Orientation and Registration week. Students should consult the class schedule for details regarding registration.
- September 18, 3 p.m..... Last time to register without late fee.
- September 21..... Instruction begins. Late registration fee becomes effective.
- September 25, 12 m..... Last day to register.
- October 2..... Last day to add classes to Official Study List. Deadline for applications for graduation in February, 1954.
- October 30..... Last day to withdraw from class without risk of "F" grade.
- November 11..... Armistice Day (legal holiday).
- November 19..... Optional examinations to meet American government and history graduation requirements.
- November 26-29, incl..... Thanksgiving Holidays.
- December 11..... Deadline for applications for graduation in June, 1954.
- December 21-January 3, 1954, incl..... Christmas Holidays.
- January 4, 1954..... Classes resume.
- January 8..... No "W" grades assigned for withdrawal after this date.
- January 21-27..... Semester examinations.
- January 29..... Fall semester ends.

SPRING SEMESTER 1954

- January 8, 1954..... Deadline for applications for all entering students not in attendance during fall 1953-54. 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.
- February 1-5..... Orientation and Registration week. Students should consult class schedule for details regarding registration.
- February 5, 3 p.m..... Last time to register without late fee.
- February 8..... Instruction begins. Late registration fee becomes effective.

February 11	.....	Last day to register.
February 12	.....	Lincoln's Birthday (legal holiday).
February 19	.....	Last day to add classes to Official Study List. Deadline for applications for graduation in Summer, 1954.
February 22	.....	Washington's Birthday (legal holiday).
March 19	.....	Last day to withdraw from class without risk of "F" grade.
March 25	.....	Optional examinations to meet American government and history graduation requirements.
April 12-17	.....	Easter vacation.
May 28	.....	No "W" grades assigned for withdrawal after this date.
May 31	.....	Legal holiday in recognition of Memorial Day.
June 10-16	.....	Semester examinations.
June 18	.....	Spring semester ends.

ADMINISTRATION

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
Thomas J. Mellon, San Francisco	1954
Byron H. Atkinson, Glendale	1953
Mrs. E. T. Hale, San Diego	1954
Gilbert H. Jertberg, Fresno	1955
Joseph Loeb, Los Angeles	1955
Max Osslo, San Diego	1953
Mrs. Vivian N. Parks, Richmond	1954
Wilber D. Simons, Redding	1956
Mrs. Margaret H. Strong, Palo Alto	1956

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	Chester R. Milham
Secretary	Dorothy Wenzel
Public Relations and Publicity	Irvin Borders

ADMISSION AND REGISTRATION

Admissions Officer	Robert J. Williams
Evaluators	June Hillman, Lenore Laymon, Donna Bergquist, Margaret Rush
Secretaries	Pat Jones, Dora Tucker
Registrar	John Salmond
Office Assistants	Elinore Dolnick, Margaret Metzger, Pat Foley, Joan Lawless, Ed Johnson, Bill Fleener
Credential Technician	Toni Siamis
Secretary	Mildred Greenwood

INSTRUCTION

Dean of Instruction	John A. Morton
Secretary	Jensine Phillips
Extended Day Program and Extension Supervisor	Alfred E. Ehrhardt
Secretaries	Virginia Hronis, Edith Finkelstein
Business and Economics, Chairman	Floyd R. Simpson
Secretary	Velma Tetzlaff
Accounting, Department Head	George N. Francis
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
Education, Chairman	A. LeRoy Bishop
Secretary	Deleen Sommer
Elementary Education, Department Head	Roderick G. Langston
Secretary	Marie Gunter
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
Fine Arts, Chairman	William E. Daywalt
Secretary	Gloria Bon
Art, Department Head	D. Keith Manion
Home Economics, Adviser	Thelma Graves
Music, Department Head	Keith D. Snyder
Health, Physical Education, Recreation and Athletics, Chairman	Ferron C. Losee
Secretary	Joanne Clevenger
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	Frances E. Cake
Recreation Education, Department Head	George W. Willott

Language Arts, Chairman	Clarence K. Sandelin
Secretary	Donna Garrett
Drama, Adviser	Louis G. Gardemal
English, Department Head	
Foreign Languages, Adviser	Florence M. Bonhard
Journalism, Adviser	Paul T. Scott
Language Arts, Adviser	Frederick B. Shroyer
Speech, Department Head	
Natural Science, Chairman	Dean A. Anderson
Secretary	Edith Pritchard
Mathematics, Adviser	Samuel E. Urner
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	Richard O. Nahrendorf
Technical Sciences, Chairman	Willis M. Kenealy
Secretary	Ruth Freedman
Audiology, Department Head	A. Helen Kennedy
Engineering, Department Head	George W. Duncan
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, Virginia Bonar
Curriculum Evaluator	William G. Leary
Coordinator Graduate Studies	
Audio-Visual Coordinator	Adam E. Diehl
Assistant Coordinators	Emma Van Valkenburg, Jesse Ott
Laboratory Assistant	Merwin Soyster
Secretary	Hiroko Kawanami
12 College Librarian	Beverly S. Caverhill
Secretary	Alberta Ehrenwerth
Reference Librarian	Marjorie B. Gardner
Circulation Librarian	Mary Alice Peairs
Circulation Assistant	Shirley Ulrich
Serials Librarian	William R. Eshelman
Periodicals Assistant	Rene Breen
Order Librarian	Gladys J. Rohde
Assistant Order Librarian	Ernest W. Toy, Jr.
Order Assistants	Clemence Bowman, Marjorie Steakley
Catalog Librarian	Dorothy G. Armstrong
Assistant Catalog Librarian	Joseph C. Cunningham
Catalog Assistant	Oriole Buder

STUDENT PERSONNEL

Dean of Student Personnel	Morton J. Renshaw
Secretary	Beth Black
Associate Dean of Student Activities	Floyd R. Eastwood
Secretaries	Eileen Adler, Betty Kolberg
Assistant Activities Officer	Phyllis S. Justice

✓ Associate Dean of Counseling and Guidance	Eugenia C. Loder
Secretary	Ruth Eley
✓ Placement Officer	Don D. Prosser
Secretary	Rosemary Maxwell
✓ Student Placement	Alice Larson
Interviewer	Johanna Taafe
✓ Teacher Placement	Carita K. Conner
Secretary	Jean Montalvo
✓ Health Officer	Hyman Simmonds
Nurse	Catherine Annan
Secretary	Carol Pendleton
Test Officer	net yet assigned for 1953-54

Dr. Hefner
Edred

Dr. Wanamaker

BUSINESS MANAGEMENT

✓ Business Manager	Warner K. Masters
✓ Accounting Officer	Jack C. Heppe
Accounting Technician	Marie Lemly
Personnel and Pay Roll	Arline Snyder, Mary Gillette
✓ Cashier-Receptionist	Helen Alter
Accounting	Elsie Hawkins, Ruth Kramer
Veterans Refunds and Purchasing	Sumiye Nerio
Property and Accounts Payable	Ruth Anne Steed
Receiving and Stores	Charles Cole
Duplicating Services	Nina Mjatsch, Jeannette Routon
✓ Graduate Manager	William Lerz

LIST OF FACULTY—1953-54

- 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.
- Daniel A. Amneus (1950)..... Assistant Professor of English
 B.A., 1941, University of California; M.S., 1947, University of Southern California; additional graduate study, 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.
- Catherine P. Annan (1953)..... College Nurse
 R.N., 1936, St. Luke's Hospital School of Nursing; A.B., 1948, Whittier College; M.A., 1949, Teachers College, Columbia University.
- Dorothy Gertrude Armstrong (1951)..... Catalog Librarian
 B.J., 1926, University of Missouri; B.A.L.S., 1941, University of Oklahoma.
- H. Homer Aschmann (1951)..... Assistant Professor of Geography
 B.A., 1940, M.A., 1942, University of California at Los Angeles; Ph.D., 1952, University of California at Berkeley.
- 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)..... Assistant 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; 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)..... Assistant Professor of Government
 B.S., 1933, United States Naval Academy; M.A., 1949, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.

- Walter Blackledge (1951)..... Assistant Professor of Business Admin.
B.S., 1943, St. Ambrose College; M.A., J.D., 1947, Ph.D., 1951, University of Iowa;
member of the Illinois and Iowa State Bar.
- 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 (1952)..... Lecturer in Business Administration
A.B., 1925, University of Missouri; M.A., 1952, Los Angeles State College.
- 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.
- Martha L. Brockman (1951)..... Assistant Professor of Education
B.A., 1938, Eastern Washington College of Education; M.A., 1944, Ed.D., 1953,
Teacher's College, Columbia University.
- Frances Cake (1950)..... Associate Professor of Physical Education
B.A., 1930, University of Richmond; M.S., 1941, Wellesley College; Ph.D., 1949,
University of Southern California.
- 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 Librarian-
ship, 1942, University of California; additional graduate study, Johns Hopkins
University, University of California at Los Angeles, University of Southern
California.
- 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 Cali-
fornia at Los Angeles.
- Joseph C. Cunningham (1951)..... Assistant Catalog Librarian
B.A., 1949, University of Oregon; B.L.S., 1950, University of California.
- Maurice Dance (1950)..... Assistant Professor of Economics
B.A., 1947, University of Washington; M.S., 1949, University of Wisconsin; addi-
tional graduate study, University of Wisconsin.
- William E. Daywalt (1948)..... Professor of Art
B.E., 1940, M.A., 1944, Ed.D., 1949, University of California at Los Angeles; addi-
tional 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.
- 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).....Associate Professor of Psychology
B.S., 1927, M.A., 1928, New York University; Ph.D., 1936, Columbia University.
- 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.
- George W. Duncan (1950).....Associate Professor of Engineering
B.S., 1913, Massachusetts Institute of Technology; M.S., 1933, University of Southern California; Registered Professional Engineer, State of 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 Education
B.A., 1930, Holy Cross College; 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.
- William R. Eshelman (1951).....Serials 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 Educ.
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.
- 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 Admin.
B.A., 1941, B.S., 1942, M.S., M.Ed., 1953, University of Southern California; Certified Public Accountant, 1948, California.
- Louis G. Gardemal (1950).....Assistant 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.
- William Gellermann (1949)..... Professor of Education
B.A., 1922, M.A., 1924, University of Washington; Ph.D., 1938, Columbia University.
- 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)..... Assistant Professor of History
B.A., 1937, M.A., 1940, Ph.D., 1949, University of California at Los Angeles.
- Ann L. Greer (1949)..... 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.
- Ciwa Griffiths (1951)..... Assistant Professor of Education
B.A., 1932, San Francisco State College; M.S., 1941, Massachusetts University; additional graduate study, University of Southern California, University of California at Berkeley, Wayne University.
- 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)..... Assistant Professor of Business Admin.
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)..... Assistant 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.
- 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.
- 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., University of Wisconsin.
- Roland D. Hutchinson (1950).....Instructor in Psychology
B.A., 1948, M.A., 1950, University of California at Los Angeles; additional graduate
study, University of California at Los Angeles.
- 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.
- Lois V. Johnson (1950).....Assistant 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.
- Felix J. Jumonville, Jr. (1948).....Assistant Professor of Physical Education
B.S., 1942, Louisiana State University; M.S., 1949, Ed.D., 1952, University of
Southern California.
- Phyllis S. Justice (1953).....Assistant Activities Officer
B.A., 1944, University of Akron; M.S., 1952, University of Southern California;
additional graduate study, University of Southern California.
- Betty H. Kazan (1952).....Assistant Professor of Microbiology
B.S., 1941, University of Utah; M.S., 1948, Ph.D., 1948, University of Southern
California.
- Willis M. Kenealy (1952).....Professor of Education
B.A., 1934, M.S.Ed., 1936, University of Southern California; LL.D., 1951, California
College of Commerce; additional graduate study, University of California
at Berkeley.
- 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
College, University of Southern California.

- Robert V. Kovacic (1949) _____ Assistant Professor of Art
B.A., 1949, San Diego State College; additional graduate study, University of California at Los Angeles.
- John R. Kudrna (1950) _____ Assistant Professor of Education
B.S., 1940, Nebraska State Teachers College; M.A., 1943, Colorado State Teachers College; additional graduate study, Colorado State Teachers College.
- 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.
- Vernon F. Leidig (1950) _____ Lecturer in 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.
- 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.
- 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, University of Illinois; additional graduate study, University of Illinois.
- 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, Parsons College.
- 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.
- Warner K. Masters (1949) _____ Business Manager
B.S., 1949, University of Southern California; additional graduate study, University of Southern California.
- Leonard G. Mathy (1950) _____ Associate 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.
- Chester R. Milham (1949).....Executive Dean
B.A., 1914, Baker University; M.A., 1933, Ph.D., 1938, University of Southern California.
- Marguerite Mochel (1949).....Assistant 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.
- John A. Morton (1948).....Dean of Instruction
B.S., 1936, M.S., 1939, University of Oregon; Ed.D., 1945, Stanford University.
- Hugh E. Mullins (1950).....Assistant Professor of Music
B.M.Ed., 1945, Milliken Conservatory of Music; Ph.D., 1951, University of Southern California.
- 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; Fullbright Fellow, 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.
- 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).....Assistant Professor of Economics
B.A., 1936, Eastern Washington College of Education; B.S., 1939, University of Washington; M.A., 1949, University of Minnesota; additional graduate study, University of Minnesota.
- Dorothy O'Brien (1951).....Assistant Professor of Physical Education
B.S., 1927, University of Washington; M.Ed., 1941, Montana State University.
- Jesse L. Ott (1952).....Assistant in Education
A.A., 1950, Los Angeles City College; B.A., 1952, Los Angeles State College; additional graduate study, Los Angeles State College.
- Mary Alice Peairs (1952).....Circulation 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)..... Associate 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.

Jane Koehler Plank (1949)..... Assistant Professor of Music
B.S., 1944, State Teachers College (New York); M.A., 1948, Columbia Univer-
sity; additional graduate study, Juilliard School of Music, University of Buffalo.

Eleonora Preston (1951)..... Assistant Professor of Education
B.S., 1935, Framingham Teachers College; M.Ed., 1949, Boston University; addi-
tional 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 Cali-
fornia 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.D., 1927, University of Chicago; M.A., 1930, Ph.D., 1938, Ohio State
University; additional graduate study, University of Southern California.

Warren E. Reeves (1950)..... Assistant 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.

Gladys J. Rohde (1951)..... Order Librarian
B.A., 1940, University of Illinois; M.S., in L.S., 1951, University of Southern
California.

Ronald Case Ross (1950)..... Lecturer in Nature Study
B.A., 1931, University of California at Los Angeles; M.S., 1932, California Institute
of Technology.

Hudson Roysher (1950)..... 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, Univer-
sity of Southern California.

- 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)..... Assistant 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.
- 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.
- Paul T. Scott (1950)..... Associate Professor of Journalism
B.A., 1930, Indiana University; M.A., 1938, University of Iowa; additional graduate study, University of Michigan.
- Gerald Q. Shepherd (1950)..... Assistant Professor of Education
B.A., 1926, Simpson College; M.S., 1933, Iowa State College; graduate study, University of Southern California.
- Frederick B. Shroyer (1950)..... Assistant Professor of English
B.A., 1948, M.A., 1949, University of Southern California; additional graduate study, University of Southern California.
- 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.
- Keith D. Snyder..... Professor of Music
B.Mus.Ed., 1931, Nebraska Wesleyan University; M.Mus., 1937, Syracuse University; additional graduate study, Teachers College, Columbia University.
- James J. Stansell (1951)..... Assistant 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.

- Nanette A. Taylor (1952).....Assistant Professor of Physical Education
B.S., 1944, University of Wisconsin; M.S., 1947, University of California at Los Angeles; additional graduate study, University of California at Los Angeles.
- Alice Thompson (1951).....Assistant Professor of Psychology
A.B., 1932, Northwest Nazarene College; M.A., 1948, University of California at Los Angeles; additional graduate study, Sorbonne, University of Paris.
- Maurine Timmerman (1950).....Assistant 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.
- Ernest W. Toy, Jr. (1952).....Assistant Order Librarian
B.A., 1947, College of St. Thomas; M.S.L.S., 1948, University of Southern California; additional graduate study, University of California at Los Angeles.
- 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).....Assistant Professor of Art
B.A., 1942, Colorado State College of Education; additional study, Art Center School, California School of Art.
- Samuel E. Urner (1950).....Professor of Mathematics
Ph.B., 1906, Baker University; Ph.D., 1911, Harvard University.
- Lloyd S. Van Winkle (1951).....Assistant Professor of Education
B.Ed., 1933, Eastern State College; A.M., 1941, University of Illinois; Ed.D., 1949, Colorado State College of Education.
- Charles W. Voris (1952).....Assistant Professor of Business Administration
B.S., 1947, M.B.A., 1948, University of Southern California; Ph.D., 1952, 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.
- 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.
- Stephanie Weil (1951).....Instructor in Art
B.A., 1950, University of California at Los Angeles; additional graduate work, University of California at Los Angeles, University of Southern California.

- 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, University 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.
- 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 and Sociology
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) _____ Associate Professor of Education
B.A., 1927, Pomona College; M.A., 1929, Ph.D., 1931, Harvard University.
- Albert R. Wise (1950) _____ Assistant Professor of Physical Education
B.S., 1947, M.A., 1948, Ohio State University; Ed.D., 1952, University of Southern California.

PART-TIME FACULTY

Acke, Anna, B.A.	Education
Allen, Jay, A.B.	Police Science
Anderson, Forrest, Sc.D.	Psychology
Anderson, Robert, M.S., C.P.A.	Accounting
Appleby, Max, Ph.D.	Education
Arnheim, Roy, M.S.	Education
Ashley, John, M.A.	Economics
Ballard, Alice, Ph.D.	Government
Barber, Helen, B.Ed.	Education
Bell, Archibald W., Ph.D.	Zoology
Bennett, Donald	Police Science
Berg, George O., M.D.	Physical Education
Berkey, Frances E., Ph.D.	Art
Biden, Margaret, M.S.Ed.	Education
Blick, James, M.A.	Geography
Brauner, Joseph, M.A.	Nature Study
Brown, Marjorie, M.A.	Education
Brown, Mildred, R.N., M.S.	Nursing
Brown, Robert, Ph.D.	Philosophy
Burger, Oak, B.A., B.S.	Police Science
Burks, Harold, M.A.	Education

Byberg, Esther, B.S.	Nursing
Cady, Osman H., Ph.D.	Chemistry
Carthew, Arthur W., M.A.	Geography
Carney, Richard, M.A.	Government
Cooper, Norman, Ph.D.	Biological Science
Cordray, William, M.A.	History
Davis, Edward	Police Science
DeWolfe, Robert, M.B.A.	Management
Diehl, Adam, Sc.D.	Education
Dixon, Evander, M.S.	Education
Dochterman, Lois, B.M.E.	Music
Duncan, Merrill, B.S.	Police Science
Eckardt, Lorraine, B.A.	Music
Ennen, James, B.A.	Physical Education
Eversoll, John, B.A.	Marketing
Foley, Louis, B.S.	Education
Folsom, Hannah, M.A.	Language Arts
Franke, Lois, B.A.	Art
Frym, Marcel, Ph.D.	Sociology
Fulton, James L.	Police Science
Gannon, Joseph F., Ed.D.	Education
Garner, Jefferson L., Ed.D.	Education
Geiser, Peter, M.S.W.	Sociology
Goerke, Lenor S., M.P.H., M.D.	Science
Gooder, Glenn C., Ph.D.	Language Arts
Goodfellow, Harold, M.B.A.	Finance
Gooding, Freda E., B.S., R.N.	Nursing
Gourley, Bruce, LL.B.	Police Science
Harper, Wilma, B.A.	Education
Hathcock, Edward, B.A.	Real Estate
Hawk, Sara, Ph.D.	Psychology
Haygood, J. Douglas, Ph.D.	Psychology
Henderson, Norman, M.A.	Education
Hengerer, Gertrude, Ph.D.	Sociology
Higham, Eileen, Ph.D.	Psychology
Hodge, Harold, M.A.	Education
Houghton, Robert	Police Science
Hunter, William, Ph.D.	Psychology
Hyman, Joseph, B.A., C.P.A.	Accounting
Hymanson, William, M.A.	Music
Iannone, Nathan, B.S.	Police Science
Ireland, Frank L.	Police Science
Kasza, William, B.A.	Art
Kinnett, D. Eugene, M.B.A.	Work-Study
Kirkpatrick, Bruce, M.A.	Education
Koenig, Walter R., B.S.	Police Science
Kogon, Bernard, M.S.	Sociology
Large, Joseph, M.A.	Language Arts
Lamona, Eunice, R.N., Ph.N.	Nursing
Long, Emmett, M.A.	Language Arts
Lucas, Winifred, B.A.	Psychology
Manchester, Frederick, Ph.D.	English
McDonald, Blanche, B.A.	Education
Merrill, Foster C., Ed.D.	Education
Meyers, Eunice, A.B.	Education
Moritz, Charles, Ph.D.	Biological Science
Mullin, Warren, LL.B.	Insurance
Myers, Marvin, Ph.D.	Psychology
Norrbom, Alonzo	Transportation

Norris, Dorothy, Ph.D.	English
Novak, Elizabeth, B.A.	Home Economics
Patterson, Ruth W., M.S.	Education
Podjar, Sonia, B.S.	Education
Podoski, Joseph, M.S., M.A.	Economics
Pollich, Raymond E., Ed.D.	Education
Puthuff, Robert	Police Science
Quilliam, Vernon, M.A.	Management
Quinn, Ruth W., B.E.	Education
Roth, Feri, Mus.Doc.	Music
Rubin, Edward, LL.B.	Law
Ruhl, Robert, M.A.	Education
Salaway, Ralph, M.S.	Education
Schutz, John, Ph.D.	Government
Senn, Charles, B.S.	Public Health
Shneidman, Edwin, Ph.D.	Psychology
Short, Dorothy, M.A.	Music
Shostrom, Everett, Ph.D.	Psychology
Smedley, Harlan, A.B.	English
Souci, Katherine, M.A.	Education
Springer, Doris, Ph.D.	Psychology
Teicher, Joseph, M.D.	Psychology
Thomes, Mary M., M.S.	Nursing
Valentine, Lloyd, M.A.	Economics
vanderBie, Chauncey, M.A.	Education
Van Slooten, Henry, M.A.	English
Varnum, Walter, Ph.D.	Education
Walton, Frank	Police Science
Warick, Edith, B.S.	Art
Warren, Elizabeth, M.A.	Education
Watson, DeWitt, Ph.D.	Foreign Trade
Wheeler, Douglas, Ph.D.	Audiology
White, James, M.B.A., C.P.A.	Accounting
Wilson, Donald, Ed.D.	Language Arts
Woodhouse, Edwin, Ph.D.	Botany
Young, James, Ph.D.	Language Arts

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.

RECOGNITION

The Los Angeles State College is authorized by the State Department of Education to grant the bachelor's degree and the master's degree in the various programs described in this bulletin. Credits and degrees earned at the college are acceptable to the University of California as well as to other colleges and universities in the State of California. Since most universities are guided by the recommendation of the State University, graduates of Los Angeles State College should anticipate no difficulty in having the degree accepted at colleges and universities outside of the State of California.

EXTENDED DAY CLASSES

Extended day classes are maintained during the late afternoon and evening hours for the purpose of providing 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 to the completion of requirements for degrees or credentials, or the classes may be taken for cultural and intellectual improvement.

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

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 requirements without including some day courses should consult the chairman of the division in which they expect to major before outlining their program.

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 a degree or as a credential candidate. 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 36 and 37.

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. Transcripts are not necessary during 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 \$7.50 per unit (subject to change) is charged. For more details, write to the Dean of Educational Services.

EXTENSION PROGRAM

In order to serve more adequately the needs of the community, the college cooperates with off-campus organizations and groups in providing instruction and arranging extension classes. This service is given in response to the expressed needs of each group applying for it, and is given only when the group is sufficiently large to finance the instruction. A minimum of 20 students is usually required in order to establish a class.

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 or former employers 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 1,600 capacity, and various other administrative and instructional buildings.

LIBRARY

The State College Library occupies six buildings adjacent to North Heliotrope Drive. The main building provides bookstacks which are open to students and faculty members, and a reserve reading room. The reference and periodical reading rooms together form a center for bibliographic work in conjunction with the public catalog and periodical indexes. The library is open on all school days from 8 a.m. to 9 p.m., except Friday when it closes at 5 p.m.

The book collection now numbers more than 35,000 volumes selected for upper division and graduate students. Included in this total are 6,000 volumes of bound periodicals, and a collection of juvenile books. The 617 periodicals, newspapers and indexing services currently received include the most important California and federal public document series. Special attention is being given to the development of a well-rounded collection of reference books, periodical indexes and other bibliographic aids, which now total 3,000 volumes.

In addition to the 80,000 volumes of the Los Angeles City College Library, the State College Library is able to draw on the varied resources of the Los Angeles area, which is one of the Nation's great library centers. Among the libraries available to students are two large university libraries, the Los Angeles Public Library, numerous college and special libraries, and the world-famous collections of the William Andrews Clark Library and the Huntington Library. Books may be borrowed, on interlibrary loan, from the California State Library at Sacramento and from county libraries. Students are encouraged and actively aided in using the bibliographical resources of the area.

Eight graduate librarians and six assistants administer the service of the library, with the part-time assistance of 10 students. Librarians are on duty at the reference and periodicals desks to assist students in the use of the Public Catalog and other reference facilities.

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 of each student on the campus as soon as possible after entrance to the college.

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.

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.

In addition, appointments are made with all education majors for a physical check-up (including a chest X-ray) during their first semester of attendance.

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 students who are members of the Associated Student Body are eligible for membership in the Associated Women Students organization.

Extended Day Students

All students taking their entire program in late afternoon or evening classes are members of the Extended-Day Student Body. Their calendar of student activities includes monthly social and cultural events.

STUDENT ORGANIZATION

The student may elect membership in many of the special interests groups, such as the Art Society, English Club, 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 inter-fraternity 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.

Los Angeles State College is a member of the California Collegiate Athletic Association. Other members of the conference are Santa Barbara College, George Pepperdine College, San Diego State College,

California Polytechnic College, and Fresno State College. The conference recognizes champions in football, basketball, baseball, track, wrestling, gymnastics, golf, swimming, and tennis.

The college fields teams in 12 intercollegiate sports. 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 student newspaper published weekly by the Associated 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.

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 semester. 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.

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.

Institute of International Education: Fellowships for graduate study abroad in 1953-54 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 are eligible to apply.

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.

Recreation Directors' Association Scholarships: 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.

Special Education: 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. Additional scholarships in this area of study are available from time to time.

Teacher Education Scholarships of the California Congress of Parents and Teachers: Four \$150 scholarships per year are available to elementary education majors.

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.

Burleigh 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.

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.

ADMISSION POLICIES

APPLICATION FOR ADMISSION

All students not in attendance during the regular session preceding the semester in which admission is desired must make formal application to the Admissions Office on the form provided for that purpose. Application for admission should be made as early as possible. The Admissions Office cannot guarantee the processing of applications received after the published deadline. Adult students who wish to enroll for late afternoon, evening and Saturday morning classes for six units or less need not file an application for admission unless they wish to be admitted to a degree or credential program.

ADMISSION OF UNDERGRADUATE STUDENTS

In order to qualify for admission to Los Angeles State College as a regular student an applicant must have completed a minimum of 54 units of acceptable academic work at accredited institutions of collegiate level, with a "C" average on all work undertaken. No specific pattern of courses is required. However, students intending to work for a degree at this college should plan their lower division work to meet graduation requirements. See page 41.

Students who have been disqualified from another college may petition for admission to Los Angeles State College after one semester has elapsed following the time of their disqualification.

ADMISSION OF GRADUATE STUDENTS

This college recognizes a four-year bachelor's degree earned at an accredited college or university as meeting the requirements for graduate status. Graduate status does not constitute admission to candidacy for the master's degree, which may be granted upon meeting the requirements described in the appropriate sections of this catalog.

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 a credential 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 page 66.

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, Assistant Professor of Government at Los Angeles State College, serves also as faculty adviser to the international students.

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 a limited program of six units or less in late afternoon, evening or Saturday morning classes, and who do not intend to work for an advanced degree or credential issued by the college, need not file application or transcripts with the Admissions Office. Students admitted through this procedure are classified as special students and are not regarded by the college as degree or credential candidates.

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 CREDITS

A student who wishes to be considered as a degree or credential candidate must make application to the Admissions Office for an evaluation of credits. There is a \$2 fee for this service. The evaluation will list the amount of transfer credit accepted by the Los Angeles State College. 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.

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

- Regular A student who has been formally admitted to the college on the basis of complete transcripts on file in the Admissions Office.
- Special A student who has not formally matriculated with the college. Special students are limited to six units in late afternoon, evening, or Saturday classes unless approved for additional courses by the Admissions Officer.

CREDIT FOR MILITARY SERVICE

The college offers 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 twenty, not more than 12 of which may be transferred from another college or university. Extension course credit does not apply toward the minimum graduate 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.

GENERAL REGULATIONS

REGISTRATION PROCEDURE

At the beginning of each semester, every student is required to file with the Registrar, upon a date to be fixed by the Registrar, a detailed 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 grades 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 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 students may take 16 or fewer units 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.

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 students may be permitted to carry Los Angeles City College classes as part of their study list. 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, 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.

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 may not ordinarily register in graduate courses (200 or above) unless they have a registration permit indicating that they are graduate students. However, certain qualified seniors may petition prior to registration for admission to graduate courses.

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.

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 or courses.

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

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.

Repeated Courses

Students may repeat courses in which they received marks of "D," "F," or "I," and receive credit for the second mark attained.

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 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.

GRADUATION REQUIREMENTS

In addition to the specific academic requirements described on the following 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.

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 19, 1953, and March 25, 1954. 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) and (5) 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. Exceptions to the above must be approved by the Committee on American Institutions.

GENERAL FEES

Registration	
Tuition and service fee, per semester (7 units or more)	\$14.00
Student activity fee, per semester	* 10.00
	\$24.00
Registration	
Tuition and service fee, per semester (4, 5, or 6 units)	\$14.00
Student activity fee, per semester	1.00
Registration	
Tuition and service fee, per semester (3 units or less)	\$7.50
Student activity fee, per semester	1.00
Other Fees	
Extension, per unit	\$7.50
Change of program	1.00
Diplomas, for graduating seniors	3.00
Evaluation of credits for entrance	2.00
Late registration	2.00
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
Transcript of records (after first copy)	1.00

Auditors pay the same fees as other students. There is no additional fee for non-residents.

Upon withdrawal from the college, a portion of the fees may be returned according to a schedule set by the State Administrative Code. Application for such refund must be made at Business Office before deadline date each semester. See Business Office for details.

* Students whose total registration is in extended day classes pay a \$1.00 student activity fee.

REVISION OF FEES	
Registration	
Tuition and service fee, per semester (7 units or more)	\$15.00
Student activity fee, per semester	10.00
	\$25.00
Registration	
Tuition and service fee, per semester (4, 5, or 6 units)	\$15.00
Student activity fee, per semester	1.00

DEGREE REQUIREMENTS

GENERAL REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

The bachelor of arts degree is offered in Art, Biological Science, Business Administration (Accounting, Executive Secretarial, Finance, Industrial Management, Labor Relations and Personnel Management, Marketing and Trade, Small Business, Transportation and Foreign Trade, Special Business), Drama, Economics, Elementary Education, English, Geography, Government (Government Service, Pre-law, International Relations, Pre-graduate), History, Home Economics, Industrial Arts, Journalism, Kindergarten-Primary Education, Language Arts, Mathematics, Music, Physical Education, Physical Science, Psychology (General, Counseling, Industrial Psychology), Social Science, Social Welfare, Sociology, Spanish, and Speech.

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

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

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

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

a. A course or courses involving American history and government, the Constitution, and American institutions and ideals.

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 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
 - a. A course or courses in the biological sciences.
 - b. A 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
 5. An understanding of the values and value systems of man to be fulfilled by courses in either
 - Literature, philosophy or both fields..... 6 units
 6. Experiences in the arts to be fulfilled by courses in the:
 - Fine or practical arts 3 units
 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
 - a. Health or hygiene (2 units)
 - The above must include instruction in fire prevention, narcotics, alcohol, drugs, and safety.
 - b. Physical education activities (2 units)
 8. Additional courses in general education 6 units
 - 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 of special education. 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 in Audiology, Engineering, Police Science, Nursing, Medical Laboratory Technology, 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 41.

- 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 _____ 124 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 Board of Examiners for Vocational Teachers and who meet the requirements established in the Education Code.
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 41.
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.

GENERAL REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

The purposes of the master of arts degree at the Los Angeles State College of Applied Arts and Sciences are the expansion of the student's knowledge in the field of education and increased competency in teaching and administration in public schools.

The degree is based upon a broad general education and an emphasis on particular fields of concentration in undergraduate work. The degree is offered in the fields of concentration listed below:

Administration—Elementary School, see page 97.	Government, see page 101.
Administration—Secondary School, see page 97.	Guidance, see page 101.
Art, see page 98.	Health Education, see page 101.
Commerce, see page 98.	History, see page 102.
Curriculum and Supervision—Elementary School, see page 99.	Language Arts, see page 102.
Curriculum and Supervision—Secondary School, see page 99.	Music, see page 102.
Economics, see page 100.	Physical Education, see page 103.
English, see page 100.	Psychology, see page 103.
Foreign Language, see page 100.	Social Science, see page 103.
Geography, see page 100.	Sociology, see page 104.
	Special Education, see page 104.
	Speech, see page 104.
	Teaching—Elementary, see page 105.
	Teaching—Secondary, see page 105.

Minimum Requirements

1. An appropriate baccalaureate degree from an approved institution.
2. A grade point average of 2.0 in the graduate degree program and in the field of concentration.
3. Twenty-four semester hours in residence at the Los Angeles State College.
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. Completion of all requirements for, or 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 is prescribed by each division of the college offering graduate work toward the degree.
10. A maximum of 6 units of credit may be allowed for (a) acceptable work done at other colleges, (b) extension, (c) student teaching, or any combination of the above.

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. (Candidates should make application for candidacy as soon as they begin their graduate work for the degree.)
2. Each candidate will be assigned an adviser by the chairman of the division in which he elects to complete his field of concentration.
3. 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.
4. 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.

BACCALAUREATE MAJORS

(Fields of Concentration Leading to a Degree)

(See page 66 for teaching majors.)

BACCALAUREATE MAJOR IN ART

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Basic Courses:

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

Upper Division

Art 101A <i>or</i> B—Art in Modern Life	3 units
Art 102A <i>or</i> B—Introduction to Craft Materials	2 units
Art 103AB—Three-Dimensional Design	4 units
Art 104A—Advanced Painting	3 units
Art 164A <i>or</i> B—Life Composition	2 units
Select from the following	10 units

- Art 101A *or* B—Art in Modern Life (3)
- Art 104B—Advanced Painting (3)
- Art 111A *or* B—Art History *or*
- Art 112A *or* B—Art History (3)
- Art 114—Furniture Design and Construction (3)
- Art 116—Theater Design (2)
- Art 120—Crafts for Elementary School (2)
- Art 127AB—Crafts (Advanced) (3-3)
- Art 132AB—Design for Industry (2-2)
- Art 133A—Advertising Design (2)
- Art 134A—Landscape (Watercolor) (3)
- Art 143A—Interior Design (2)
- Art 175—Costume Design (2)
- Art 176AB—Metalsmithing—Forging (2-2) *or*
- Art 177AB—Metalsmithing—Jewelry (2-2) *or*
- Art 178AB—Metalsmithing—Raising (2-2)
- Art 179AB—Art Display and Portfolio (2-2)
- Art 190A—Industrial Graphics (2)

BACCALAUREATE MAJOR IN AUDIOLOGY

See page 42 for graduation requirements for the B.S. degree.

A total of 128 units is required for graduation with a major in audiology. The major for the B.S. degree in 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, or social science.

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	2-5 units
Select from the following	12 units
Audiology 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 (3-5)	
Audiology 199—Special Studies (1-5)	
Audiology 198—Field Assignment and Reports (1-4)	
Speech 131—American Phonetics (2)	
Speech 134—Introduction to Speech Therapy (3)	

BACCALAUREATE MAJOR IN BIOLOGICAL SCIENCE

See page 41 for 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
(Courses recommended but not required include physiology, organic chemistry and physics)	

Upper Division

Botany 103—Plant Classification	3 units
Zoology 110—Genetics	2 units
Micro. 100AB—Principles of Microbiology	4 units
Select from the following with the approval of an adviser; in area of concentration	13 units
Botany 108—Plant Ecology (3)	
Botany 110—Plant Physiology (4)	
Botany 120—Plant Anatomy (4)	
Botany 126—Histological Methods (3)	
Conservation 141—Conservation of Wild Life (3)	
Micro. 103AB—Medical Bacteriology (5)	
Micro. 105—Viruses (2)	
Micro. 122—Hematology (3)	
Micro. 123—Parasitology (3)	
Micro. 125—Introduction to Pathology (2)	
Nat. Study 120—Nature in California (3)	
Zoology 105—Mammalian Embryology (4)	
Zoology 106—Comparative Vertebrate Anatomy (4)	
Zoology 107AB—Mammalogy (2-2)	
Zoology 123AB—Birds of California (2-2)	
Zoology 126—Histological Methods (3)	
Zoology 128—Arthropod Vectors (3)	
Botany, Microbiology or Zoology 199 (1-2)	
Botany, Microbiology or Zoology 190AB	2 units

BACCALAUREATE MAJOR IN BIOLOGICAL SCIENCE

(Laboratory Technicians)

See page 42 for graduation requirements for the B.S. degree.

A total of 128 units is required for graduation with a major in biological science. The following program has been approved for training of medical laboratory technicians by the California state agencies involved in certification.

Lower Division

General Microbiology or 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	1 unit
Chemistry 108 and 109—Biochemistry	8 units
Zoology 126—Histological Methods	3 units
Microbiology 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.

BACCALAUREATE MAJOR IN BUSINESS ADMINISTRATION FIELDS

See page 41 for graduation requirements for the B.A. degree.

In order to secure background, perspective, and basic training, all business majors take a common core of lower and upper division courses, and select one of the options below.

Lower Division *

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

* 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 the 6 units 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.

Upper Division (Core requirements)	28-29 units
Business 100B (or 102)*—Management Accounting (3-4)	
Business 103—Corporation Finance (3)	
Business 104**—Principles of Marketing (3)	
Business 106**—Business and Production Management (3)	
Business 108B—Commercial Law (3)	
Business 109**—Applied Business Statistics (4)	
Business 131—Business Cycles and Forecasting (3)	
Economics 103—Money, Credit and Banking (3)	
Economics 110—Economics of the Business Firm (3)	

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 skill can be self-acquired in the laboratory during free hours or by taking Business 112. (See an adviser for details.)

Option 1—Accounting

Core requirements (to include a "C" grade or better in Business 102) (see page 48)	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 (4)
- Business 125—Corporation Accounting (2)

Option 2—Executive Secretarial

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 48)	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 3—Finance

Core requirements (see page 48)	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 139—Real Estate Principles (3)

* Accounting and Finance majors take Business 102, Intermediate Accounting.
 ** Should be taken during first year in residence.

Option 4—Industrial Management

Core requirements (see page 48)	28 units
Business 160—Problems of Production and 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)

Option 5—Management of Small Business

Core requirements (see page 48)	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 Management

Core requirements (see page 48)	28 units
Economics 102—Labor Economics	3 units
Business 160—Problems of Production 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)
- (Electives in industrial psychology are recommended)

*Option 7—Marketing and Trade***A. Marketing and Merchandising**

Core requirements (see page 48)	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

Core requirements (see page 48)	28 units
Business 150—Foreign Trade Practices	3 units
Business 151—Commodities of International Commerce	3 units
Business 152—International Trade Principles	3 units
Business 153—Principles of Transportation	3 units

Select two courses from the following:

- Business 145—Wholesaling (3)
- Business 154—Traffic Management (3)
- Business 155—Motor Transportation Practices (3)

Option 8—Special Business (for Individual Needs)

Core requirements (see page 48) 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 objectives of the students.

BACCALAUREATE MAJOR IN DRAMA

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Acting Fundamentals (or equivalent) 3 units
Theater Crafts (or equivalent) 3 units

Upper Division

Drama 100—History of the Theater 3 units
Drama 101—Television Techniques 3 units
Drama 110A—Advanced Acting 3 units
Drama 160A—Principles of Directing 3 units
Lang. Arts 197—Language Arts and the Democratic Tradition 2 units
Select from the following 10 units

- Drama 102—Advanced Technical Production (3)
- Drama 110B—Advanced Acting (3)
- Drama 116—Theater Design (2)
- Drama 134—Set Lighting (2)
- Drama 175—Costume Design (2)
- Drama 176ABCD—Techniques for the Information Program in Television (2-2-2-2)
- Drama 196ABCD—Special Projects in Drama and Television (3-3-3-3)
- Speech 120—Theories and Techniques of Oral Interpretation (3)
- Speech 130—Advanced Voice and Diction (2)
- English 124—Interpreting Dramatic Literature (3)
- English 117J—Interpreting Shakespeare (3)
- Lang. Arts 164M—Mass Communication Arts (2)

BACCALAUREATE MAJOR IN ECONOMICS

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Principles of Economics 6 units
Principles of Accounting 3 units
Mathematics 3 units
(Courses in Economic Geography, History, and Government 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—Corporation Finance 3 units
Economics 133—Public Finance 3 units
Economics 135—Economic Fluctuations 3 units
Electives in Economics to be selected in conference with adviser 6 units

* Those taking Economics 103 to remove a lower division deficiency will also take Economics 130 (Monetary Management) or another upper division course to be selected in conference with a major adviser.

BACCALAUREATE MAJOR IN ELEMENTARY EDUCATION

See page 77.

BACCALAUREATE MAJOR IN ENGINEERING

See page 42 for graduation requirements for the B.S. degree.

A total of 132 units are required for a B.S. degree in engineering.

The engineering curricula in the Los Angeles State College are designed to meet the needs of industry and business for engineers on a level between the two-year technical institute student and the graduate engineer. The functional and practical approach to construction, electrical, power, production, and plumbing engineering is used.

All students take the same lower division program and an upper division core; then specialize by taking one of the engineering options below.

Lower Division

Mathematics	12 units
(College Algebra, Analytic Geometry, Calculus—First Course, Calculus—Second Course)	
Physics	8 units
(Mechanics and Heat, Magnetic Electricity, Light and Sound)	
Economics	3 units
Chemistry (General)	5 units
Descriptive Geometry	3 units
Drawing (Engineering)	2 units
Engineering Materials of Construction	3 units
Manufacturing Processes	3 units
Plane Surveying (Required in Option 1)	6 units
Electrical Drafting (Required in Option 2)	1 unit
Machine Drafting (Required in Options 3 and 4)	3 units
Architectural Drawing (Required in Option 5)	3 units

Upper Division Core

G.E. 101AB—Strength of Materials	4 units
G.E. 102AB—Engineering Mechanics	6 units
G.E. 103—Fluid Mechanics	3 units
G.E. 105—Thermodynamics	3 units
E.E. 101—Electrical Circuits	4 units
Economics 102—Labor Economics	3 units
English 106A—Pre-professional Writing	3 units

Option 1—Construction Field

C.E. 101—Stresses in Structures	3 units
C.E. 103—Reinforced Concrete	3 units
C.E. 105—Specifications and Cost Estimating	3 units
C.E. 106—Foundations and Soil Mechanics	3 units
C.E. 107—Construction Equipment and Methods	3 units
Geology 101—Principles of Geology	3 units
Business 108A—Commercial Law	3 units

Option 2—Electrical Industrial Field

G.T. 106—Heating, Air Conditioning and Refrigeration	4 units
E.E. 102AB—Electrical Machines I and II	6 units
E.E. 105—Industrial Electronics	3 units
E.E. 110—Industrial Plant Electrical Systems	4 units
E.E. 111—Electric Communication	2 units
E.E. 112—Basic Electronics	3 units
Po.E. 102—Heat—Power	3 units

Option 3—Power Field

G.E. 106—Heating, Air Conditioning and Refrigeration	4 units
E.E. 102AB—Electrical Machines I and II	6 units
E.E. 112—Basic Electronics	3 units
Po.E. 102—Heat—Power	3 units
Po.E. 103—Elements of Machine Design	3 units
Po.E. 107—Machine Design	3 units
Po.E. 110—Power Plant Layout	3 units

Option 4—Production Field

G.E. 106—Heating, Air Conditioning and Refrigeration	4 units
E.E. 102A—Electrical Machines I	3 units
Po.E. 102—Heat—Power	3 units
Po.E. 102—Elements of Machine Design	3 units
Business 160—Problems of Production Management	3 units
Business 163—Motion and Time Study	3 units
Business 164—Production and Material Control	3 units
Business 167—Quality Control	3 units

Option 5—Plumbing Field

G.E. 106—Heating, Air Conditioning and Refrigeration	4 units
C.E. 101—Stresses in Structures	3 units
P.L.E. 101—Fluid Mechanics Lab.	1 unit
P.L.E. 102—Fire Sprinkler Systems	2 units
P.L.E. 103—Plumbing Estimating	2 units
P.L.E. 105—Water Treatment and Sewage Disposal	3 units
P.L.E. 106—Building Codes	2 units
Po.E. 102—Heat—Power	3 units
Business 108A—Commercial Law	3 units
P.H. 120—Sanitation Bacteriology	3 units

BACCALAUREATE MAJOR IN ENGLISH

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Survey of English Literature	6 units
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Upper Division

Select from the following	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 (2)	
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 185A and/or B—Literary Criticism (2-2)	

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 <i>and/or</i> 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

BACCALAUREATE MAJOR IN GEOGRAPHY

See page 41 for graduation requirements for the B.A. degree.

The major in geography is designed to fulfill the purposes both of a liberal education and of vocational preparation in geography or allied fields.

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 105—Cartography	3 units
Geography 115—Physical Geography	3 units
Geography 141—World Resources	3 units
Geography 161—Conservation of Natural Resources	3 units
Regional Geography. Select from list below	6 units
Geography 109—Geography of the Pacific Area (3)	
Geography 121—Geography of Anglo-America (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)	
Other electives in Geography	9 units

BACCALAUREATE MAJOR IN GOVERNMENT

See page 41 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. Preparation for graduate work leading to an advanced degree in government, public administration, or international relations.

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: 6 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 in addition 8 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
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
Economics 110—Economics of the Business Firm	3 units
History 179—Constitutional History of the United States	3 units
English 106A—Pre-Professional Writing	2 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—Pre-graduate Study

Government 103—State and Local Government.....	3 units
Government 105—American Federal Government.....	3 units
Government 112—Political Theory <i>or</i>	
Government 113—American Political Thought.....	3 units
Government 118—American Political Parties and Politics.....	3 units
Government 114—Public Opinion and Lobbies.....	3 units
Select from the following.....	3 units
Government 125—United States Foreign Policy (3)	
Government 126—International Law (3)	
Government 127—International Relations (3)	
Government 128—International Organization (3)	
Select from the following.....	3 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
Government 157—Constitutional Law <i>or</i>	
Government 176—Administrative Law.....	3 units

BACCALAUREATE MAJOR IN HISTORY

See page 41 for graduation requirements for the B.A. degree.

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.

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, ology, or a national literature (e.g., English literature).	

BACCALAUREATE MAJOR IN HOME ECONOMICS

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Elementary Clothing.....	3 units
Textiles.....	3 units
Food Preparation.....	3 units
Meal Planning and Service.....	3 units

Upper Division

Home Economics 101—Advanced Clothing	3 units
Home Economics 115—Marriage and Family Life	3 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—Home Furnishings	3 units
Home Economics 140—Child Care and Training	3 units
Electives in the field of Home Economics or related fields	6 units

BACCALAUREATE MAJOR IN INDUSTRIAL ARTS

The college will offer an industrial arts major and minor in the fall of 1953. See Chairman of Division of Technical Sciences for details.

BACCALAUREATE MAJOR IN JOURNALISM

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Collecting and Writing News	6 units
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Upper Division

Journalism 130AB—News Editing	6 units
Journalism 138—Typography and Mechanics of Newspapers	3 units
Journalism 140—History of Journalism	3 units
Journalism 150—Contemporary Editorial Problems	3 units
Journalism 171—Newspaper Advertising	3 units
Journalism 190—The Press and World Affairs	2 units
Journalism 191—Law of the Press	2 units
Journalism 196—Special Projects in Journalism	2 units
Lang. Arts 197—Language Arts and the Democratic Tradition	2 units

BACCALAUREATE MAJOR IN KINDERGARTEN-PRIMARY EDUCATION

See page 83.

BACCALAUREATE MAJOR IN LANGUAGE ARTS

See page 84.

BACCALAUREATE MAJOR IN MATHEMATICS

See page 41 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
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- 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 114—Vectors and Allied Topics (2)
- Mathematics 115—Differential Equations and Applications (2)
- Mathematics 117AB—Numerical Calculus (3)
- Mathematics 121AB—Advanced Calculus (3-3)
- Mathematics 130—Modern Algebra (3)
- Mathematics 131AB—Mathematical Statistics (3-3)

BACCALAUREATE MAJOR IN MUSIC

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Solfege	4 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	2 units
Music History and Appreciation	4 units
No grade below "C" in lower division work will be accepted for the major.	

Upper Division

Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
From Music 132, 167, 172 <i>or</i> 173—Music History	4 units
Music 160AB—Orchestration	4 units
Music 159A—Introduction to Form Analysis	2 units
Music 161 and 162—Conducting	4 units
Applied (piano, voice, orchestral instruments)	4 units
Music 163A—Counterpoint	2 units
Music electives in field of specialization	6 units

BACCALAUREATE MAJOR IN NURSING

(For Registered Nurses)

See page 42 for graduation requirements for the B.S. degree.

A total of 128 units is required for the B.S. degree in nursing. Major requirements: A nurse who has graduated from an accredited school of nursing and is registered in the State of California may be granted 36 units of credit toward the major in nursing and the fulfillment of the requirements for the B.S. degree. Additional requirements for the completion of the major at the Los Angeles State College are as follows:

Nursing 108—Community Nursing	2 units
Nursing 111—Principles of Nursing Education	2 units
Nursing 112—Nutrition in Family Health Service	2 units

BACCALAUREATE MAJOR IN NURSING

(For Student Nurses)

See page 42 for graduation requirements for the 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

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 140—Drugs and Solutions	3 units
Nursing 141—Pharmacology	3 units

BACCALAUREATE MAJOR IN PHYSICAL EDUCATION

See page 41 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
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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 <i>or</i>	
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. 133—Methods of Coaching Football and Basketball (2)	
P.E. 134—Methods of Coaching Track and Field and Baseball (2)	
P.E. 135—Methods of Coaching Tennis and Swimming (2)	

Select from the following

P.E. 115—Corrective Physical Education (2)	
P.E. 120—Physical Education in Elementary Schools (3)	
Rec.Ed. 161—Social Recreation Leadership (2)	

4-6 units

BACCALAUREATE MAJOR IN PHYSICAL SCIENCE

See page 41 for 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 the following	10 units
Chemistry 106—Advanced Organic Chemistry (3)	
Chemistry 108—Biochemistry (4)	
Chemistry 109—Biochemistry (4)	
Chemistry 113—Advanced Inorganic Chemistry (3)	
Chemistry 114AB—Physical Chemistry (3-1)	
Physics 110—Modern Physics (3)	
Physics 111—Electrical Measurements (3)	
Physics 112—Basic Physical Electronics (3)	
Select from the following	6 units
Cons. 171—Conservation Problems and Practices (3)	
Geology 101—Principles of Geology (3)	
Geography 110—Climatology (3)	
Astronomy 105—History of Astronomy (3)	
Select from the following	6 units
Biol.Sci. 100—Survey of Biological Science (3)	
Botany 110—Plant Physiology (4)	
Cons. 141—Conservation of Wildlife (3)	
Micro. 100AB—Principles of Microbiology (3-1)	
Zoology 110—Genetics (2)	
Zoology 128—Arthropod Vectors (3)	
Chemistry 190AB—Seminar	2 units

BACCALAUREATE MAJOR IN POLICE SCIENCE AND ADMINISTRATION

See page 42 for graduation requirements for the B.S. degree.

A total of 128 units is required for the B.S. degree in police science and administration. A complete program of training is indicated below but a minimum of 48 units will be accepted for the major including not less than 28 units of upper division work.

I. Preservice Training

The general public, law enforcement agencies, and many collegiate institutions throughout the Country are giving increasing attention to the elevation to professional status of the several forms of police work. It is contemplated that appropriate lower division preparation for the major will have been completed before matriculating at Los Angeles State College.

Lower Division

Police Civil and Criminal Law	12 units
Basic Police Organization and Investigation	5 units
Basic Scientific Investigation and Physical Evidence	3 units
Weaponless Defense	3 units

Upper Division

Police Science 131AB—Police Administration	4 units
Police Science 132—Evidence for Law Enforcement Officers	3 units
Police Science 133—Police Personnel Supervision	3 units
Police Science 134—Police Patrol	3 units
Police Science 135—Criminal Procedure	3 units
Police Science 136—Police Ethics	3 units
Police Science 137—Advanced Police Laboratory	3 units
Police Science 138—Advanced Criminal Investigation	3 units
Police Science 139—Traffic Regulation and Control	3 units
Police Science 141—Juvenile Law	3 units
Government 104—Municipal Government	3 units
Government 160—Principles of Public Administration	3 units
Psychology 110—Abnormal Psychology	3 units

II. Inservice Training

This program has been prepared to serve active police officers who wish to improve their proficiency and status through continued study of police work and administration leading to the B.S. degree in police science. It assumes the completion of appropriate lower division work before matriculating at Los Angeles State College. Courses are offered in both day and extended day sessions to accommodate officers on all shifts.

Lower Division

Police Civil and Criminal Law	9 units
Basic Criminal Investigation	3 units
Basic Scientific Investigation and Physical Evidence	3 units
Weaponless Defense	3 units

Upper Division

Police Science 131AB—Police Administration	4 units
Police Science 132—Evidence for Law Enforcement Officers	3 units
Police Science 133—Police Personnel Supervision	3 units
Police Science 134—Police Ethics	3 units
Police Science 135—Criminal Procedure	3 units
Police Science 136—Police Patrol	3 units
Police Science 137—Advanced Police Laboratory	3 units
Police Science 138—Advanced Criminal Investigation	3 units
Police Science 139—Traffic Regulation and Control	3 units
Police Science 140—Police Deployment	2 units
Police Science 141—Juvenile Law	3 units
Police Science 146—Police Teaching Techniques	3 units
Police Science 199—Special Police Problems	3 units
Government 104—Municipal Government	3 units
Government 160—Principles of Public Administration	3 units

BACCALAUREATE MAJOR IN PSYCHOLOGY

See page 41 for graduation requirements for the B.A. degree.

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.

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 18 units with consent of an adviser from Option 1, 2, or 3).

Option 1—General

Psychology 110—Abnormal 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

Option 2—Counseling

Psychology 104—Psychology and Education of the Exceptional Child	3 units
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

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

BACCALAUREATE MAJOR IN SOCIOLOGY

See page 41 for graduation requirements for the B.A. degree.

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.

Lower Division

Introduction to Sociology	6 units
(Recommended: Inductive Logic)	

Upper Division

Core Requirements (regardless of option selected all students must complete the core requirements).

Sociology 164—Social Statistics	3 units
Sociology 167—Development of Sociology	3 units
Sociology 197—Introduction to Social Research	3 units

Option 1—Sociology

Sociology courses chosen with the approval of an adviser	15 units
Courses in allied fields chosen with the approval of an adviser	6 units

Option 2—Social Welfare

Sociology 126—Social Legislation	3 units
Sociology 148—Juvenile Delinquency <i>or</i>	
Sociology 155—Criminology	3 units
Sociology 156—The Field of Social Work <i>or</i>	
Sociology 159—Child Welfare	3 units
Sociology 170—Methods of Social Work	3 units
Sociology 172—Treatment Programs for the Adult and Juvenile Offender	3 units
Sociology 197—Introduction to Social Research	3 units
Select from related areas (with the <i>approval</i> of an adviser)	6 units

BACCALAUREATE MAJOR IN SPANISH

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Elementary Spanish (one year)	8 units
Intermediate Spanish (one year)	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

BACCALAUREATE MAJOR IN SPEECH

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Public Speaking	3 units
Voice Training or Interpretation	3 units

Upper Division

Lang. Arts 100B—Oral Expression	3 units
Speech 110—Advanced Public Speaking	2 units
Speech 111ABCD—Persuasive Speaking	2 units
Speech 120—Theories and Techniques of Oral Interpretation	3 units
Speech 130—Advanced Voice and Diction	2 units
Speech from the following	2 units
Speech 131—American Phonetics (2)	
Speech 129—Bases of Speech (2)	
From upper division Drama	3 units
From English 100 through 106	2 units
From upper division literature courses	3 units
Language Arts 197—Language Arts and the Democratic Tradition	2 units

BACCALAUREATE MAJOR IN SPEECH**(Therapy—Pre-professional)**

See page 41 for graduation requirements for the B.A. degree.

Lower Division

Public Speaking	3 units
Voice Training or Interpretation	3 units

Upper Division

Speech 120—Theories and Techniques of Oral Interpretation	3 units
Speech 129—Bases of Speech	2 units
Speech 130—Advanced Voice and Diction	2 units
Speech 131—American Phonetics	2 units
Speech 134—Introduction to Speech Therapy	3 units
Speech 135—Advanced Speech Therapy	2 units
Speech 136—Clinical Practice	2 units
Audiology 100—Audiology	3 units
Drama 163—Speech and Dramatic Activities in Elementary School	3 units
Lang. Arts 197—Language Arts and the Democratic Tradition	2 units

TEACHING MAJORS AND MINORS AND PUBLIC SCHOOL CREDENTIAL PROGRAMS

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 take the following tests during his first semester at Los Angeles State College:

1. Writing proficiency test.
2. Speech test.
3. Fundamentals test.
4. Health examination, including X-ray.

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.

The student should file an application for candidacy as early as possible after entering Los Angeles State College. Ordinarily, a decision respecting admission to teacher training will be made at the end of the first semester. Approval of candidacy will be in writing from the division chairman. Education courses taken prior to admission to candidacy do not obligate the division to admit or continue the student in the teacher education program.

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.
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. Satisfactory scores on the fundamentals examination.
5. A satisfactory performance on the speech test.
6. A satisfactory performance on the writing proficiency test.
7. Completion of a minimum of 12 units of work in Los Angeles State College.
8. Completion of the course prerequisites for Education 150, Education 151, Education 350, or Education 351 as listed in the course descriptions.
9. 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.
10. 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 will be required to restrict their enroll-

ment 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.

Elementary Education

Students working in **elementary education** or **kindergarten-primary** education will ordinarily be granted a bachelor of arts degree with a major in education at the same time they complete the requirement 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 a composite minor including work in three of the following four areas: art, music, language arts, and physical education. See page 78.

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

Secondary Education

Students working for **general secondary** credentials should earn a degree with a teaching major and a teaching minor. Students who have a major in a field not commonly taught in high school may use two teaching minors from the approved list. In addition candidates 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 and the California 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 six units in subject fields commonly taught in junior and senior high school.

3. Completion of an approved teaching major from one of the following fields:

Art, see page 72.

Business Education, see page 74.

Homemaking, see page 81.

Limited Part-time Credential in Industrial Arts Education, see page 82.

Music, see page 88.

Nursing Education, see page 89.

Physical Education, see page 89.

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 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 132AB—Problems in Secondary Teaching	3 units
Education 151—Directed Teaching	6 units
	<hr/> 21 units

To be certain that all requirements are completed candidates should secure an evaluation from the Admissions Office and advisement in both the major field and in education.

Administration and Supervision

Students enrolling in courses in **administration and supervision** should indicate as early as possible the credential 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.

Residence. To qualify for the college's recommendation for a credential in administration or in supervision, the student must have completed in residence the following minimum amounts of work:

For the elementary administration credential	20 units
For the elementary supervision credential	18 units
For the secondary administration credential	12 units
For the secondary supervision credential	10 units

Residence requirements do not affect students who apply directly to the state department for administrative or supervisory credentials.

Field Work. The course in field work, Education 265 or Education 266, may be taken only after the student has met the following criteria:

1. Two years of successful teaching experience must be verified by letter from principal, supervisor or superintendent.

2. The residence requirements already noted must be completed. Transfer students who intend to apply directly to the state department must have a minimum of six units in residence prior to field work.
3. Personal qualifications indicating probability of successful administrative or supervisory work must be verified by a principal, supervisor or superintendent. This recommendation from a practicing administrator or supervisor will be required of all candidates prior to assignment in field work.
4. Satisfactory recommendations from at least two faculty members at Los Angeles State College will be required prior to assignment in field work.

The field work will be one year courses beginning in the fall semester and ending in the following spring semester. The courses carry 2-4 units of credit. The requirements for each of the administrative and supervisory credentials are listed on pages 72 and 96.

Special Education

Special education credentials are secondary credentials based upon any general teaching credential. Although titled "special secondary credentials" they permit service throughout the entire public school grades. Any student definitely interested in special education should consult with the coordinator of special education as early in his program as possible. The selection of an adviser will facilitate programming. Other courses required for special education credentials may be taken as electives in the program leading to a first credential.

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.

The course sequence requirements for recommendation to the State Department of Education for the various credentials in special education are listed alphabetically on following pages. See "Blind," "Deaf," "Lip Reading," "Mentally Retarded," "Partially Sighted," and "Speech Defects."

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.
- Health and Development Credential—School Audiometrist.
- Health and Development Credential—School Nurse.
- 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.

ADMINISTRATION CREDENTIAL—ELEMENTARY SCHOOL

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 credential.
2. Two years of successful teaching experience in the elementary schools.
3. Thirty 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	2 units
Education 271—Organization and Administration of Public School Systems	2 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Electives selected with the adviser	8 units
	30 units

ADMINISTRATION CREDENTIAL—SECONDARY SCHOOL

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. Two years of successful teaching experience.
3. Eighteen semester hours of graduate work in addition to fulfilling 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 271—Organization and Administration of Public School Systems	2 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	2 units
	22 units

ART

Special Secondary Teaching Major

See also graduation requirements on page 41, and professional education requirements on page 69.

Lower Division

Basic courses: Survey of Art History	2 units
Perspective or Rendering	2 units
Art Structure or Design	2 units
Handicrafts or Ceramics	2 units
Lettering	2 units
	10 units

Upper Division

Art 100—Art for Elementary School	2 units
Art 101A or B—Art in Modern Life	3 units
Art 102A or B—Introduction to Craft Materials	2 units
Art 103AB—Three-Dimensional Design	4 units
Art 104A—Advanced Painting	3 units
Art 111A or B—Art History or	
Art 112A or B—Art History	3 units
Art 134A—Landscape (watercolor)	3 units
Art 164—Life Composition	2 units
Two units chosen from the following	2 units
Art 116—Theater Design (2)	
Art 133A—Advertising Design (2)	
Art 143A—Interior Design (2)	
Art 175—Costume Design (2)	
Six units chosen from the following	6 units
Art 101A or B—Art in Modern Life (3)	
Art 104B—Advanced Painting (3)	
Art 111A or B—Art History (3) or	
Art 112A or B—Art History (3)	
Art 114—Furniture Design and Construction (3)	
Art 120—Crafts for Elementary School (2)	
Art 127AB—Crafts (advanced) (3-3)	
Art 132AB—Design for Industry (2-2)	
Art 176AB—Metalsmithing-Forging (2-2)	
Art 177AB—Metalsmithing-Jewelry (2-2)	
Art 178AB—Metalsmithing-Raising (2-2)	
Art 179AB—Art Display and Portfolio (2-2)	
Art 190A—Industrial Graphics (2)	
	30 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.

ART

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 42, and the professional education requirements on page 69. A teaching minor in a different teaching field and a graduate year including additional professional education are required for the general secondary credential.

ART

General Secondary Teaching Minor

Lower Division

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

Upper Division

Art 100—Art for Elementary School	2 units
Art 102A—Introduction to Craft Materials	2 units
Art 103A—Three-Dimensional Design	2 units
Four units selected from the following	4 units
Art 104A—Advanced Painting (3)	
Art 134A—Landscape (Watercolor) (3)	
Art 164A—Life Composition (2)	

 10 units

BLIND—SPECIAL SECONDARY CREDENTIAL FOR TEACHING

The requirements listed below must be met by all students who expect to obtain the recommendation of the college for the special secondary credential for teaching the blind.

1. Possession of a valid California teaching credential.
2. Typing by the touch system is required.
3. Completion of professional work as follows:

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 167PS—Methods of Teaching Partially Sighted Children	3 units
Education 349B—Observation With the Blind	1 unit
Education 351B—Directed Teaching	4 units

 23 units

BUSINESS EDUCATION

Special Secondary Teaching Major

See also graduation requirements on page 41, and professional education requirements on page 69.

1. Six months of practical experience or 1,000 hours in a business occupation.
2. Education 193Bt, Methods, Curriculum and Evaluation in Typewriting in Secondary School (2); and *either* Education 193Bs, Methods, Curriculum, and Evaluation in Secretarial Subjects in Secondary School (2), *or* Education 193Bb, Methods, Curriculum, and Evaluation in Bookkeeping and Business Education in Secondary School (2).
3. 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 (*a* through *b*):
 - a. 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).
 - b. Beginning typing taken in lower division.
 - c. Principles or elements of accounting taken in lower division, *or* Business 100A.
 - d. Business law or commercial law taken in lower division; *or* Business 108A Commercial Law (3).
 - e. Business 106, Business and Production Management (3).
 - f. Elementary mathematics of accounting and finance or commercial algebra taken in the lower division; *or* Business 101, Business Correspondence (3).

- g. Economic geography taken in the lower division; Geography 141, World Resources (3); Economics 184, Economics of Consumption (3); or Economics 190, Current Economic Problems (3).
- h. Business 104, Principles of Marketing (3); Business 142, Salesmanship (3); or Business 144, Retail Store Management (3).
4. 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):

Accounting:

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 (4)

Business 124—Auditing (4)

Secretarial Training:

Business 110—Secretarial Techniques and Methods (2)

* 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 "3 h" above, other courses in this area must be substituted.)

Business Management:

Business 103—Corporation Finance (3)

Business 108B—Commercial 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—Problems of Production Management (3)

Business 168—Small Business Management (3)

Business 172—Labor Relations and Collective Bargaining (3)

Business 173—Personnel Management (3)

BUSINESS EDUCATION

General Secondary Teaching Major

The general secondary teaching major in business education is the same as the major for the special credential. See also general education requirements on page 41, and professional education requirements on page 69. A minor and a graduate year including additional professional education are required for the general secondary credential.

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

BUSINESS EDUCATION

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Twenty (20) units in business administration and secretarial science subjects at least twelve (12) of which must be in the upper division. Six (6) units in the upper division courses must be in the same subject field (i.e. accounting, or marketing, or secretarial, etc.).

Acceptable lower division courses are:

- Principles of Accounting
- Mathematics of Accounting and Finance
- Beginning Typing
- Intermediate Typing
- Advanced Typing
- Expert Typing
- Stenography
- Intermediate Stenography
- Advanced Stenography
- Transcription English
- Office Methods
- Secretarial Practice
- Adding and Calculating Machines
- Calculating Machines Practice
- Business Law

Acceptable upper division courses are:

- Business 100B—Management Accounting (3)
- Business 101—Business Correspondence (3)
- Business 102—Intermediate Accounting (4)
- Business 104—Principles of Marketing (3)
- Business 106—Business and Production Management (3)
- Business 108AB—Commercial Law (3-3)
- Business 110—Secretarial Techniques and Methods (2)
- 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)

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 (2)
- 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 (2)
 Education 282—Vocational Guidance (2)
- Group D: Sociology 198—Field Assignment and Reports (1-4)
- Group E: Education 188—Psychology and Education of the Excep-
 tional Child (3)
-
- 15 units

DEAF—SPECIAL SECONDARY CREDENTIAL FOR TEACHING

The requirements listed below must be met by all students who expect to obtain recommendation of the college for a special secondary credential for teaching the deaf.

- Possession of a valid California teaching credential.
- Completion of professional work as follows:

Audiology 100—Audiology	3 units
Audiology 110—Audiometry	3 units
Audiology 120—Speech Reading	3 units
Audiology 130—Auditory Training and Hearing Aids	3 units
Education 160AB—Language for the Deaf	4 units
Education 161AB—Speech for the Deaf	4 units
Education 167D—Methods of Teaching Deaf Children	3 units
Education 349D—Observation With the Deaf	1 unit
Education 351—Directed Teaching	4 units

31 units

- Recommended supplementary course:
 Speech 131—American Phonetics (2)

ELEMENTARY SCHOOL—GENERAL CREDENTIAL MAJOR AND COMPOSITE MINOR

See also graduation requirements on page 41.

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 112—Principles, Curriculum and Methods in Elementary Edu-
cation | 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 |
-
- 24 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)
3. Language Arts—Select from the following 3 units
 - English 128—Interpreting Children's Literature (3) (recommended)
 - Drama 163—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)

ENGLISH

General Secondary Teaching Major

See also the general education requirements on page 41, and professional education requirements on page 69. A teaching minor is also required for the general secondary credential.

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
 - 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 England Renaissance (3)
 - English 174—American Realists (3)
 - English 177—Major American Novelists (3)

Select from the following	3 units
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 185A—Literary Criticism to 1700 (2)	
English 185B—Literary Criticism Since 1700 (2)	
Select from the following	2 units
Drama 164D—High School Dramatics (2)	
Journalism 164J—High School Journalism (2)	
Language Arts 197—Language Arts and the Democratic Tradition	2 units
Graduate (Fifth Year)	
Select from approved English literature courses	3 units
Select from approved American literature courses	3 units
	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.

ENGLISH

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Survey of English Literature	3 units
(If only half of the standard six-unit course is undertaken, English teaching minors are urged to select the second semester)	

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 England Renaissance (3)	
English 174—American Realists (3)	
English 177—Major American Novelists (3)	
	20-21 units

FRENCH

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. 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 20th Century 6 units

..... 20 units

HEALTH EDUCATION

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. 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

Microbiology 4-5 units

Upper Division

H. & S.Ed. 150—School Health Education 3 units

H. & S.Ed. 153—Principles of Community Health 2 units

H. & S.Ed. 220—Administration of Health Education 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 5-6 units

..... 20 units

HEALTH AND DEVELOPMENT CREDENTIAL—SCHOOL AUDIOMETRIST

The requirements listed below must be met by all students at Los Angeles State College who expect to obtain the Health and Development Credential—School Audiometrist.

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 requirements listed below must be met by all students at Los Angeles State College who expect to obtain the Health and Development Credential—School Nurse.

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.Ed. 220—Administration of Health Education 3 units

Sociology 170—Methods of Social Work 3 units

HOMEMAKING

Special Secondary Teaching Major

See also graduation requirements on page 42, and professional education requirements on page 69.

Lower Division

Elementary Clothing	3 units
Art Structure and Design	4 units
Essentials of Nutrition	2 units
Food Preparation	3 units
Applied Chemistry	5 units
Meal Planning and Service	3 units
Biology of the Household	3 units
Textile Study	3 units
Home Nursing	3 units
	<hr/>
	29 units

Upper Division

Home Economics 101—Advanced Clothing	3 units
Home Economics 102—Tailoring	2 units
Home Economics 140—Child Care and Training	3 units
Home Economics 121—Home Furnishings	3 units
Home Economics 150—Home Management	2 units
Home Economics 115—Marriage and Family Life	3 units

Required Electives (Lower or upper division courses)

Electives in the field of foods and nutrition	4 units
Electives in home art	3 units
	<hr/>
	23 units

HOMEMAKING

General Secondary Teaching Major

The general secondary major in homemaking is the same as the major for the special secondary credential. See also general education requirements on page 41, and professional education requirements on page 69. A minor in a different teaching field, a graduate year, and additional professional education are required for the general secondary credential.

HOMEMAKING

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Elementary Clothing	3 units
Food preparation	3 units

Upper Division

Home Economics 101—Advanced Clothing	3 units
Home Economics 140—Child Care and Training	3 units
Home Economics 121—Home Furnishing	3 units
Home Economics 150—Home Management	2 units
Home Economics 115—Marriage and Family Life	3 units

20 units

INDUSTRIAL ARTS**Special Secondary Teaching Major**

See Chairman of the Division of Technical Sciences for Details.

**INDUSTRIAL ARTS—SPECIAL SECONDARY LIMITED
PART-TIME CREDENTIAL**

A candidate for the special secondary limited part-time credential in industrial arts education shall comply with the procedure prescribed for application by submitting:

1. Original letters verifying the last two years of teaching experience.
2. Official transcripts of record listing all college and university courses completed and verifying completion of a program including the following minimum requirements:
 - a. Possession of a valid special secondary vocational Class A credential in trade and industrial and public service education which requires completion of 22 semester hours of vocational teacher training.
 - b. Completion of an additional 18 semester hours of teacher training distributed as follows:

Select from the following.....	6 units
Education 193IA—Methods of Teaching Industrial Arts in Secondary School (2)	
Art 114—Furniture Design and Construction (3)	
Art 126—Construction in Elementary Schools (2)	
Art 132—Design for Industry (2)	
Art 176AB—Metalsmithing-Forging (2-2)	
Art 177AB—Metalsmithing-Jewelry (2-2)	
Art 178AB—Metalsmithing-Raising (2-2)	
Social Studies and/or English.....	6 units
May be the same courses used to satisfy the graduation requirements.	
Natural or Physical Science and/or Mathematics.....	6 units
May be the same courses used to satisfy the graduation requirements.	

JUNIOR HIGH SCHOOL—GENERAL CREDENTIAL MAJOR

See also graduation requirements on page 41.

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 and the California Constitution requirements 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 113—Psychological and Sociological Foundations of Education	5 units
Education 114—Core Course in Secondary Education.....	5 units
Education 147—Audio-Visual Methods.....	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

27 units

**KINDERGARTEN-PRIMARY—GENERAL CREDENTIAL MAJOR
AND COMPOSITE MINOR**

See also graduation requirements on page 41.

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 105AB—Kindergarten-Primary Education	4 units
Education 112—Principles, Curriculum and Methods in Elementary Educa- tion	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
	28 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—Select from the following	4 units
Music 103A—Music for Children (2)	
Music 126—Music for Early Childhood (2) (Recommended)	
Music 103B—Music for Children (2)	
3. Language Arts—Select from the following	3 units
English 128—Interpreting Children's Literature (3) (Recommended)	
Drama 163—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)	
(Recommended)	
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)	

LANGUAGE ARTS

General Secondary Teaching Major

See also the general education requirement on page 41, and the professional education requirements on page 69. A teaching minor in a different teaching field is also required for the general secondary credential.

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 a teaching major 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)	
Drama 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:

Drama Supplement

Select from the following	6 units
Drama 160A—Principles of Directing (3)	
Drama 160B—Principles of Directing (3)	
Drama 110A—Advanced Acting (3)	
Drama 110B—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

Speech 100B—Oral Expression	3 units
Select from the following	3 units
Speech 120—Oral Interpretation (3)	
Speech 134—Introduction to Speech Therapy (3)	

Graduate (5th 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

- Drama 220—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 205—Performance (2)
 - Speech 220—Proseminar in Speech Arts (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 college requirements for that degree have been satisfied.

LANGUAGE ARTS

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

- From the following courses
 - Social Aspects of Mass Communication
 - Survey of English Literature
 - Collecting and Writing News
 - Elements of Public Speaking
- 3 units

Upper Division

- Select from the following
 - English 121—Interpreting Fiction (3)
 - English 123—Interpreting Poetry (3)
 - English 130A—High School Composition (3)
 - Select from the following
 - English 130B—High School Literature (3)
 - English 158—The Romantic Age (3)
 - English 160—The Victorian Age (3)
 - Drama 164D—High School Dramatics
 - Journalism 164J—High School Journalism
 - Language Arts 164M—Mass Communication Arts
 - Speech 164S—High School Speech Arts
 - Select from the following
 - English 170B—Masters of American Literature 1860-1950 (3)
 - English 173—New England Renaissance (3)
 - England 181A—Contemporary World Prose (3)
- 20 units

LIFE SCIENCE AND GENERAL SCIENCE

General Secondary Teaching Major

See also general education requirements, page 41, and professional education requirements on page 69. A teaching minor in a different teaching field is also required.

Lower Division

- Basic courses in botany and zoology
 - Microbiology or bacteriology
 - Basic courses in chemistry and physics
- 5-7 units
3-5 units
4-5 units

Upper Division and Graduate

Botany 103—Plant Classification	3 units
Nature Study 120—Nature in California	3 units
Nature Study 125—Science Materials	3 units
Zoology 107A or B—Mammalogy	2 units
Zoology 110—Genetics	2 units
Zoology 123A or B—Birds of California	2 units
Approved course in Physical Science	2-3 units
Botany or Zoology 190A-B—Seminar	2 units
Courses to be selected with the approval of the biological science adviser from the fields of anatomy, botany, microbiology, physiology, and zo- ology to balance the program.	

40 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.

LIFE SCIENCE AND GENERAL SCIENCE

General Secondary Teaching Minor

See also general education requirements, page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required.

Basic courses selected from the following: Biology, Botany, Zoology, Microbiology, Anatomy and Physiology	6-10 units
Basic courses in chemistry or physics	4-5 units
Nature Study 120—Nature in California	3 units
Electives to be selected with biological science adviser	2-10 units

20 units

NOTE: At least six units of the minor must be in upper division courses.

LIP READING TO THE HARD OF HEARING CHILD—SPECIAL
SECONDARY CREDENTIAL FOR TEACHING

The requirements listed below must be met by all students who expect to obtain recommendation for a special secondary credential for teaching lip reading to the hard of hearing child.

1. Possession of a valid California teaching credential.
2. Completion of professional work as follows:

Education 188—Psychology and Education of the Exceptional Child	3 units
Audiology 100—Audiology	3 units
Audiology 120—Speech Reading	3 units
Audiology 130—Auditory Training and Hearing Aids	3 units
Audiology 110—Audiometry	3 units
Speech 134—Principles and Methods of Speech Therapy	3 units
Psychology 108—Mental Hygiene	2 units
Education 349HH—Observation of the Aurally Limited	1 unit
Education 351HH—Directed Teaching	4 units

25 units

3. Recommended supplementary course
Speech 131—American Phonetics (2)

MATHEMATICS

General Secondary Teaching Major

See also general education requirements, page 41, and professional education requirements on page 69. 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
Select from the following	4-12 units
Mathematics 112—Intermediate Calculus (3)	
Mathematics 114—Vectors and Allied Topics (2)	
Mathematics 115—Differential Equations and Applications (2)	
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.

MATHEMATICS

General Secondary Teaching Minor

See also general education requirements, page 41, and professional education requirements on page 69. 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

MENTALLY RETARDED—SPECIAL SECONDARY CREDENTIAL FOR TEACHING

The requirements listed below must be met by all students who expect to obtain recommendation for a special secondary credential for teaching the mentally retarded.

1. Possession of a valid California teaching credential.
2. Completion of professional work as follows:

Education 102—Growth and Development <i>or</i>	2-3 units
Psychology 112—Child Psychology	3 units
Education 188—Psychology and Education of the Exceptional Child	3 units
Psychology 106—Mental Deficiency	3 units
Education 167MR—Methods of Teaching Mentally Retarded	2 units
Art 100—Art for Elementary School	
Art 126—Construction for Elementary Schools <i>or</i>	2 units
Art 120—Crafts for Elementary School	1 unit
Education 349MR—Observation of Mentally Retarded	4 units
Education 351MR—Directed Teaching	

20-21 units

3. Recommended supplementary courses:
 Speech 134—Principles and Methods of Speech Therapy (3)
 Psychology 108—Mental Hygiene (2)
 Psychology 110—Abnormal Psychology (3)
 Psychology 154—Survey of Clinical Psychology (3)
 Education 135—Diagnosis and Remedial Reading Procedures (3)
 Education 130—Fundamentals of Counseling and Guidance (2) *or*
 Psychology 160—Counseling and Interviewing (3)

MUSIC

Special Secondary Teaching Major

See also graduation requirements on page 41, and professional education requirements on page 69.

Lower Division

Solfege	4 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	2 units
Music history and appreciation	4 units

Upper Division

Music 105A-E—Instruments	4 units
Music 109—Elements of Vocal Technique <i>or</i> Music 110—Intermediate Voice <i>or</i> Music 130—Advanced Voice	2 units
* Music 114AB—Functional Piano for Music Education Majors	2 units
Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
Music 159AB—Musical Form and Analysis	4 units
Music 160A <i>or</i> B—Orchestration and Arranging	2 units
Music 161—Choral Conducting	2 units
Music 162—Instrumental Conducting	2 units
Music 163A—Counterpoint	2 units
Music electives (in field of specialization)	2 units

Note: Prospective teachers should plan to take Education 193Mu, 193MuA, 193MuB, 193 MuC, Music 105A, 105C, 105D, and 105E prior to or concurrently with directed teaching. Participation in a musical organization is required each semester.

MUSIC

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 41, and professional education requirements on page 69. A teaching minor in a different teaching field and a graduate year including additional professional education courses are required for the general secondary credential.

* May be waived by examination.

MUSIC

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. 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 or 162—Courses in conducting	2 units
From Music 112, 114, 148, or 174—Piano courses	2 units
From Music 104, 109, 110, or 130—Instruments or voice	2 units

NOTE: Prospective teachers should plan to take Education 193Mu, 193MuA, 193MuB prior to or concurrently with directed teaching. Participation in a musical organization is required each semester.

NURSING EDUCATION

Special Secondary Teaching Credential

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 69.
5. Completion of Nursing 111, Principles of Nursing Education.

PARTIALLY SIGHTED CHILD—SPECIAL SECONDARY CREDENTIAL FOR TEACHING

The requirements listed below must be met by all students who expect to obtain recommendation for a special secondary credential for teaching the partially sighted child.

1. Possession of a valid California teaching credential.
2. Typing by the touch system.
3. Completion of professional work as follows:

Education 188—Psychology and Education of the Exceptional Child	3 units
Education 164—Vision	3 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
	16 units

PHYSICAL EDUCATION

Special Secondary Teaching Major

See also general education requirements on page 42, and professional education requirements on page 69.

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

*Fifteen semester hours must be selected from at least four of the following subject groups (which may also be counted toward fulfillment of general graduation requirements): Biology, Anatomy, Physiology, Hygiene, Psychology, Sociology, and Chemistry.

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	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. 133—Methods of Coaching Football and Basketball (2)	
P.E. 134—Methods of Coaching Track and Field and Baseball (2)	
P.E. 135—Methods of Coaching Tennis and Swimming (2)	
From the following courses select	2 units
P.E. 140—School Camping and Outdoor Education (2)	
Rec. Ed. 179—Organization and Administration of Club Activities (2)	
Rec. Ed. 185—The Recreation Program (2)	

36 units

PHYSICAL EDUCATION

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 41, and professional education requirements on page 69. A teaching minor and a graduate year including additional professional education are required for the general secondary credential.

PHYSICAL EDUCATION

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. 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

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

PHYSICAL SCIENCE AND GENERAL SCIENCE

General Secondary Teaching Major

See also general education requirements on page 41, and professional education requirements on page 69. 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

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 units
Courses to be selected from the biological sciences with the approval of the adviser	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.

PHYSICAL SCIENCE AND GENERAL SCIENCE

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required.

Lower Division

Basic courses in chemistry and physics (some approved electives in closely related fields may also be included)	8-14 units
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Upper Division

Physical Science 125—Physical Science Activities	3 units
Electives to be selected with the approval of the Physical Science adviser	3-9 units
—————	20 units

NOTE: At least 6 units must be in upper division courses.

PSYCHOLOGIST (SCHOOL) CREDENTIAL

The requirements listed below are recommended for students who expect to obtain a school psychologist credential.

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 (3) <i>or</i>	
Psychology 112—Child Psychology (3)	
Psychology 108—Mental Hygiene (2)	
Education 130—Fundamentals of Counseling and Guidance (2) <i>or</i>	
Psychology 160—Counseling and Interviewing (3)	

Nine units selected from		
Education 188—Psychology and Education of the Exceptional Child (3) <i>or</i>		9 units
Psychology 104—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 (1-4)		
Six units to be selected from		
Education 110—Educational Psychology (3) <i>or</i>		6 units
Psychology 164—Psychology of Learning (3)		
Education 109—Tests, Measurements and Evaluation (2)		
Psychology 120A—Elementary Statistical Methods (3) <i>or</i>		
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		
Education 135—Diagnosis and Remedial Reading Procedures (3)		6 units
Education 137—Reading Clinic (3)		
		36 units

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.

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 <i>or</i>		
Psychology 112—Child Psychology		
Education 110—Educational Psychology		2-3 units
Education 109—Tests, Measurements and Evaluation		3 units
Education 188—Psychology and Education of the Exceptional Child		2 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)		

19-20 units

SOCIAL STUDIES

General Secondary Teaching Major

See also general education requirements on page 41, and professional education requirements on page 69. 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 (including United States history and 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.

Anthropology	Government (Other)
Economics	Geography
History (United States)	Social Psychology
History (Other)	Social Science
Government (United States)	Sociology

Graduate (5th year)

With the approval of the social studies adviser, 6 units from "200" courses in the social sciences, including Social Science 250 A or B, selected by the candidate.

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.

SOCIAL STUDIES

General Secondary Teaching Minor

See also general education requirements on page 41, and professional education requirements on page 69. 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.

SPANISH

General Secondary Teaching Major

See also general education requirements on page 41, and professional education requirements on page 69. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

Elementary Spanish	6 units
Intermediate Spanish	6 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 (5th Year)

Select from the following	6 units
Drama 164D—High School Dramatics (2)	
Journalism 164J—High School Journalism (2)	
Lang. Arts 164—Motion Picture and TV (2)	
Spanish 101A or B—Oral and Written Composition (3-3)	

—
42 units**SPANISH****General Secondary Teaching Minor**

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Intermediate Spanish	8 units
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Upper Division

Spanish 101AB—Oral and Written Composition	6 units
Spanish 102AB—Spanish Literature to 1800	6 units

—
20 units**SPEECH****General Secondary Teaching Major**

See also general education requirements on page 41, and professional education requirements on page 69. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

Public Speaking	3 units
Voice Training or Interpretation	3 units

Upper Division

Lang. Arts 100B—Oral Expression	3 units
Speech 110—Advanced Public Speaking	2 units
From Speech 111ABCD—Persuasive Speaking	2 units
Speech 120—Oral Interpretation	3 units
Speech 130—Advanced Voice and Diction	2 units
Speech 134—Introduction to Speech Therapy	3 units
Drama 164D—High School Dramatics	2 units
Speech 164S—High School Speech Arts	2 units
Lang. Arts 197—Language Arts and the Democratic Tradition	2 units
Select from the following	3 units
*English 130A—High School Composition (3)	
English 130B—High School Literature (3)	
English 170A or B—Masters of American Literature (3-3)	

* This course must be taken by students who have not had other courses in composition.

Graduate (5th Year)

With the approval of adviser, electives in speech	6 units
.....	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.

SPEECH**General Secondary Teaching Minor**

See also general education requirements on page 41, and professional education requirements on page 69. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Public Speaking	3 units
Voice Training or Interpretation	3 units

Upper Division

Lang. Arts 100B—Oral expression <i>or</i>	
Speech 120—Oral Interpretation	3 units
From Speech 111ABCD—Persuasive Speaking	2 units
Speech 130—Advanced Voice and Diction	2 units
Speech 164S—High School Speech Arts	2 units
Drama 164D—High School Dramatics	2 units
Select from the following	3 units
*English 130A—High School Composition (3)	
English 130B—High School Literature (3)	
English 170A <i>or</i> B—Masters of American Literature (3-3)	
.....	20 units

**SPEECH DEFECTS—SPECIAL SECONDARY CREDENTIAL
IN CORRECTION OF**

The requirements listed below must be met by all students who expect to obtain recommendation for a special secondary credential in correction of speech defects.

1. Possession of a valid California teaching credential.

2. Completion of professional work as follows:

Education 188—Psychology and Education of Exceptional Child	3 units
Audiology 100—Audiology	3 units
Psychology 108—Mental Hygiene	2 units
Speech 131—American Phonetics	2 units
Speech 134—Introduction to Speech Therapy	3 units
Speech 135—Advanced Speech Therapy	2 units
Speech 136 <i>or</i> 236—Clinical Practice	1 unit
Education 351S—Directed Teaching	3 units

19 units

3. Recommended supplementary courses:

Audiology 120—Speech Reading (3)	
Audiology 130—Auditory Training (3)	
Speech 130—Advanced Voice and Diction (2)	
Education 349S—Observation (1)	

* This course must be taken by students who have not had other courses in composition.

SUPERVISION CREDENTIAL—ELEMENTARY SCHOOL

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 265—Field Work in Elementary School Administration and Supervision	2-2 units
Education 270—Organization and Administration of the Elementary School	2 units
Electives selected with adviser	9 units
	24 units

SUPERVISION CREDENTIAL—SECONDARY SCHOOL

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 266—Field Work in Secondary School Administration and Supervision	4 units
Education 276—Organization and Administration of the Secondary School	2 units
	15 units

SUPERVISION CREDENTIAL—SPECIAL SUBJECT

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	2 units
	11-12 units

MASTER OF ARTS DEGREE—FIELDS OF CONCENTRATION

ADMINISTRATION—ELEMENTARY SCHOOL

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Prerequisites:
 - a. Graduate standing.
 - b. General elementary teaching credential.
 - c. Experience as required by the state department for the elementary administration credential.
 - d. Education 109, Education 130.
2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	3-3 units
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	2 units
Education 271—Organization and Administration of Local Public School Systems	2 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
† Education 299—Graduate Project	3 units
3. Outside the field of education

Select in consultation with adviser	6 units
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ADMINISTRATION—SECONDARY SCHOOL

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Prerequisites:
 - a. Graduate standing.
 - b. General secondary teaching credential.
 - c. Experience as required by the State Department of Education for the secondary administration credential.
 - d. Education 109, Education 130.

* Education 265AB may be waived if the project in Education 299 meets the state requirements in field work.

† 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 299.

2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3-3 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 271—Organization and Administration of Local Public School Systems	2 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 299—Graduate Project	3 units
3. Outside the field of education	
Select in consultation with adviser	6 units

ART

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Graduate "200" courses, as follows	3 units
Art 231—Industrial Application of Crafts (3)	
Art 231—History of Art Seminar (3)	
Art 233—Seminar in Design (3)	
2. Select from the following with approval of graduate adviser	9 units
Art 111AB—Art History (3-3)	
Art 112AB—Art History (3-3)	
Art 114—Furniture Design and Construction (3)	
Art 122AB—Advanced Ceramics (2-2)	
Art 127AB—Crafts (Advanced) (3-3)	
Art 131AB—Oriental Art (3-3)	
Art 134AB—Landscape Painting (3-3)	
Art 176AB—Metalsmithing—Forging (2-2)	
Art 177AB—Metalsmithing—Jewelry (2-2)	
Art 178AB—Metalsmithing—Raising (2-2)	
Art 179AB—Art Display and Portfolio (2-2)	
Art 190A—Industrial Graphics (2)	
Art 199—Independent Study (1-3)	
3. Art 299—Graduate Project	3 units
4. Outside the field of art	6 units
5. Electives	9 units

COMMERCE

Field of Concentration for the Master of Arts Degree

See page 44 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).	

* Education 266AB may be waived if the project in Education 299 meets the state requirements in field work.

† 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 299.

- 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).
- 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

CURRICULUM AND SUPERVISION—ELEMENTARY SCHOOL

Field of Concentration for the Master of Arts Degree

See page 44 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 *or* 3-3 units
 - 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 2 units
 - § Education 299—Graduate Project 3 units
- 3. Outside the field of education
Select in consultation with adviser 6 units
- 4. Electives 7 units

CURRICULUM AND SUPERVISION—SECONDARY SCHOOL

Field of Concentration for the Master of Arts Degree

See page 44 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 secondary supervision credential.

* Education 109 and Education 130 may be taken concurrently with other work. These courses may be included as part of elective program under Item 4.

† Education 265AB may be waived if the project in Education 299 meets state requirements in field work.

§ 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 299.

2. Area of specialization:
- | | |
|---|-----------|
| Education 207—History and Philosophy of Education <i>or</i> | |
| Education 225—Educational Sociology | 3-3 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 | 2 units |
| + Education 299—Graduate Project | 3 units |
3. Outside the field of education
Select in consultation with adviser 6 units
4. Electives 7 units

DRAMA

Field of Concentration for the Master of Arts Degree
See "Language Arts," page 102

ECONOMICS

Field of Concentration for the Master of Arts Degree
See page 44 for the total requirements for the master of arts degree

- | | |
|--|---------|
| 1. Social Science 250A <i>or</i> B | 3 units |
| 2. Approved graduate "200" courses in the field of economics. Graduate project not to exceed 3 units of credit may be included | 9 units |
| 3. Approved courses in the field of economics; may be upper division "100" courses | 3 units |
| 4. Comprehensive oral and written examinations in the field of economics. | |
| 5. Approved courses outside the area of economics | 6 units |
| 6. Electives | 9 units |

ENGLISH

Field of Concentration for the Master of Arts Degree
See "Language Arts," page 102

FOREIGN LANGUAGE

Field of Concentration for the Master of Arts Degree
See "Language Arts," page 102

GEOGRAPHY

Field of Concentration for the Master of Arts Degree
See page 44 for the total requirements for the master of arts degree

- | | |
|--|---------|
| 1. Social Science 250A <i>or</i> B | 3 units |
| 2. Approved graduate "200" courses in the field of geography. Graduate project not to exceed 3 units of credit may be included | 9 units |
| 3. Approved courses in the field of geography; may be upper division "100" courses | 3 units |
| 4. Comprehensive oral and written examinations in the field of geography. | |
| 5. Approved courses outside the area of geography | 6 units |
| 6. Electives | 9 units |

* Education 266AB may be waived if the project in Education 299 meets state requirements and field work.

† 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 299.

GOVERNMENT

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

- | | |
|---|---------|
| 1. Social Science 250A <i>or</i> B | 3 units |
| 2. Approved graduate "200" courses in the field of government. Graduate project not to exceed 3 units of credit may be included | 9 units |
| 3. Approved courses in the field of government; may be upper division "100" courses | 3 units |
| 4. Comprehensive oral and written examinations in the field of government. | |
| 5. Approved courses outside the area of government | 6 units |
| 6. Electives | 9 units |

GUIDANCE

Field of Concentration for the Master of Arts Degree

See page 44 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.
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 299—Graduate Project	3 units
3. Outside the field of education

Select in consultation with adviser	6 units
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4. Electives

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.

HEALTH EDUCATION

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Required courses:

P.E. 299—Graduate Project	3 units
P.E. 220—Health Education	3 units
2. Additional health education courses "200" not less than
3. Additional upper division or graduate courses in health education
4. Required courses outside the field of health education
5. Electives

* 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 299.

HISTORY

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

- | | |
|--|---------|
| 1. Social Science 250A or B | 3 units |
| 2. Approved graduate "200" courses in the field of history | 9 units |
| 3. Approved courses in the field of history; may be upper division "100" courses | 3 units |
| 4. Comprehensive oral and written examinations in the field of history. | |
| 5. Approved courses outside the area of history | 6 units |
| 6. Electives | 9 units |

JOURNALISM

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102

LANGUAGE ARTS

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Prerequisites:
 - a. 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.
 - b. Teaching objective: Candidates must be engaged in an academic program leading to a bona fide teaching objective.
2. Select from the following 9 units

Drama 220—Proseminar in Dramatic Arts (3)	
English 220—Proseminar in Literature (3)	
Language Arts 220—Proseminar in Communication Problems (3)	
Speech 220—Proseminar in Speech Arts (3)	
3. Select with the approval of graduate adviser 6 units

Graduate (and selected upper division) courses in the language arts related to student's teaching objective.	
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4. Outside the field of language arts 6 units
5. Electives 9 units
6. Final comprehensive oral examination. No foreign language or thesis requirements.

MUSIC

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

- | | |
|--|---------|
| 1. Music Education | 4 units |
| Music 202—Modern Trends in Elementary Music (2) | |
| Music 203—Advanced Problems in Secondary School Choral Methods (2) | |
| Music 204—Advanced Problems in Instrumental Methods (2) | |

2. Music	4 units
Music 216—Piano, Voice or Orchestral Instruments (2)	
Music 177—Advanced Choral Conducting <i>or</i>	
Music 178—Advanced Instrumental Conducting (2)	
3. Theory	2 units
Selected from any approved upper division or graduate "200" course.	
4. Music history and literature	2 units
Selected from any approved upper division or graduate "200" course.	
5. Outside the field of music	6 units
6. Electives	9 units
Selected from music theory, applied music, music history and literature, professional education, liberal arts and sciences, or fine arts.	
7. Music 299—Graduate Project	3 units

NOTE: A comprehensive examination is required of all candidates for the master's degree.

PHYSICAL EDUCATION

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Required courses:	
P.E. 299—Graduate Project	3 units
P.E. 200—Physical Education Tests and Measurements	2 units
2. Additional physical education "200" courses, not less than	5 units
3. Additional upper division or graduate physical education courses	5 units
4. Outside the field of physical education	6 units
5. Electives	9 units

PSYCHOLOGY

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

Prerequisite: Completion of the major in psychology including the core requirements.

1. Psychology 290—Seminar in Advanced General Psychology	3 units
2. Minimum additional "200" courses in psychology	9 units
3. Approved courses in psychology; may be upper division	3 units
4. Comprehensive oral and written examination in selected fields of psychology.	
5. Approved courses outside the area of psychology	6 units
6. Electives	9 units

SOCIAL SCIENCE

Field of Concentration for the Master of Arts Degree

1. Social Science 250A and B	6 units
2. Approved graduate "200" courses chosen from two of the following fields: economics, or geography, or government, or history, or sociology, or social psychology. Graduate project, not to exceed 3 units of credit, may be included	6 units
3. Approved courses in the social sciences; may be upper division	3 units
4. Comprehensive examinations in the composite field of social science and in designated social science areas.	
5. Approved courses outside the area of the social sciences	6 units
6. Electives	9 units

SOCIOLOGY

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

- | | |
|---|---------|
| 1. Social Science 250A or B | 3 units |
| 2. Approved graduate "200" courses in the field of sociology. Graduate project, Sociology 299, must be included | 3 units |
| 3. Approved courses in the field of sociology; may be upper division "100" courses | 3 units |
| 4. Comprehensive oral and written examinations in the field of sociology. | |
| 5. Approved courses outside the area of sociology | 6 units |
| 6. Electives | 9 units |

SPECIAL EDUCATION

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

- | | |
|---|------------|
| 1. Prerequisites: | |
| a. Graduate standing. | |
| b. Basic credential or appropriate license usually accepted. | |
| 2. Basic core: | |
| Education 188—Psychology and Education of the Exceptional Child | 3 units |
| Education 234—Seminar in Special Education | 3 units |
| * 299—Graduate Project | 3 units |
| 3. Areas of specialization | 5-6 units |
| a. For candidates in the aural area: | |
| Audiology 100—Audiology (3) | |
| Audiology 200—Seminar in Audiology (3) | |
| b. For candidates in the area of child welfare and attendance: | |
| Education 185—Child Welfare and Attendance (3) or | |
| Sociology 159—Child Welfare (3) | |
| Education 230—Advanced Study in Child Development (2) | |
| c. For candidates in the area of the mentally retarded: | |
| Psychology 106—Mental Deficiency (3) | |
| Education 235—Seminar in Mental Retardation (3) | |
| d. For candidates in the area of speech correction: | |
| Speech 134—Introduction to Speech Therapy (3) | |
| Speech 215—Seminar in Speech Therapy (3) | |
| e. For candidates in the area of the visually handicapped: | |
| Education 164—Vision (3) | |
| Education 237—Seminar in Vision (3) | |
| 4. Outside the field of education | |
| Select in consultation with adviser | 6 units |
| 5. Electives | 9-10 units |

SPEECH

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102

* 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 299.

TEACHING—ELEMENTARY

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Prerequisites:
 - a. Graduate standing.
 - b. A general elementary credential (any state) and one year of successful teaching at the elementary level.
2. Area of specialization:

Select from the following 12 units

 - Education 207—History and Philosophy of Education (3)
 - 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 225—Educational Sociology (3)
 - Education 260—Principles and Practices of Curriculum Development (3)
 - Education 230—Advanced Study in Child Development 2 units
 - Education 231—Seminar in Elementary Education 2 units
 - * Education 229—Graduate Project 3 units
3. Outside the field of education

Select in consultation with adviser 6 units
4. Electives 5 units

TEACHING—SECONDARY

Field of Concentration for the Master of Arts Degree

See page 44 for the total requirements for the master of arts degree

1. Prerequisites:
 - a. Graduate standing.
 - b. Basic courses in child development and behavior.
 - c. Basic courses in secondary school problems and curriculum.
2. Area of specialization:

Education 207—History and Philosophy of Education *or*

 - Education 225—Educational Sociology 3 units
 - Education 230—Advanced Study in Child Development 2 units
 - Education 260—Principles and Practices of Curriculum Development 3 units
 - * Education 299—Graduate Project 3 units
 - Selected courses to complete 15 units 2 units
3. Outside the field of education

Select in consultation with adviser 6 units
4. Electives 11 units

* 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 299.

COURSE DESCRIPTION

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 to 299 are graduate level.

Courses numbered 300 or above are for student teaching for secondary credentials.

Courses numbered 100 to 199 may be taken for graduate credit if proper approval is obtained.

ANTHROPOLOGY

(In the Division of Social Science)

Staff: Luhrs.

Minor in Anthropology

Designed for students interested in the range of social behavior found in human cultures.

COURSES OF INSTRUCTION

Prerequisite: General Anthropology or consent of instructor.

101 Culture Areas of the World (3) I

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) I, II (See Sociology 104)

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.

105 Culture and Personality (3) I, II (See Sociology 105)

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. (Formerly Anthropology 126.)

106 Archeology of North America (3) (Offered alternate years)

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) I, II

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) II

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) (Offered alternate years)

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

147 Peoples of the Pacific (3) II

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

199 Independent Study (1-3) I, II

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), Daywald, Hoffman, Kovacic, Little, Roysher, Sudlow, Tramel, Weil.

Teaching Major in Art

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. Adviser: Manion.

Baccalaureate Major in Art

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 plan above to provide both professional competence and the teaching credential.

Advisers: Kovacic, Little, Roysher.

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.

Adviser: Kovacic.

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.

Adviser: Manion.

COURSES OF INSTRUCTION**100 Art for the Elementary School (2) I, II**

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) A-I, II; B-I, II

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) A-I, II; B-I, II

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) A-I, II; B-I, II

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) A-I, II; B-I, II

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) I, II

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-I; B-II

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-I; B-II

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 (3) I, II

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) I, II

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) II

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) A-I, II; B-I, II

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) I, II

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) A-I, II; B-I, II

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) I, II

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) I, II

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) A-I, II; B-I, II

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

133A-B Advertising Design (2-2) A-I, II; B-I, II

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) A-I, II; B-I, II

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

140A-B Clay Modeling (2-2) A-I, II; B-I, II

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-I; B-II

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) I, II

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-II; B-I

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) I, II

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 book-binding. Laboratory with accompanying lectures.

162 Arts and Crafts in Recreation (2) I, II

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) A-I, II; B-I, II

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) I

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 (2-2) A-I, II; B-I, II

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

177A-B Metalsmithing—Jewelry (2-2) A-I, II; B-I, II

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) A-I, II; B-I, II

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

179A-B Art Display and Portfolio (2-2) A-II; B-I

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

190A Industrial Graphics (2) II

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) I

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) I, II

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) I, II

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**227 Industrial Application of Crafts (3) I**

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) II

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) I

Prerequisite: 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) I, II

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.

ASTRONOMY**(In the Division of Natural Science)**

Staff: Instructor from Los Angeles City College.

No major or minor given.

COURSE OF INSTRUCTION**105 History of Astronomy (3) I, II**

A study of the more important astronomical concepts and problems from the standpoint of their historical development and the contributions of great astronomers.

AUDIOLOGY**(In the Division of Technical Sciences)**

Staff: Kennedy, Griffiths, Douglass, Wheeler.*

Majors in Audiology

The 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. (Students interested in this program should consult with the Audiology adviser.)

* Part-time faculty.

COURSES OF INSTRUCTION

99 **Audiological Therapy (1) I, II**

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 a hearing aid but will benefit from speech reading and/or auditory training.

100 **Audiology (3) I, II**

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.

110 **Audiometry (3) I, II**

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. Demonstrations of hearing aids.

111 **Advanced Audiometry (3) I, II**

Prerequisites: Audiology 100 and Audiology 110. 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.

120 **Speech Reading (3) II**

Prerequisite: Audiology 100 (may be taken concurrently). Principles and methods of teaching speech reading. Discussion of material, development and preparation of source collections for various age groups.

130 **Auditory Training and Hearing Aids (3) I**

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

140 **Hearing Aid Fitting, Adjustment and Repair (3) I**

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 (2-5) I, II**

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 (3-5) I, II**

Prerequisite: Consent of instructor. A situation designed to provide advanced students with practical experience in the use of amplifying equipment and supplemental educational therapy.

160 **Electrical Circuits (4) I, II (See Electrical Engineering 101)**163 **Basic Electronics (3) II (See Electrical Engineering 112)**166 **Electric Communication (2) II (See Electrical Engineering 111)**168 **Industrial Electronics (3) I (See Electrical Engineering 105)**

198 Field Assignment and Reports (1-2) I, II

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) I, II

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 developments 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.

BIOLOGICAL SCIENCE

(In the Division of Natural Science)

Staff: Anderson, Griesel, Ross.

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.

COURSES OF INSTRUCTION

100 Survey of Biological Science (3) I, II

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) I, II

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) I, II

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) II

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. One hour lecture, three hours laboratory.

203 Cellular Physiology (2) I

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

BOTANY

(In the Division of Natural Science)

Staff: Griesel, and instructors from Los Angeles City College.

No specific major given.

Botany is part of the Biological Science and Life Science and General Science majors.

See pages 47 and 85 for these programs.

COURSES OF INSTRUCTION**103 Plant Classification (3) II**

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) II

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) I

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. Lecture three hours.

110 Plant Physiology (4) I Offered 1953-1954

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) I, II

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. Lecture three hours.

120 Plant Anatomy (4) I Offered 1954-55

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.

126 Histological Methods (3) I (See Zoology 126)**190A-B Seminar (1-1) I, II**

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) I, II

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) I, II

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.

BUSINESS ADMINISTRATION*(In the Division of Business and Economics)*

Staff: Simpson (Division Chairman), Anderson,* Ashley,* Blackledge, Borders, Bright, Chrysler, Dance, Francis, Goodfellow,* Gustafson, Hansen, Hathcock,* Hill, Hoyt, Hyman,* Luther, Mathy, Mullin,* Murphy, Norby, Norrbom,* Quilliam,* Rubin,* Valentine,* Voris, Watson,* White.*

Major in Accounting

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. See pages 48 and 74 for program.

Advisers: Francis, S. Hansen, Murphy.

ACCOUNTING ADVISORY COMMITTEE

Mr. J. V. Class, Controller, Studebaker Corporation, Pacific Division.

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.

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.

Major in Executive Secretarial

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. See page 48 for program.

Advisers: Bright, Gustafson.

Major in Finance

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. See page 48 for program.

Adviser: Hill.

FINANCE ADVISORY COMMITTEE

Mr. Earl W. Huntley, Partner, Merrill, Lynch, Pierce, Fenner & Beane.

Mr. Chester C. Lincoln, Vice President, Security-First National Bank of Los Angeles.

Mr. W. M. Rothaermel, Vice President, Pacific Mutual Life Insurance Company.

Major in Industrial Management

Students may concentrate in either production management or management of small business. The former prepares the student for factory employment in such areas as production control, time and motion study, and methods analysis; the latter for operating a small firm. See page 49 for program.

Advisers: Blackledge, Luther, Voris.

MANAGEMENT ADVISORY COMMITTEE

Mr. H. Woodrow Linton, Chief Methods Engineer, North American Aviation.

Mr. Karl Kunze, Assistant Personnel Manager, Lockheed Aircraft Corporation.

Mr. Frederick K. Woll, Vice President, Isotek Corporation.

Mr. George Howard, Assistant Superintendent, Baker Oil Tools, Inc.

* Part-time instructors.

Major in Labor Relations and Personnel Management

Develops skill in human relations that is required of managers, supervisors, conciliators, and similar officials in industry, finance, education, government or labor unions. See page 50 for program.

Adviser: Dance.

Major in Marketing and Merchandising

Prepares student for work in the merchandising or sales department of manufacturing, wholesaling, retailing, or foreign trade establishments. See page 50 for program.

Advisers: Chrysler, Luther.

MARKETING ADVISORY COMMITTEE

Mr. E. McClelland Stuart, General Manager, Broadway Hollywood.

Mr. W. J. Martindale, General Agent, Railway Express Agency.

Mr. Tony Whan, President, Pacific Indoor Advertising Company.

Mr. R. B. Rucker, Vice President, McKesson & Robbins, Inc.

Mr. Cyril C. Nigg, President, Bell Brand Foods.

Special Business Major

A flexible program designed for special student needs not covered by the other majors above, or for those who wish to combine liberal amounts of business and economics training. Permission to take this major must be secured from the chairman of the division. See page 50 for program.

Adviser: Simpson

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 9 of which shall be in upper division work.

Training for Certified Public Accountants Examinations

Students of accounting who have secured no less than 12 units of upper division accounting training may qualify to pursue a series of courses which provide training for the CPA 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.

COURSES OF INSTRUCTION

BASIC COURSES

100A Accounting Concepts Survey (5) I, II

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) I, II

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. (Formerly called Management Accounting)

101 Business Correspondence (3) I

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) I, II

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 Corporation Finance (3) I, II

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.

104 Principles of Marketing (3) I, II

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 Business and Production Management (3) I, II

The essentials of business and production 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 Commercial Law (3) I, II

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.

108B Commercial Law (3) I, II

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.

109 Applied Business Statistics (4) I, II

Graphical and tabular presentation of statistical data. Study of statistical methods most used by business; variation; business index numbers; simple correlation; time series; sampling theory; basic operation of electric rotary calculators. Three lectures and three laboratory meetings per week.

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

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. (Formerly called Secretarial Techniques and Methods)

111 Applied Secretarial Practice (3) I

Prerequisites: Typing skill of 50 words per minute and shorthand skill of 80 words per minute. Stenographic office problems; development of skill in transcriptions; principles underlying the editing of letters and reports. Emphasis upon skills and knowledge for executive and administrative secretaries. Meets four hours per week. (Formerly 111A-B, (2-2))

112 Business Machines (2) II

Rotary and key-driven calculators, 10-key and full keyboard adding machines. Four hours per week (can be used to meet the business machines proficiency requirement).

113 Office Organization and Management (3) I

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) I, II**

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-I; B-II

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) II

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. (Formerly called Industrial Accounting)

123 Specialized Cost Accounting (4) I

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. (Formerly called Cost Accounting)

124 Auditing (4) II

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) II

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) II

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) I

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) I

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-I; B-II

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 AND INSURANCE**130 Credits and Collections (3) I**

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.

131 Business Cycles and Forecasting (3) I, II

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) II

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) I

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) II

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) II

Prerequisite: Economics 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) I

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) I

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) II 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) II Offered 1953-54

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

139 Real Estate Principles (3) I

Prerequisite: Business 138A or consent of instructor. Nature of real property; factors affecting real property; values and income; government regulation of real estate practices.

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

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) II 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) I

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) II

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) I

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) I

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) II Offered 1953-54

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) II

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) II

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

151 Commodities of International Commerce (3) I

The characteristics, uses and distribution of minerals, base and light chemicals, fuels, oils, fibers, manufactured products; the trends in distribution of foodstuffs.

152 International Trade Principles (3) I (See Economics 106)**153 Principles of Transportation (3) I Offered 1954-55**

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) II Offered 1953-54

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 in foreign trade, and traffic research.

155 Motor Transportation Practices (3) II Offered 1954-55

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 Problems of Production Management (3) I**

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.

161 Executive Control and Administration (3) II

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) I

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) II

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) II

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) I Offered 1953-54

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) I Offered 1954-55

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) II Offered 1953-54

Prerequisites: Business 109, 106, 160, and prior or concurrent enrollment in Business 164, or 169. Principles of tolerances and variants. The study of manufacturing errors, their detection and cause and correction. Statistical quality control methods; inspection and testing procedures; field work with related analysis and written reports.

168 Small Business Management (3) II

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) I, II

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) I, II**

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) II

Prerequisites: Economics 102 and Business 106, or consent of instructor. 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. (Formerly called Management of Labor Relations)

173 Personnel Management (3) II

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) I (See Economics 120)**LAW AND GOVERNMENT REGULATION****180 Law of Finance (3) II**

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) I

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) I Offered 1954-55

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) I

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) II (See Economics 105)

GENERAL BUSINESS

191 Business Problems (3) I, II

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) I

Prerequisite: 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) I

Prerequisite: 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) II (See Economics 100)

198 Field Assignment and Reports (1-2) I, II

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) I, II

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 Problems in Marketing (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.

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.

BUSINESS EDUCATION

(In the Division of Business and Economics)

Teaching Major in Business Education

Designed for those who want a general or special secondary credential in Business Education. See page 74 for program.

Adviser: W. Bright, J. Gustafson.

CHEMISTRY

(In the Division of Natural Science)

Staff: Peterson. Additional instructors from Los Angeles City College.

No specific major given. However, courses form the basis for (a) the Liberal Arts Major in Physical Science which is designed for students who plan advanced study in chemistry or related fields or who plan to enter industry or government employment (see page 59 for program), (b) the teaching major in Physical Science and General Science which is designed primarily for students training to become teachers of chemistry, or general science on the secondary level (see page 91 for program).

COURSES OF INSTRUCTION**106 Advanced Organic Chemistry (3)**

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) I

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.

109 Biochemistry (4) II

A continuation of Chemistry 108. Special emphasis is placed on the analysis of body fluids and tissues.

112 Organic Analysis (2) II

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)

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 Physical Chemistry (3) II

Prerequisites: Chemistry 113, Quantitative Analysis, Mathematics (Calculus), and General Physics. Fundamental physical laws and theories as applied to chemistry. Lectures and problems.

114B Physical Chemistry Laboratory (1) II

Laboratory course to accompany Chemistry 114A. Three hours laboratory.

190A-B Seminar (1-1) I, II

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) I, II

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) I, II

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

(In the Division of Natural Science)

Staff: Peterson.

No specific major given. Conservation 141 and 171 are recommended courses for the Life Science and General Science; the Physical Science and General Science majors. Conservation 161 is acceptable as an elective course for natural science general education requirement.

141 Conservation of Wild Life (3) I

Prerequisite: Open only to qualified majors and minors in the biological and physical sciences. Basic environmental needs of wild life, value of wild life to humans, methods involved in conservation of this resource, current problems involved. Credit will not be given for both this course and Conservation 171.

161 Conservation of Natural Resources (3) I, II (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.

171 Conservation Problems and Practices (3) II

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 141.

DRAMA

(In the Division of Language Arts)

Staff: Gardemal (Adviser).

Baccalaureate Major in Drama

1. Programs designed for students who elect to study the liberal arts tradition with an emphasis on drama. See page 51 for program.
Adviser: Gardemal.
2. Programs designed for students who plan to engage in professional work on the stage, screen, or television, or in careers where skill in dramatic art is essential. See page 51 for program.
Adviser: Gardemal.

Teaching Major in Drama

No teaching major is offered in the field of drama exclusively. Students interested in a composite-field teaching major which includes drama should refer to page 82, where the Language Arts Major is described.

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102.

COURSES OF INSTRUCTION

100 History of the Theater (3) II

Prerequisite: Consent of instructor. Dramatic literature from the Greek period to the present. Selected critical readings about the theater and drama.

101 Television Techniques (3) I, II

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.

102 Advanced Technical Production (3) I, II

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.

110A-B Advanced Acting (3-3) A-I; B-II

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.

116 Theater Design (2) (See Art 116)

134 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.

160A-B Principles of Directing (3-3) A-I; B-II

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.

163 Speech and Dramatic Activities in Elementary Schools (3) I, II

Prerequisite: Consent of instructor. Theory and techniques of creative dramatics, puppetry, cutout shadow plays, choral reading, and creative dance. Designed primarily for kindergarten, primary, and elementary teachers. Also valuable to leaders in extracurricular activity.

164D High School Dramatics (2) II

Prerequisite: Consent of instructor. Theory and techniques of dramatic production in secondary schools, junior colleges, and community theaters. Includes lectures and practice in "socio-drama." Not a methods course, as emphasis is on subject field skills.

175 Costume Design (2) (See Art 175)

176A-B-C-D Information Programs in Television (2-2-2-2) I, II

Prerequisite: Drama 101 (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.

196A-B-C-D Special Projects in Television and Drama (3-3-3-3) I, II

Prerequisite: Consent of instructor. Participation under faculty supervision in the planning, preparation, and presentation of college sponsored drama and television productions. May be taken in any sequence.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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 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.

ECONOMICS

(In the Division of Business and Economics)

Staff: Mathy (Department Head), Ashley,* Dance, Hill, Norby, Podoski,* Valentine,* Simpson.

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.

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) II Offered 1953-54

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) I, II

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

102 Labor Economics (3) I, II

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.

* Part-time staff.

103 Money, Credit and Banking (3) I, II

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) II Offered 1954-55

Prerequisite: At least one course in economics numbered above 100, or consent of instructor. The basis upon which government interferes in the operation of a privately owned business, especially as to price determination. The legal and economic problems encountered in regulating services and prices in such industries as electricity, gas, urban transportation and telephones are given special attention.

Credit may not be secured for both Economics 105 and Business 186.

106 Principles of International Trade (3) I

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

109 Statistical Methods (4) I, II (See Business 109)**110 Economics of the Business Firm (3) I, II**

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) II

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) II

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

120 Labor Legislation (3) I

Prerequisite: Economics 102. 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) II (See Business 172)**130 Monetary Management (3) II Offered 1953-54**

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 Corporation Finance (3) I, II (See Business 103)**133 Public Finance (3) I**

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) I, II

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) I** (See Business 185)

151 **Economics of Transportation (3) I** (See Business 153)

171 **Economic History of the United States (3) II** (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) I** (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) I**

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.

184 **Economics of Consumption (3) I** Offered 1954-55

The development of consumption standards, the relation of the consumer to the price system; governmental and private efforts in the consumers' behalf; analysis of consumer cooperatives.

190 **Current Economic Problems (3) II**

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) I, II**

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) I, II**

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) I**

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) II**

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.

299 **Graduate Project (1-3)**

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: Bishop (Division Chairman), Benedetti, Brockman, Gellermann, Graves, Griffiths, Hanson, Henry, Hone, Horner, Johnson, Kennedy, Kudrna, Lambert, Langston, Lorbeer, McIntire, Miles, Mortensen, Neale, Nelson, Ott, Peckham, Prindiville, Preston, Sando, Schubert, Schwartz, Shepherd, Smallenburg, Stewart, Tonge, Tozier, Van Winkle, Wogstaff, Williamson, Wilson, Winn.

Organization

The Division of Education is organized around four fields:

- (1) Elementary Education, including kindergarten-primary
- (2) Secondary Education, including junior high school
- (3) Special Education
- (4) Administration and Supervision

Each field is under the direction of a coordinator who works with a selected faculty committee in the improvement and operation of the training program for that particular area.

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 the coordinator of the field in which he intends to work. Together they will select an adviser who can offer the student any necessary help and direction throughout the entire training program. Full responsibility for meeting all requirements set forth in the catalog will still 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 coordinator and/or the chairman of the division. Equivalents from any other college transferred to Los Angeles State College to meet specific education course requirements must be of upper division standing and taken since 1930.

Credentials

Los Angeles State College is authorized to provide programs leading to the following:

1. Regular Teaching Credentials

- a. Kindergarten-Primary. For requirements see page 83.
- b. General Elementary. For requirements see page 77.
- c. Junior High School. For requirements see page 82.
- d. General Secondary. For requirements see page 68.
- e. Special Secondary in

Art. See page 69 and page 73.

Business Education. See page 69 and page 75.

Homemaking. See page 69 and page 81.

Limited Part-time in Industrial Arts. See page 69 and page 82.

Music. See page 69 and page 88.

Nursing Education. See page 69 and page 89.

Physical Education. See page 69 and page 89.

Speech Defects. See page 69 and page 95.

2. Special Education Credentials
 - a. Teaching the Blind. For requirements see page 74.
 - b. Teaching the Partially-sighted. For requirements see page 89.
 - c. Teaching the Deaf. For requirements see page 77.
 - d. Teaching Lip Reading to the Hard-of-Hearing Child. For requirements see page 86.
 - e. Teaching the Mentally Retarded. For requirements see page 87.
 - f. Correction of Speech Defects. For requirements see page 95.
3. Administration and Supervision Credentials
 - a. Elementary Supervision. For requirements see page 96.
 - b. Elementary Administration. For requirements see page 52.
 - c. Secondary Supervision. For requirements see page 96.
 - d. Secondary Administration. For requirements see page 97.
4. School Service Credentials
 - a. Child Welfare and Supervision of Attendance. For requirements see page 77.
 - b. Health and Development—School Audiologist. For requirements see page 80.
 - c. Health and Development—School Nurse. For requirements see page 80.
 - d. School Psychologist. For requirements see page 91.
 - e. School Psychometrist. For requirements see page 92.

COURSES OF INSTRUCTION

Prerequisite: Upper division standing for all education courses.

99 Reading Development on the College Level (1) I, II

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 survey test results, and/or the instructor's approval. (Formerly Education 156)

102 Growth and Development (2) I, II

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 the 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) I, II

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. (Formerly Education 105A, Early Childhood Education (Pre-School) and Education 105B, Early Childhood Education.)

106 Principles of Elementary Education (2) I, II

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) I, II

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) I, II

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 I, II

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 requirement 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) I, II

111B Instruction in the Teaching of Social Studies in Elementary Schools (1) I, II

111C Instruction in the Teaching of Language Arts in Elementary Schools (2) I, II

111D Instruction in the Teaching of Science in Elementary Schools (1) I, II

112 Principles, Curriculum and Methods in the Elementary School (8) I, II

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, 111A,B,C,D, and 147)

113 Psychological and Sociological Foundations of Education (5) I, II

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.

114 Core Course in Secondary Education (5) I, II

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 methods for the secondary schools. Observation in junior and senior high schools will be an integral part of the course.

117 Personality of the Teacher (2) I, II

Study of the techniques and methods of developing the social skills; outline of personality traits desirable in the well-adjusted teacher; evaluation of personality tests, and discussion of dress and grooming for the professional person.

130 Fundamentals of Counseling and Guidance (2) I, II

Prerequisites: Education 109, Education 110 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) I, II

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. (Formerly called Seminar in Secondary Education)

135 Diagnosis and Remedial Reading Procedures (3) I, II

The causes and nature of reading difficulties and the procedures for diagnosis and remedial treatment.

137 Reading Clinic (3) I, II

Prerequisite: Education 135, or consent of instructor. A situation designed to provide advanced students with practical experience in the use of diagnostic equipment and special reading techniques.

147 Audio-Visual Methods (2) I, II

Education 170 should be taken concurrently with this course. 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.

148 Advanced Audio-Visual Techniques (2) I, II

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.

149 The Teacher in the School and Community (3) I, II

To be taken concurrently with Education 150A-B. The problems of the teacher in his school and community life. Self evaluation and in-service growth, legal and ethical obligations, community service, professional organizations, problems of the teacher's physical and mental health. Taught by the school principal and the college supervisor where the directed teacher is assigned. Required for the elementary and kindergarten-primary credentials. (Formerly called The Teacher and the Community (2))

150A-B Directed Teaching in the Elementary Schools (4-4) I, II

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 (6) I, II

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.

160A-B Language for the Deaf (2-2) II, I

Prerequisite: Audiology 100 (may be taken concurrently). 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.

161A-B Speech for the Deaf (2-2) I, II

Prerequisite: Audiology 100 (may be taken concurrently). Principles and methods of eliciting meaningful speech from deaf children using tactile-kinesthetic, auditory, and visual senses.

162A-B Braille (3-3) I, II

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) I, II

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) II

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) I

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) I, II

Prerequisite: Audiology 100 (may be taken concurrently). 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) I, II

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.

167PS Methods of Teaching Partially Sighted Children (3) II

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.

170 Principals and Curriculum in Secondary Education (2)

Required of all students preparing for general secondary, special secondary, or junior high school credentials. 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 (2) I

The aims, scope, desirable outcomes, organization, administration and teaching of business education in the secondary schools.

179 Principles of Adult Education (2) I, II

Philosophy, aims, organization, administration and supervision of classes for adult students. The adult school and the community.

182 Methods and Instructional Materials in Adult Education (2) I, II

Effective methods, techniques and devices applicable to adult students based on psychological principles related to mature students; curriculum construction and development of units of work. (Formerly called Methods of Adult Education)

185 Child Welfare and Attendance (3) I, II

Attendance work, child accounting, home visitation methods, conference techniques, social case work, and agency relationships are included.

186 Laws Relating to Children (3) I, II

Educational and statutory regulations relating to children.

188 Psychology and Education of the Exceptional Child (3) I, II

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) I, II

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 in Secondary School.
- 193Bb Methods, Curriculum and Evaluation in Bookkeeping and Business Education in Secondary School.
- 193Bs Methods, Curriculum and Evaluation in Secretarial Subjects in Secondary School.
- 193Bt Methods, Curriculum and Evaluation in Typewriting in the Secondary Schools
- 193FL Methods of Teaching Foreign Language in Secondary School.
- 193HE Methods of Teaching Home Economics in Secondary School.
- 193IA Methods of Teaching Industrial Arts in Secondary School.
- 193LA Methods of Teaching English, Speech and Drama in Secondary School.
- 193Ma Methods of Teaching Mathematics in Secondary School.
- 193Mu Methods of Teaching Music in Secondary School.
- 193MuA Instrumental Methods and Materials.
Prerequisite: Music 193Mu.
- 193MuB Choral Methods and Materials.
Prerequisites: Music 161 and Education 193Mu.
- 193MuC Elementary Music Methods for Secondary Credential Candidates.
Prerequisites: Music 105A, 105C and 105D or 105E.
- 193N Methods of Teaching Nursing Education.
- 193PE Methods of Teaching Physical Education in Secondary School.
- 193Sc Methods of Teaching Science in Secondary School.
- 193SS Methods of Teaching History and Social Studies in Secondary School.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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) I, II

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) I

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) II

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) I

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) II

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) I

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) I, II

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. (Formerly Education 125 (2))

230 Advanced Study in Child Development (2) I, II

Prerequisite: Education 102 or equivalent. Consideration will be given to recent and outstanding contributions in research, practical experimentation, or theory which have important bearing on total development of children. The significance of the child development approach to the education of children will be emphasized.

231 Seminar in Elementary Education (2) I, II

Prerequisites: Education 102, 110 or 113A-B, 112 (Education 125 recommended but not required). 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 (2) I, II

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) II

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.

234 Seminar in Special Education (3) I, II

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.

235 Seminar in Mental Retardation (3) I, II

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.

237 Seminar in Vision (3) II

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.

260 Principles and Practices of Curriculum Development (3) I, II

Prerequisites: Basic methods courses in elementary and/or 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) I, II

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) II

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.

270 Organization and Administration of the Elementary School (2) I, II

Prerequisite: Graduate standing. A consideration of underlying principles, techniques and methods in the organization and administration of the modern elementary school; a discussion of the pertinent issues and problems relative to the administration of instructional and noninstructional aspects of the elementary school program, including auxiliary services, pupil services, the personnel administration.

271 Organization and Administration of Public School Systems (2) I, II

Prerequisite: Graduate standing. Problems in federal, state, county, city and other district school organization and administration; division of responsibility between school boards and superintendents; principles of public school staff organization and personnel administration, including qualifications and certification, employment, assignment, compensation, and retirement. (Formerly called School Organization and Administration)

272 School Law in California (2) I, II

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) I, II

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 (2) I

Prerequisite: Graduate standing. A consideration of underlying principles, techniques and methods in the organization and administration of the modern secondary school; a discussion of pertinent issues and problems relative to the administration of the instructional and noninstructional aspects of the secondary school program including auxiliary agencies, pupil services and personnel administration.

277 Personnel Problems in School Administration (2) I

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) II

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. (Formerly called School Public Relations)

279 The Planning, Operation, and Financing of School Building Programs (2) I

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 Technique of Counseling (3) I, II

Prerequisites: Graduate standing and Education 130 or equivalent. An advanced course in methods; a practicum in counseling techniques. Major activity is practice in socio-drama and analysis of recorded or transcribed counseling sessions; observation of counseling activities in schools and institutions.

282 Vocational Guidance (2) I, II

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.

298 Seminar in School Administration and Supervision (2) I, II

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.

299 Graduate Project (3) I, II

All candidates for the Master of Arts in Education degree will be required to include this course in their program. The nature of the project will depend upon the field of specialization. A carefully drawn plan, approved by the adviser, should be submitted to the Division of Education as early as possible in the graduate program.

349 Observation in Special Education (1) I, II

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) I, II

Prerequisites: The following courses must be taken prior to, or concurrent with, directed teaching: Education 113, 114, 130, 147, 193, and 232. 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) I, II

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.

ENGINEERING

(In the Division of Technical Sciences)

Staff: Duncan (Adviser), Andraea, Ball, Cromwell, Eller, Hazen, Joseph, Ward.

COURSES OF INSTRUCTION**CONSTRUCTION ENGINEERING**

See page 52 for program.

C.E. 101 Stresses in Structures (3) I

Prerequisites: G.E. 101A-B, 102A-B (102B may be taken concurrently). A study of the stresses in framed structures such as roof trusses and highway bridges. Two hours lecture and three hours laboratory per week.

C.E. 103 Reinforced Concrete (3) I

Prerequisite: C.E. 101 (to be taken concurrently). A study of the design and current practices in the construction of reinforced concrete structures. Three hours lecture per week.

C.E. 105 Specifications and Cost Estimating (3) II

Prerequisite: Junior standing. A study of methods and procedures in determining costs from the viewpoint of the contractor and construction engineer.

C.E. 106 Foundations and Soil Mechanics (3) I

Prerequisite: Junior standing. A study of the properties of soil and their action as related to problems encountered in construction. Soil classification, soil tests, stresses in soils, settlement and soil bearing capacity for foundations.

C.E. 107 Construction Equipment and Methods (3) II

Prerequisite: Junior standing. Lectures, field trips and assigned problems. A study of modern equipment and construction procedures.

C.E. 108 Structural Design (3) I

Prerequisites: G.E. 101A, 102A-B (102B may be taken concurrently). Structural drafting and elementary design problems based on the algebraic and graphical analysis of stresses in roof and bridge trusses and building frames. One hour lecture and six hours laboratory per week.

ELECTRICAL ENGINEERING

See page 52 for program.

E.E. 101 Electrical Circuits (4) I, II

Prerequisites: Physics-magnetism and electricity; mathematics through calculus. Review of fundamental units and concepts; resistance, inductance and capacitance in d-c and a-c circuits; series and parallel circuits, and networks; balanced and unbalanced polyphase circuits; power and power factor; electrical instruments and measurement. Three hours lecture and three hours laboratory per week.

E.E. 102A-B Electrical Machines (3-3) A-I; B-II

Prerequisite: E.E. 101. The magnetic circuit; d-c and a-c motor and generator construction, windings, characteristics and application; transformers; converters and rectifiers; transmission and distribution of electrical power; electrical energy and rates; special machines and applications. Two hours lecture and three hours laboratory per week.

E.E. 105 Industrial Electronics (3) I

Prerequisite: E.E. 102A and E.E. 112. A study of the electronic circuits and devices used in the industrial, medical and other noncommunication fields. Two hours lecture and three hours laboratory per week.

E.E. 107 Electrical Codes and Standard Practice (2) I

Prerequisite: E.E. 102A. A study of national and local electrical safety codes and their application to the design and installation of wiring systems and the installation of power apparatus; standard practice for such installations. Two hours lecture per week.

E.E. 109 Industrial Control (3) II

Prerequisite: E.E. 102A. A study of magnetic and manual industrial motor control systems and devices. Three hours lecture and three hours laboratory per week.

E.E. 110 Industrial Plant Electrical Systems (4) II

Prerequisite: E.E. 102B. Primary and secondary distribution systems for industrial plants; calculation of fault currents; overload and fault current protection; substations, switchgear and metering; signaling circuits and devices; illumination. Three hours lecture and two hours computation period per week.

E.E. 111 Electric Communication (2) II

Prerequisite: E.E. 112. A brief study of the entire field of electrical communication including telephone, telegraph, and radio. Three hours lecture per week.

E.E. 112 Basic Electronics (3) II

Prerequisite: E.E. 101. Introduction to electronic theory; a study of vacuum and gas-filled electronic tubes; elements of electronic circuits. Two hours lecture and three hours laboratory per week.

GENERAL ENGINEERING**G.E. 101A Strength of Materials (3) I, II**

Prerequisites: Math through calculus; physics mechanics. Elastic and ultimate resistance of materials; stress analysis; deflections and combined stresses.

G.E. 101B Strength of Materials Laboratory (1) I, II

Prerequisites: Physics mechanics; G.E. 101A taken concurrently. Tests of ordinary materials of construction in tension, compression, and flexure; determination of elastic limit; yield point; ultimate strength; and modulus of elasticity. One three-hour laboratory per week.

G.E. 102A-B. Engineering Mechanics (3-3) Year course

Prerequisites: Physics mechanics; math through calculus. An introductory course in applied mechanics for engineering students.

G.E. 103 Fluid Mechanics (3) II

Prerequisites: G.E. 102A-B. A study of the fundamental principles of the behavior of fluids (both liquids and gases) as encountered in the industrial field. Hydraulic problems intensively studied and the mechanics of all fluids examined in the light of modern research.

G.E. 104 Advanced Hydraulics (3) (See P.E. 104)**G.E. 105 Thermodynamics (3) I, II**

Prerequisites: Engineering analysis, heat engineering *or* elementary thermodynamics, *or* physics: mechanics and heat; general and organic chemistry. Energy transformation; thermal properties of gases and vapors; theoretical heat engine cycles; applications of elements of thermodynamics to industrial processes.

G.E. 106 Heating, Air Conditioning and Refrigeration (4) II

Prerequisite: P.E. 102. A comprehensive study and treatment of heating and air conditioning systems for residences, factories, office buildings, etc. A study of the refrigeration equipment use in domestic, commercial and industrial installations. Three hours lecture and three hours laboratory per week.

G.E. 198 Field Assignment and Reports (1-2) I, II

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

G.E. 199 Independent Study (1-3) I, II

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

See page 53 for program.

Pl.E. 101 Fluid Mechanics Laboratory (1) II

Prerequisite: G.E. 103A (may be taken concurrently). A study of flow problems in complex pipe systems, surge tanks, and in unsteady motion and causes of water hammer. Six hours of laboratory per week.

Pl.E. 102 Fire Sprinkler Systems (2) I

Prerequisites: G.E. 103A and Pl.E. 101. A study of the pressures required, types of orifices, spray conditions required to combat fire, thermal consideration of the system, and the ordinances involved in the construction of spray stems for proper fire control. Two hours lecture per week.

Pl.E. 103 Plumbing Estimating (2) II

Prerequisites: Pl.E. 102, Pl.E. 105 (to be taken concurrently). This course is a presentation of topics about time studies, on-the-job labor conditions, cost of materials, and other factors which influence the estimation of costs of plumbing. Two hours lecture per week.

Pl.E. 104 Advanced Hydraulics (3) I

Prerequisites: G.E. 103, Pl.E. 101. A study of the design, construction and installation of hydraulic machinery and equipment. Three hours lecture per week.

Pl.E. 105 Water Treatment and Sewage Disposal (3) I

Prerequisite: Junior standing. A study of the elements of water purification, sewage treatment, and refuse disposal. Three hours lecture per week.

Pl.E. 106 Building Codes (2) II

Prerequisite: Junior standing. A study of the Los Angeles City Building Code as it pertains to the field of plumbing. Two hours lecture per week.

PRODUCTION ENGINEERING

See page 53 for program.

Po.E. 102 Heat Power (3) II

Prerequisite: G.E. 105. Elements of heat transmission and related equipment. Heat engines using gases and vapors, with attention to their actual forms and thermodynamic cycles as well as to their ideal cycles. Economic aspects of heat power and heat transfer equipment. Two hours lecture and three hours laboratory per week.

Po.E. 103 Elements of Machine Design (3) I

Prerequisites: G.E. 101A, G.E. 102A-B (102B to be taken concurrently). Application of the principles of mechanics, selection of materials and fabrication processes to the design of simple machine parts. Two hours lecture per week, three hours laboratory per week.

Po.E. 105 Inspection Organization and Methods (3) I

Prerequisite: Senior standing. A study of approved methods for increasing effectiveness; simple procedures for reducing costs of inspection. Specified functional procedures are outlined for planning, organizing and operating the inspection department. A study of the data necessary for the orderly planning, accomplishing and recording of inspection, examination and testing of product. Three hours lecture per week.

Po.E. 107 Machine Design (3) I

Prerequisite: Po.E. 103. The application of the principles of engineering mechanics and strength of materials to the design of a complete machine. One hour lecture and six hours laboratory per week.

Po.E. 110 Power Plant Layout (3) II

Prerequisites: G.E. 105, Po.E. 102. A study of power plant equipment to give the student a real understanding of the part each piece of apparatus plays in the plant as a whole. One hour lecture and six hours laboratory per week.

ENGLISH

(In the Division of Language Arts)

Staff: Sandelin (Acting Head), Amneus, Bushman, Greer, Leary, Sandelin, Shroyer, Wilson.

Baccalaureate Major in English

1. Designed for students who elect to study the liberal arts tradition with an emphasis on English. See page 53 for program.
Adviser: Amneus.
2. Program designed for students who plan to engage in professional writing careers in the creative and commercial fiction fields, advertising and technical reporting. See page 53 for program.
Adviser: Sandelin.

Teaching Major in English

Designed primarily for students training to become secondary school teachers. See page 78 for program.

Major adviser: Amneus.

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102.

COURSES OF INSTRUCTION**99 Writing Laboratory (2) I, II**

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) I

Development of the English language as an instrument of social communication.

103 Semantics (2) II

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) I, II

Practical review of the more recurrent problems in English grammar. Emphasis on current grammar usage.

106A Preprofessional Writing (2) I, II

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.

106B Verse Writing (2) II

Prerequisite: Consent of instructor. Principles and techniques of verse writing applied to actual composition of student poems.

106C Short Story Writing (2) I

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) I, II

Selected Shakespeare plays are studied as dramatic literature.

121 Interpreting Fiction (3) I

Intensive study of representative short stories and novels.

123 Interpreting Poetry (3) II

Intensive study of representative poems in English.

124 Interpreting Dramatic Literature (3) II

Intensive study of representative plays in English.

128 Interpreting Children's Literature (3) I, II

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) I

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) II

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) I 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) I Alternates with English 142

Renaissance literature exclusive of drama.

152 The Age of Milton (3) II 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) II Alternates with English 152

158 The Romantic Age (3) I

160 The Victorian Age (3) II

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) I

May be taken separately, or in any sequence with English 170B.

170B Masters of American Literature, 1860-1950 (3) II

May be taken separately, or in any sequence with English 170A.

173 New England Renaissance (3) II

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) I

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) II

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) I

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) II

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) I

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) II

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*.

185A Literary Criticism to 1700 (2) I Offered alternate years

Prerequisites: Senior standing or consent of instructor. Major literary critics from Plato to Dryden. May be taken separately, or in any sequence with English 185B.

185B Literary Criticism Since 1700 (2) II Offered alternate years

Prerequisite: Senior standing or consent of instructor. Major literary critics from Pope to Croce. May be taken separately, or in any sequence with English 185A.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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. (Formerly called Investigation and Form for Project Writing)

220 Proseminar in Literature (3) I, II

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. Selected problems emphasizing the relevance of literary study for contemporary life. May be repeated for credit if a different course problem is undertaken.

FOREIGN LANGUAGES

(In the Division of Language Arts)

Staff: Bonhard.

Baccalaureate Major in Foreign Languages

Designed for students who elect to study the liberal arts tradition with an emphasis on modern languages. See page 64 for program.

Adviser: Bonhard.

Teaching Major in Foreign Languages

Designed primarily for students training to become secondary school teachers.

Adviser: Bonhard.

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102.

COURSES OF INSTRUCTION

FRENCH

101A-B Composition and Conversation (3-3) Offered alternate years beginning Fall, 1951

Prerequisite: Intermediate French.

102A-B French Literature: The Middle Ages to the Twentieth Century (3-3)

Offered alternate years beginning Fall, 1952.

Prerequisite: Intermediate French, or French 101A or 101B.

199 Directed Individual Studies (1-3) I, II

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.

SPANISH

101A-B Oral and Written Composition (3-3) Offered alternate years beginning Fall, 1952

Prerequisite: Intermediate Spanish.

102A-B Spanish Literature to 1800 (3-3) Offered alternate years beginning Fall, 1951

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B.

103A-B Spanish Literature Since 1800 (3-3) Offered alternate years beginning Fall, 1952

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B.

104A-B Survey of Spanish American Literature (3-3) Offered alternate years beginning Fall, 1951

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) I, II

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.

GEOGRAPHY**(In the Division of Social Sciences)**

Staff: Price (Department Head), Aschmann, Durrenberger, Lydolph, Nishi.

Major in Geography

Designed for students seeking a liberal education as well as for those with vocational interests. See page 54 for program.

Field of Concentration for the Master of Arts Degree

See page 100 for program.

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.

Prerequisites: A basic geography course or consent of instructor. **Exception:** No prerequisite for Geography 101.

101 Survey of the Modern World (3) I, II

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) I

Identification and study of the surface features of the earth and their meaning.

105 Cartography (3) II

Practice in the drawing of maps and other graphic devices. Lecture one hour, laboratory four hours.

109 Geography of the Pacific Area (3) I, II

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) I, II

The major climatic types of the earth, including their significance in the landscape and to man.

115 Physical Geography (3) I, II

The natural features of the continents, with emphasis on climate, landforms, soils, and plant life.

121 Geography of Anglo-America (3) I, II

Settlement and development of the regions of the United States, Canada, and Alaska.

122 Geography of Latin America (3) I, II

The development and character of the lands of Latin America.

123 Geography of Europe (3) II

The formation of the natural, cultural, and political regions of Europe and the Soviet Union.

124 Geography of Asia (3) I

A survey of the physical, economic, cultural, and political geography of China, Japan, Korea, India, Pakistan, and Southeastern Asia.

131 Geography of California (3) I, II

A regional study of California, including consideration of settlement and utilization of resources as topics of major interest.

141 World Resources (3) I, II

A study of the distribution and utilization of the various mineral, animal, and vegetable resources of the world.

161 Conservation of Natural Resources (3) I, II (See Conservation 161)**181 Political Geography (3) II**

Areal differentiation of the natural and cultural phenomena which affect the world's political organization.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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. (Formerly Geography 197)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree, superior academic performance, and specific permission.

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 occurrences of the physical qualities of the land (climate, land forms, soils, and vegetation).

299 Graduate Project (3)**GEOLOGY**

(In the Division of Natural Science)

Staff: Lydolph.

No major or minor offered.

COURSES OF INSTRUCTION**101 Principles of Geology (3) I, II**

Prerequisite: Upper division standing. Principles of physical and historical geology will be considered. Not open to students with credit in undergraduate geology.

110 Economic Geology (3) II

Prerequisite: Course in lower division Geology or Geology 101. Source, distribution, and exploration of economically important metallic and nonmetallic mineral deposits.

GOVERNMENT

(In the Division of Social Sciences)

Staff: Guild (Department Head), Black, Sandler, Warren.

Major in Government

The purpose of a major in Government is to prepare for one of four vocational objectives: (1) employment in government as a career, (2) foundational training for the practice of law, (3) foundational training for service in the international field, (4) undergraduate preparation for an advanced degree. Students who elect government as their undergraduate major must plan their programs as soon as they enter Los Angeles State College in consultation with the departmental adviser responsible for the program pertinent to the chosen vocational objective. There is no "general" major in Government. See page 54 for program and advisers.

Minor in Government

Fifteen units in Government are required as a minor, of which at least 9 must be in upper division courses approved by a departmental adviser.

Field of Concentration for the Master of Arts Degree

See page 101 for program.

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) I, II**

History and development of the American constitutional system and the ideals upon which it is based. This course is designed specifically to satisfy the United States Constitution requirement.

†103 State and Local Government (3) I, II

The structures, functioning, and relationships of state, county, and local governments, with special reference to California.

†104 Municipal Government (3) II

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) I, II

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) I

Survey of socio-political thought from the time of Plato to the present, with emphasis upon modern contributions.

113 American Political Thought (3) II

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.

* 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.

114 Public Opinion and Lobbies (3) II

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) II

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.

118 American Political Parties and Politics (3) I

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) I, II

Development of the theory and practice of American foreign policy, with emphasis on contemporary problems and procedures.

126 International Law (3) II

Progress and status of the law of nations; international adjudication; principles of national sovereignty; international agreements.

127 International Relations (3) I

The forces and motives influencing international politics and policies, with special attention to the United Nations and its current problems.

128 International Organization (3) I

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) I

A survey of the political structures, institutions, problems, and trends of the governments of the major European countries. (Formerly Government 150A-B)

151 Governments of Latin America (3) I

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) II

Analyses of the political institutions and problems of China, India, Japan, Indonesia, and the Philippines.

***157 Constitutional Law (3) I**

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) I

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) I, II

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) I

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) II

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) I Offered 1953-54

Principles of governmental accounting and financial controls; budgeting; capital outlays; treasury functions; governmental purchasing; assessment practices; financial reporting.

168 Public Welfare Administration (3) II

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) I

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) II Offered 1954-55

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) I Offered 1954-55

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) II Offered 1953-54

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) II

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) I, II

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) I, II

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. (Formerly Government 197)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree, superior academic performance and permission of the instructor in charge of the course.

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.

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.

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, Physical, and Recreation Education)

Staff: Elliot (Department Head), Cake, Deeds, Reeves, Warner.

Teaching Minor in Health and Safety Education

Designed for student's training to become secondary school teachers. See page 80 for program.

Field of Concentration for the Master of Arts Degree

See Health, Physical, and Recreation Education, page 101.

COURSES OF INSTRUCTION

113 Administration of School Health Programs (2) I

Prerequisites: R.N., M.D., or D.D.S., or consent of instructor. An undergraduate course designed for nurses, physicians, or dentists to fulfill the state code requirements for a health and development credential.

121 First Aid (1) I, II

Standard Red Cross first aid.

122 Survival Training Education (2) I, II

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) II

Prerequisite: Current Red Cross certificate in standard first aid. American Red Cross course which qualifies instructors in first aid.

150 School Health Education (3) I, II

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) II. Offered alternate years

Prerequisite: Health education or equivalent. Historical and modern efforts to meet health needs of the community.

154 Personal Health and Safety Problems (2) I, II

Fulfills state code requirements in health and safety education including statutory requirements, procedures, and organization and selection of materials.

174 Driver Education (2) I, II

A workshop type course designed to prepare secondary teachers for behind-the-wheel instruction in driver education courses. Persons enrolling must be qualified operators of motor vehicles in California.

175 Safety Education (2) I, II

The organization of safety work in secondary schools with emphasis on safe and courteous operation of motor vehicles.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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) II**

Prerequisite: Health Education 150 or consent of instructor. Bases for organization, content, and appraisal of a school health education program.

221 Appraisal and Guidance in Health and Safety Programs (2) I

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 public health programs, their functional organization, their importance and evaluation.

222 Seminar in Health and Safety Education Research (3) I, II

Prerequisite: Graduate standing. Investigation and analysis of research in health and safety education.

299 Graduate Project (3) I, II**HISTORY**

(In the Division of Social Sciences)

Staff: Catren (Department Head), DeArmond, Fleming, Greenwalt, Hansen, Jefferis, Rydell.

Major in History

May be undertaken to attain professional, academic, or cultural objectives, and for appointment as specialists in business, in government, and in cultural institutions. See page 56 for program.

Field of Concentration for the Master of Arts Degree

See page 101 for program.

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) Offered 1953-54

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) Offered 1954-55

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)

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, 1954)
- C. United States (fall, 1953)
- D. Asia (spring, 1955)

145 Europe: From the Renaissance to Waterloo (3) I

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) II

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) I, II

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) I (See Economics 172)

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

149 Russia and the Balkans (3) II

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 Norman 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) I

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) II

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) II

The course of the Mexican people and nation since the day 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) I**

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.

* Designates a course which satisfies the American History requirement.

*173 **The United States: The Nineteenth Century (3) II**

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) I, II**

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.

*175 **Economic History of the United States (3) II (See Economics 171)**

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

*177 **Social History of the United States (3) I**

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) II**

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) I**

Prerequisites: Six units of American history, or 6 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) I, II**

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) I, II**

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) I, II**

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) II**

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. (Formerly History 199)

* Designates a course which satisfies the American History requirement.

199 Independent Study (1-3) I, II

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. (Formerly History 197)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree, superior academic performance and specific permission.

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.

276 American Reform Movements and Reformers (3)

Cultural, political, and economic reforms with special emphasis upon utopian communities. This is a study of the "fringe" to find out why some reform movements failed while others became part of the American core.

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 Applied Arts and Sciences)

Staff: Graves, Chamberlain. Additional instructors from Los Angeles City College.

Baccalaureate Major in Home Economics

Designed for the student who desires intensive preparation for home and family life. See page 56 for program.

Teaching Major in Homemaking Education

Designed for the student who wishes to prepare for a career in teaching in the field of home economics. The major will serve for both the general secondary and the special secondary credentials. See page 81 for program.

Teaching Minor in Homemaking Education

Designed for the student who is a candidate for the general secondary credential and wishes to prepare for a second teaching subject in this field. See page 81 for program.

COURSES OF INSTRUCTION**100 Simplified Dressmaking (2) II**

For non-majors. This course involves a review of basic techniques and the use of effective shortcuts of interest to the homemaker.

101 Advanced Clothing (3) I, II

Prerequisite: Elementary clothing. Advanced garment construction involving the necessary skills in handling wool, silk, and synthetic fibers.

102 Tailoring (2) II

Prerequisite: Home Economics 101. The elementary processes involved in women's tailoring. Construction of a wool suit or coat is required.

111 Consumer Buying (3) I

The evaluation of home production and consumption of goods and services. Expenditures for essentials and luxuries as related to desired goal of health, ambition, and home life.

115 Marriage and Family Life (3) I, II

This course deals with the relationships between the members of the family and the effect these have on the development of each individual. It helps the student understand the problems involved in courtship, marriage, and homemaking.

121 Home Furnishing (3) I, II

Elementary art courses are recommended, but not required as a prerequisite. The home, its furnishings, decoration and equipment.

130 Dietetics (3) I

Prerequisite: An elementary course in nutrition and cookery or consent of instructor. This course develops the abilities of the student to apply the knowledge of nutrition to principles of diet therapy in modifying diets to meet pathological conditions. A comprehensive presentation of special diets commonly used in hospitals prepares the student for practical work in a diet kitchen.

131 Advanced Foods (3) II

Prerequisite: Elementary foods. The application of the scientific methods of study to problems in food preparation, with special emphasis on recipe analysis, food preservation and evaluating products.

140 Child Care and Training (3) I, II

The care and training of the preschool child. Emphasis is placed on physical care and the establishment of desirable emotional behavior patterns.

150 Home Management (2) I

This course is designed to develop efficiency and skill in the use of the time and energy in household management as well as the selection, care, and use of household equipment.

199 Special Problems in Home Economics (1-3) I, II

Independent study of home economics problems designed to meet the individual needs and interests of the major student with upper division standing. Approval of the staff of the home economics department is required.

JOURNALISM

(In the Division of Language Arts)

Staff: Scott, Williams.

Baccalaureate Major in Journalism

Designed for students who plan to engage in a professional career in journalism or related skills.

Adviser: Scott.

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 84, where the Language Arts Major is outlined.

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102.

COURSES OF INSTRUCTION

130A-B News Editing (3-3) I, II

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 (3) II

A study of the techniques of publishing, including typography, typesetting, photo-engraving, printing methods and machines. A background for understanding and supervising printing problems.

140 History of Journalism (3) I

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) II

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) I

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.

164J High School Journalism (2) II

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) II

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) I

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) II

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) I

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.

196A-B-C-D Special Projects in Journalism (2-2-2-2) I, II

Prerequisite: Consent of instructor. Recommended for members of the *College Times* staff. One hour class and four hours supervised activity weekly. Open to graduate students for credit to a maximum of 2 units.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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.

LANGUAGE ARTS

(In the Division of Language Arts)

Staff: Faculty from cooperating disciplines within Language Arts Division.

Baccalaureate Major in Language Arts

Not offered.

Teaching Major in Language Arts

This broad field major in language arts is a functionally organized composite program for students training to become secondary school teachers.

Adviser: Shroyer.

COURSES OF INSTRUCTION**100A Written Expression (3) I, II**

Prerequisite: One semester of freshman composition, grade of "C" in English 99, or junior standing. A junior level course in which the principles 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) I, II

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) I, II

Register for English 104, described on page 144.

130A High School Composition (3) I

Register for English 130A, described on page 145.

130B High School Literature (3) II

Register for English 130B, described on page 145.

164D High School Dramatics (2) II

Register for Drama 164D, described on page 127.

164J High School Journalism (2) II

Register for Journalism 164J, described on page 156.

164M Mass Communication Arts (2) I

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. (Formerly Lang. Arts 164, Motion Picture and TV)

164S High School Speech Arts (2) I

Register for Speech 164S, described on page 192.

197 Language Arts and the Democratic Tradition (2) I, II

Prerequisite: Senior standing. Required of all majors in Drama, English, Journalism, Language Arts, and Speech, who should preferably take it in the second semester of their senior year. Also open to senior students with majors in other fields. Role of the language arts in democratic life. An integrative review of the contribution from each of the language arts disciplines.

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. May be repeated for credit if a different course problem is undertaken. (Formerly called Curriculum Problems in the Language Arts)

MATHEMATICS

(In the Division of Natural Science)

Staff: Urner (Adviser).

Liberal Arts 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 57 for program.

Teaching Major in Mathematics

Designed for students who plan to become secondary teachers. See page 86 for program.

Teaching Minor in Mathematics

Designed for students who plan to become secondary teachers. See page 86 for program.

COURSES OF INSTRUCTION**107 Introduction to Modern Geometry (3) II**

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) I

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) I

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) II

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) I

Prerequisite: Calculus. Solid analytic geometry, functions of several variables, multiple integration and applications.

113 Elementary Statistical Methods (3) I, II

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.

114 Vectors and Allied Topics (2) I, II

Prerequisite: Calculus. The selection of topics for this course has been made upon the basis of their usefulness in applications. They include: empirical equations, interpolation, least squares, trigonometric development of functions, elements of vector theory.

115 Differential Equations and Applications (2) I, II

Prerequisite: Calculus. A study of the simpler types of differential equations with major emphasis on their applications in the sciences. Attention is given to the actual setting up of differential equations representing significant problems in physics, chemistry, electrical theory, etc.

117A Numerical Calculus (3) I

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) II

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) I

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) II

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) II

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) I

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) II

Prerequisite: Mathematics 131A. Nonparametric methods. Testing "goodness of fit." Testing statistical hypotheses. Design of experiments.

MICROBIOLOGY

(In the Division of Natural Science)

Staff: Anderson, Kazan. Additional instructors from Los Angeles City College.

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

Course leads to a major in Biological Science (Laboratory Technician). See page 47 for program.

Certain courses are applicable to the Biological Science Major. See page 47 for program.

COURSES OF INSTRUCTION**100A Principles of Microbiology (3) I**

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. Three hours lecture.

100B Microbiology Laboratory (1) I

A laboratory course to accompany Microbiology 100A. Three hours laboratory.

103A Medical Bacteriology (3) I

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

103B Medical Bacteriology Laboratory (2) I

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

105 Viruses (2) II

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

121 Serology (3) II

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) I

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) II

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) I

Prerequisite: General zoology or physiology and anatomy. The primary 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. Lecture two hours.

126 Histological Methods (3) I (See Zoology 126)**127 Medical Mycology (1) II**

Prerequisite: General microbiology or Microbiology 100A-B. An introduction to the pathogenic fungi commonly responsible for the mycotic infections of man.

190A-B Seminar (1-1) I, II

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) I, II

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) I, II

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.

MUSIC

(In the Division of Fine Arts)

Staff: Snyder (Department Head), Baxter, Beckstead, Cook, Leidig, Mullins, Plank, Timmerman.

Teaching Major in Music

Designed for those who expect to teach music in the public elementary or secondary schools. Courses in music may be taken which lead to the bachelor of arts and the special and general secondary teaching credentials. See page 88 for program.

Baccalaureate Major in Music

1. Designed for those who expect to become professional musicians or critics and wish supplementary training leading to a B.A. degree. See page 88 for program.
2. Designed for those who want to study music as part of their general cultural education. See page 58 for program.

COURSES OF INSTRUCTION**103A Music for Children (2) I, II**

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) I, II

Prerequisite: Music 103A. Methods of teaching music in the elementary schools. This course concentrates on singing, creative and listening experiences in the integrated program of the intermediate grades.

105A-B Stringed Instruments (1-1) A-I, II; B-I, II

Instruction in violin, viola, cello, and string bass. Problems of tone production, right- and left-hand technique, knowledge of fingering. Participation in beginning orchestra.

105C Brass Instruments (1) I, II

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) I, II

Class instruction in woodwind instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingerings on all woodwind instruments. Participation in beginning band or orchestra.

105E Percussion Instruments (1) I, II

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) I, II

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) I, II

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) I, II

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard string ensemble literature, including string orchestra, quartets, and trios, etc.

109A-B Elements of Vocal Technique (1-1) A-I; B-II

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) I

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 pre-classic eras.

110B Intermediate Voice (1) II

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) II

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)

Problems of piano technique, sight reading, and repertory. Introduction to keyboard harmony.

113 Elements of Harmony for Teachers (2) II

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 (1-1) I, II

Prerequisite: Music 112C. The practical application of harmonic principles to develop the keyboard facility demanded in the public schools; transposition, chord score reading, sight reading, improvisation of accompaniments and directing from the piano.

115A-B-C-D Band (1-1-1-1) I, II

Prerequisite: Consent of instructor.

- 116A-B-C-D Individual Lessons on Instruments or in Voice (1-1-1) I, II**
On-campus, private lessons with approved instructors. Special fee.
- 119A-B Review of Harmony and Ear Training (2-2) I, II**
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) II**
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) II**
Modern practical procedures in teaching piano from pre-school child to adult level. Methods and materials for public school class and private teaching.
- 125 General Music in the Junior High School (2) I**
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)
- 126 Music for Early Childhood (2) II**
Prerequisite: Music 103A. Methods of teaching singing, rhythmic, creative and listening activities and the use of simple instruments in the integrated program of the kindergarten and primary grades. Piano class coordinated.
- 127A-B-C-D Advanced Strings (1-1-1) I, II**
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) II**
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) I, II**
Prerequisite: Consent of instructor. Performance of art song, opera, and oratorio literature. Advanced techniques.
- 131A-B History of Music in Western Civilization (3-3) I, II**
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: Pre-classical to modern.
- 132A Italian and French Operatic Literature (2) I**
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) II**
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 (1-1-1) I, II**
Prerequisite: Consent of instructor.
- 145A-B-C-D Madrigal Singers (1-1-1) I, II**
Prerequisite: Consent of instructor.
- 146A-B-C-D Women's Glee Club (1-1-1) I, II**
Prerequisite: Consent of instructor. Designed for nonmusic majors.

147A-B-C-D Men's Glee Club (1-1-1-1) I, II

Prerequisite: Consent of instructor. Designed for nonmusic majors.

148A-B-C-D Intermediate Piano (1-1-1-1) I, II

Technical study and performance of some of the smaller compositions in the standard piano literature.

154 Music Appreciation (3) I, II

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) I, II

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) I

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) II

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-I; B-II

Prerequisites: Music 105A and Music 105D. The theory and practice of writing for instrumental ensembles. The study of orchestral scores and an introduction to symphonic orchestration.

161 Choral Conducting (2) I, II

Principles of choral conducting; problems of choral organization.

162 Instrumental Conducting (2) I, II

Prerequisites: Music 105A, 105C, 105D, 105E, 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.

163 Counterpoint (2) I, II

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) I, II

Masterpieces of symphonic literature. Classic, romantic and contemporary developments; study of scores and recordings.

168A-B Composition (2-2) A-I; B-II

Prerequisite: Music 158B (may be taken concurrently). Composition in small and large forms with parallel analysis.

169 Harmonic Analysis (2) I

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) I, II

Problems of opera production; presentation of typical operatic ensembles and scenes. Open to qualified singers.

172A Piano History and Literature (2) I

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) II

Development of forms and survey of the literature for string quartets, trios, quintets, and other small combinations.

172C Contemporary Techniques (2) I

Study of the techniques used in contemporary composition and application to practical writing.

172D American Music (2) II

American music from colonial times to the present; brief survey of Latin American music.

173A Art Song (2) I

A survey of literature for solo voice from earliest times to the present.

173B History and Literature of the Larger Choral Works (2) I

Historical and analytical study of oratorios, masses, cantatas, and other large choral works.

174A-B-C-D Advanced Piano (1-1-1-1) I, II

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) I, II

Prerequisite: Consent of instructor.

179 Senior Recital Preparation (1) I, II

For woodwind, brass and string instrumentalists. Instruction in advanced technical problems, style, repertoire and performance experience.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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) I**

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) I

Prerequisites: Education 193Mu and Education 193MuB. An advanced course in methods of teaching choral music; a survey and evaluation of current choral materials, with classifications as to appropriate levels; consideration of problems involved in various types of choral activities.

204 Advanced Problems in Instrumental Methods (2) II

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) II

A study of music as it relates to human experience. The mental processes involved in music. Analysis of talent in music and evaluation of tests and measurements as these apply in the study of various aspects of music. (Formerly Music 213)

208A-B Advanced Composition and Analysis (2-2) A-I; B-II

Prerequisite: Music 168A-B or equivalent. Free composition in all the vocal and instrumental forms.

209A-B Advanced Orchestration and Arranging (2-2) A-I; B-II

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) I

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) II

Prerequisite: Music 131A-B. Styles, forms, composers and compositions of pre-classical and classical masters of the eighteenth century.

214 Music of the Romantic Period (2) I

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 20th Century (2) II

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) I, II

On-campus, private lessons with approved instructors. Special fee.

261 Advanced Choral Conducting (2) II

Prerequisites: Music 161 and Music 162. (Formerly Music 177)

262 Advanced Instrumental Conducting (2) II

Prerequisites: Music 161 and Music 162. (Formerly Music 178)

263 Canon and Fugue (2) II

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) I, II**NATURE STUDY**

(In the Division of Natural Science)

Staff: Peterson, Ross. Additional instructors from Los Angeles City College.

No specific major given. Courses are a part of the requirements for the Life Science and General Science major and the Physical Science and General Science major. See pages 85 and 91 for the programs.

COURSES OF INSTRUCTION

110 Physical Science Activities (3) I (See Physical Science 125)

118 Everyday Nature (3) I

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. Great biological and physical principles discovered in the city expressed in seasons, weather, soil, environment and living things. Two hours lecture; two hours laboratory, plus field trips.

120 Nature in California (3) II

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. Two hours lecture; two hours laboratory, plus field trips.

125 Science Materials (3) II

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. Two hours lecture; three hours laboratory.

126 Science Materials (2) Summer only

Same content as Nature Study 125, but without the emphasis upon acquiring laboratory skills. Two hours lecture; demonstrations.

141 Conservation of Wild Life (3) II (See Conservation 141)

145 Marine and Shore Life (3) I

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. Saturday trips.

NURSING

(In the Division of Technical Sciences)

Staff: Bosworth (Department Head). Additional staff from cooperating hospitals.

Registered Nurse Program

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. This degree will be granted upon completion of the general requirements for the B.S. degree, major requirements, and a total of 128 units of work, including Nursing 108, Nursing 111, and Nursing 112. See page 58 for major requirements.

COURSES OF INSTRUCTION

100A Professional Adjustments (1) I

Prerequisite: Enrollment in affiliated hospital school. Instruction and guidance in the establishment of personal and professional standards in nursing.

100B Professional Adjustments (2) II

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) I

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) II

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 gastrointestinal, liver and biliary, circulatory, endocrine, and respiratory systems.

103 Pediatric Nursing (5)

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.

104 Psychiatric Nursing (5)

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)

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)

Prerequisite: Enrollment in affiliated hospital school. Clinical instruction in operating room procedure and practice.

106 Tuberculosis Nursing (3)

Prerequisite: Enrollment in affiliated hospital school. The medical and social aspects of tuberculosis, including control programs, nursing measures, and rehabilitation.

107A Maternity Nursing (2)

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)

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)

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)

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)

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)

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)

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)

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.

140 Drugs and Solutions (3)

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)

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.

142A-B Ward Management (2-2) I, II

Not a required course. This course has been requested by the Department of Nursing Services, Los Angeles County General Hospital, and is of interest in a special field of nursing.

PHILOSOPHY

(In the Division of Social Sciences)

Staff: J. Wilson.

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) I

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) II

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) I, II

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, Physical, and Recreation Education)

Staff: Cake (Department Head for Women), Wise (Department Head for Men), Adams, Berg,* Deeds, Doig,* Elliot, Ennen,* Jumonville, Losee, Mochel, O'Brien, Reeves, Taylor, Warner.

Baccalaureate Major in Physical Education

Designed for students who expect to become physical education leaders in other than public school programs. See page 59 for program.

Teaching Major in Physical Education

Designed for students who plan to teach in the secondary schools. See page 89 for program.

Teaching Minor in Physical Education

Designed for students who plan to teach in the secondary schools. See page 90 for program.

Field of Concentration for the Master of Arts Degree

See Health, Physical, and Recreation Education, page 103.

COURSES OF INSTRUCTION**100 Varsity Athletics**

Counts as activity credit for one semester only as follows:

- 100A Baseball (1) II
- 100B Basketball (1) I
- 100C Football (1) I
- 100D Track and Field (1) II
- 100E Water Polo (1) I
- 100F Cross Country (1) I
- 100G Wrestling (1) I
- 100H Golf (1) II
- 100I Tennis (1) II
- 100J Bowling (1) I
- 100K Swimming (1) II
- 100L Gymnastics and Tumbling (1) II

101 Aquatic Skills (1) I, II**102 Tennis Skills (1) I, II****103 Golf Skills (1) I, II****105A Advanced Team Sports Skills (1) I**

Advanced practice in performance techniques and analyzation procedures for various team sports designed for the major in physical education and recreation. Selection of activities dependent upon the needs of students enrolled. Two one-hour class period.

105B Advanced Dual and Individual Sports Skills (1) II

Practice in advanced performance techniques and analyzation procedures for various team sports. Designed for the major student in physical and recreation education. Selection of activities dependent upon the needs of students enrolled.

106 Basic Dance Skills (1) I, II

Survey, analysis and practice of the fundamental dance skills of all types of dancing.

* Part-time staff.

107 Badminton Skills (1) I, II

One two-hour activity period or two one-hour activity periods per week. Development of skill in playing badminton. The course covers the etiquette, rules, background, and techniques of playing badminton.

114 Kinesiology (3) II

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) I

Prerequisites: Human Anatomy, Kinesiology. 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) I

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) I, II

Prerequisites: Human Anatomy, Physiology, Physiology of Exercise, First Aid. 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) I, II

Physical education in the elementary schools; program organization and activities.

121 Water Safety (1) I

Red Cross senior life saving.

125 Methods of Teaching Square and Round Dance (2) II

Techniques and materials for teaching and calling square and round dances.

126 Methods of Teaching Modern Dance (2) II

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) I

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) II

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) I

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) II

Prerequisite: Current Red Cross certificate in senior lifesaving. American Red Cross course which qualifies instructors in water safety.

132 Methods in Teaching Individual Sports (2) I, II

Organization and techniques of teaching individual and dual sports.

133 Methods of Coaching Football and Basketball (2) I

Prerequisite: Football and 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.

134 Methods of Coaching Track and Field and Baseball (2) II

Prerequisites: Track and field and baseball activity or consent of instructor. Problems involved in coaching track and field and baseball; methods of coaching skills and techniques of baseball, track, and field events; laboratory practice.

135 Methods of Coaching Tennis and Swimming (2) II

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) I

Problems and techniques of officiating the various sports for boys and men.

138 Sports Officiating for Women (2) II

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) I

Aims, organization, administration, and program of the school camp.

144 Organization and Administration of Physical Education and Athletics (2) II

Administrative policies, selection of staff; construction and use of facilities; class organization, finances and budgeting; purchase and care of equipment; publicity.

145 History and Principles of Physical Education (2) I

Background and development of present-day problems, issues, and controversies in the field of physical education.

198 Field Assignment and Reports (1-2) I, II

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) I, II

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) I**

Prerequisite: Education 109. Tests of anthropometry, organic function, native physical capacity, achievement, and knowledge; their uses in the physical education program.

210 Supervision of Physical Education (2) I

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) I, II

Prerequisite: Graduate standing. Consideration of current problems in physical education through analysis of literature and research findings.

245 Program Planning in Physical Education (2) II

Prerequisites: Graduate status with major in physical education or consent of instructor. History, background, philosophy and 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) I

Prerequisite: Graduate status. Current problems and recent trends in the conducting of intramurals and interscholastic athletics. Principles, procedures, and organization in competitive athletics.

299 Graduate Project (3) I, II**PHYSICAL SCIENCES****(In the Division of Natural Science)**

Staff: Peterson, Shepherd. Additional instructors from Los Angeles City College.

Physical Science 100 is a general education course. Physical Science 200A-B represents a graduate course for the Physical Science major and Physical Science and General Science major.

COURSES OF INSTRUCTION**100 Survey of Physical Science (3) I, II**

No requisites. An overview of the chief branches of the physical sciences as applied to modern living. Not open to students who have taken college courses in chemistry, physics, geology, astronomy, or meteorology.

125 Physical Science Activities (3) I

Experience and collections in functional aspects of geology, meteorology and astronomy. Field work in collecting rocks, studying stars, making weather observations, examining soil types and erosions, and making topographic, star and weather maps. Designed for physical science-general science majors and minors. Two hours lecture; two hours laboratory plus field trips.

200A-B Graduate Seminar (1-1) I, II

Reviews and discussions of current literature to provide an acquaintance with present developments in physical sciences.

PHYSICS**(In the Division of Natural Science)**

Staff: Instructors from Los Angeles City College.

COURSES OF INSTRUCTION**110 Modern Physics (3) I, II**

Prerequisite: Lower division physics or chemistry. An introduction to the basic principles of modern particle physics and electronics. The approach is nonmathematical and stresses accurate understanding of the basic concepts. An enlightening course for the teaching majors. Lecture and demonstration.

111 Electrical Measurements (3) II

Prerequisite: General physics (electricity and magnetism), calculus. Involves the theory and use of electric and magnetic instruments and methods. Lecture two hours; laboratory three hours.

112 Basic Physical Electronics (3) I

Prerequisite: General physics (electricity and magnetism), calculus. Considers the basic physical and electrical principles involved in the design, construction, and operation of the various electronic tubes. Lecture two hours; laboratory three hours.

198 **Field Assignment and Reports (1-2) I, II**

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

POLICE SCIENCE AND ADMINISTRATION

(In the Division of Technical Sciences)

Staff: Barker (Department Head), Bennett,* Burger,* Davis,* Duncan,* Fulton,* Gourley,* Iannone,* Ireland,* Koenig,* Walton.*

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. See page 58 for Inservice and Preservice programs.

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) I, II

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) II

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) I

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) I

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) I

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) I

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.

* Part-time faculty.

† See Government, Psychology and Sociology for other courses in this field.

138 Advanced Criminal Investigation (3) II

Modus operandi; sources of information; undercover techniques and informants; reconstructing the crime; departmental facilities and cooperation; coordination with other law enforcement agencies; mechanics of interviewing and taking of statements; observation and description; surveillance, notes, reports, and evidence in court. As time permits, investigative techniques applicable to specific crimes such as homicide, burglary, arson, etc., will be considered.

139 Traffic Regulation and Control (3) II

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) I

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 planning, including riot, parade, and crowd control.

141 Juvenile Law (3) I, II

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) I, II

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) Offered alternate years

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) I

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) II

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.

146 Police Teaching Techniques (3) Offered alternate years

Techniques and methods of development of teaching skills; desirable personality traits; tests and their evaluation; audio-visual methods; planning and curricula, including objectives, procedures and evaluations; basic principles and techniques in dealing with specialized problems.

147 Correctional Administration (2) Offered alternate years

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)**

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) II**

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)**

Practical methods whereby the police officer can determine what the law is; jurisdictional 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) I, II (See Sociology 155)**198 **Field Assignment and Reports (1-4) I, II (Maximum of 4 units in any academic year to a total of 8 units)**

Prerequisite: Active, approved employment under the Work-Study or Internship program. Analysis and reports of the student's performance; regular group meetings.

199 **Special Police Problems (3) I, II**

Studies designed to meet the special needs of students in their particular field of interest; assigned readings and a special report will be required. This course is required of all students majoring in Police Science. May be repeated for credit with the consent of the instructor.

PSYCHOLOGY

(In the Division of Social Sciences)

Staff: Wilkening (Department Head), Bernberg, Diamond, Goldenberg, Haralson, Hutchinson, Lewis, Thompson, Troup, D. Wilson.

Major in Psychology

Designed for students who wish to gain a solid foundation in undergraduate courses in preparation for graduate work. See page 61 for program.

Industrial Psychology Advisory Committee: Mr. William A. Andrews, Jr., Superintendent of Personnel, Bullocks, Inc.; 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.

Field of Concentration for the Master of Arts Degree

See Psychology, page 103

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) I, II**

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.

104 **Psychology and Education of the Exceptional Child** (3) I, II (See Education 188)

106 **Mental Deficiency** (3) I, II

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) I, II

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) I, II

Historical overview of abnormal psychology; criteria of abnormal behavior; symptomatology; disturbing forces in personality formation; and therapeutic considerations.

112 **Child Psychology** (3) I, II

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) I, II

Recommended prerequisite: Psychology 112. Problems of adolescents; physical and social development during adolescence.

114 **Experimental Psychology** (3) I, II

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) I, II

The relationship between integrated behavior and physiological processes. Study of theories relating psychology and physiology.

120A **Elementary Statistical Methods** (3) I, II (See Mathematics 113)

120B **Statistical Methods in Psychology** (3) II

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) I

Consideration of the history of psychology from its beginnings in ancient philosophy and medicine to the end of the nineteenth century.

126B **Contemporary Schools of Psychology** (3) II

Contemporary psychological theories and systems in their historical perspective and present position.

127A **Psychological Testing (Group)** (3) I, II

Prerequisite: Psychology 120A or equivalent. Selection, administration, and interpretation of commonly used group tests of intelligence, interests, aptitudes, etc.

127B **Psychological Testing (Individual)** (3) I, II

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) II

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 Physical Atypical) (3) I

Prerequisite: Psychology 127B. Selection, administration, and interpretation of tests used for appraising the atypical individual. Survey of etiological theories.

130 Psychology of Personality (3) I, II

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) II

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) I

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) II (See Sociology 145)

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group.

154 Survey of Clinical Psychology (3) I, II

Prerequisite: Psychology 110. An elementary course in clinical techniques of psychology which shows how the methods of measuring aptitude and adjustment factors may be applied to the individual case for purposes of diagnosis and clinical counseling.

156 Industrial Psychology (3) I, II

Psychological techniques in modern industry; selection, training, and evaluation of employees; morale and promotion; fatigue and safety practices.

160 Counseling and Interviewing (3) I, II

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) I, II

A consideration of major theoretical systems of learning; Hull, Guthrie, Tolman, Skinner. Analysis and interpretation of experimental literature.

170 Psychology of Marital Adjustment (3) I, II

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) I

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) I

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) II

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) I, II

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) I, II

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) I, II

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. (Formerly Psychology 197)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree, superior academic performance and specific permission.

212 Behavior Disorders in Children (3)

Application of principles of psychiatry to behavior disorders in children. Designed primarily for clinicians, social workers, and parent educators. (Formerly called Introduction to Child Psychiatry)

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)

Recommended prerequisite: Psychology 227, or consent 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 consent 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.

265 Motivation (3)

Examination of various theories of motivation. Analysis of such concepts as drives, urges, instincts, interest, needs, etc.

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 therapy.

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.

290 Seminar in Advanced General Psychology (3)

Recommended as preparation for the master's comprehensive examination.

299 Graduate Project (3)

(Formerly called Seminar in Current Problems in Psychology)

PUBLIC HEALTH

(In the Division of Natural Science)

Staff: Anderson. Instructors from Los Angeles City Health Department.

No major or minor given. Courses designed primarily to qualify practicing sanitarians for the Registered Sanitarian Examination. Public Health 112 and 120 recommended electives for Biological Science (Laboratory Technicians) majors.

COURSES OF INSTRUCTION

103 Biological Foundations of Sanitation (3) I

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

105 Physical Principles of Sanitation (3) II

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) I

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) II

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 Disease (3) I

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) II

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 (3) II

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. Lectures and demonstrations.

RECREATION EDUCATION

(In the Division of Health, Physical, and Recreation Education)

Staff: Willott (Department Head), Cake, Elliot, Losee, O'Brien, Taylor.

Baccalaureate Major in Recreation Education

Designed for students who plan professional leadership in recreation fields. See page 63 for program.

COURSES OF INSTRUCTION**160 Special Events in Recreation (2) I** Offered alternate years beginning Fall, 1952

The function of, and planning for, festivals and pageants in the community and private recreation programs.

161 Social Recreation Leadership (2) II

Leadership techniques in the various social phases of recreation.

175 Organization and Administration of Recreation (3) I

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) I, II

Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.

176B Directed Leadership in Public Recreation Agencies (3) I, II

Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.

177 Community Relations in Recreation (2) I

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) I Offered alternate years

The fundamental techniques of organization and administration of recreation in industry.

179 Organization and Administration of Club Activities (2) I Offered alternate years beginning Fall, 1952

Techniques in the organization and general program planning for recreation in club activities.

185 The Recreation Program (2) I

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) I

Conduct of community dancing including advanced techniques in round, square, and social dances.

188 Camp Leadership (2) II

Techniques of camp counseling and leadership, some program content and visits to nearby camps.

189 Philosophy of Recreation (2) II

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) I, II

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) I, II

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) II**

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) I

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) II

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.

Major in Social Science

Intended for students whose objective is a liberal education with main emphasis given to the social sciences. See page 63 for program.

Teaching Major in "Social Studies"

Designed for students who choose Social Studies as their composite field major for the general secondary credential. See page 93 for program.

Teaching Minor in "Social Studies"

Designed for students who choose Social Studies as their composite field minor for the general secondary credential. See page 93 for program.

Field of Concentration for the Master of Arts Degree

See page 103.

NOTE: Most courses in the major and minor are chosen from the subject fields in the division of Social Sciences.

COURSES OF INSTRUCTION

Prerequisites: Completion of two introductory courses in the social sciences.

100 *The United States* (2) I, II

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) I, II

Nature and application of logic, in its relations to the social sciences. Special attention is given to the foundation in inductive logic of the methods of scientific inquiry. Not open to students who have completed a course in inductive logic.

169 *Contemporary Latin America* (3) Offered 1954-55

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, superior academic performance, and specific permission.

250A-B *Seminar in Social Science* (3-3)

An interdisciplinary approach to selected problems, regions, or trends; directed by the staff of the division. Begins either semester.

SOCIOLOGY

(In the Division of Social Sciences)

Staff: Nahrendorf (Department Head), Diehl, Ford, Penchef, Wallace, J. Wilson.

Major in Sociology

Designed for students interested in the scientific study of social processes as related to social institutions and the phenomena arising out of individual and group relations. See page 64 for program.

Field of Concentration for the Master of Arts Degree

See page 104.

COURSES OF INSTRUCTION

Prerequisite for upper division courses: Introduction to Sociology, or consent of instructor.

102 Social Processes and Concepts (3) I, II

An interpretation of such social processes as competition, conflict, accommodation, and assimilation, and a clarification of the various sociological concepts. The different fields of sociology are studied from the standpoint of their contributions to present day American life.

103 Marriage and the Family (3) I, II

The family as a social institution; evolution of marriage and the family through primitive, ancient, and modern times. Recent social changes affecting the family; the relationship of the family to industry, school, church, and state. Love and courtship, mate selection, and marital success; processes of family conflict and family disorganization.

104 Cultural Anthropology (3) I, II (See Anthropology 104)

Either 104 or 105 may carry sociology credit, but not both.

105 Culture and Personality (3) I, II (See Anthropology 105)

Either 104 or 105 may carry sociology credit, but not both.

110 The City (3) I

Urbanization from the standpoint of its influence on human behavior. The structure of the modern city and the personal and social disorganization which evolve from the growth of the metropolitan area. (Formerly called Urban Sociology)

112 Regions of the United States (3) II

Ecological factors in society. Particular attention is given to social and cultural regionalism in the United States. (Formerly called Regional Sociology)

122 Social Change (3) II

Changes in technology, ideology, and social organization. Theories of social change and progress. Adjustments within society to social change.

126 Social Legislation (3) I

Since, in a dynamic society, all social processes do not change at the same rate, the social legislation process is treated as a compensatory mechanism. The developing pattern of laws relating to family and child welfare, wages, hours, working conditions, social insurance, employment of women, and dependency is studied and referred to the larger cultural body of which it is a part. The steps leading to the enactment of new laws concerning social issues are considered.

145 Social Psychology (3) I (See Psychology 145)

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group.

146 Social Control (3) I

Nature of social controls, and their classification. Means and agencies, with particular attention to institutional controls in law, religion, education, the family and the economy, and to deliberate noninstitutional controls.

147 Mass Communication and Propaganda (3) I

Communication in its sociological aspects, with particular attention to mass and crowd behavior. Propaganda in its relationship to social actions and social systems.

148 Juvenile Delinquency (3) I, II

Extent and distribution, with emphasis on the local area. Meaning implications and treatment of delinquency. Personal and environmental conditioning factors.

150 Population (3) I

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) I, II (See Police Science 155)

Investigation of the nature of crime, and the conditioning factors associated with criminal behavior of the individual and group.

156 The Field of Social Work (3) I, II

A general course designed to familiarize the student with the development of American social work; the diversity, scope and specific programs used in meeting welfare problems in contemporary society.

158 Community Organization (2) II

The sociological and ecological aspects of community life. The modern community as the product of interacting economic and social processes. The results of particular plans are studied as reflecting the strengths and weaknesses of the social research methods previously applied to the problems with which they are supposed to deal. Social agencies and welfare services in general and in relation to the local situation.

159 Child Welfare (3) II

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) II

The sociological analysis of emergent patterns of employee, employer, and consumer relationships. The sociological frame of reference and specific social science research techniques are applied to typical problems in the fields of personnel administration, vocational guidance, job training, industrial health, employee morale, and collective bargaining. (Formerly called Industrial Sociology)

163 Elementary Statistical Methods (3) I, II (See Mathematics 113)**164 Social Statistics (3) I, II**

Prerequisite: Sociology 163. Statistics treated as a language of number made up of quantitative parts of speech, which are used according to the rules established by the statistical grammar. Practice is given in 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) I, II

Contributions of social philosophy and social and natural sciences to the growth of sociology; treated historically and analytically from the point of view of contemporary sociological thought.

168 Contemporary Sociology (3) II

Growth of sociology in the United States; contributions of present-day sociologists, relation of sociology to other fields, such as psychology, education, anthropology, and social work. Occupational opportunities and trends in sociology.

170 Methods of Social Work (3) I, II

Principles, practices, and theories underlying 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) I

A survey of general and specific treatment programs used in the rehabilitation of the offender in correctional institutions, probation and parole. Field trips. (Formerly called Treatment Programs for the Adult and Juvenile Offender)

175 In-service Training (Variable credit) I, II

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) I

An analysis of the processes leading to the organization and disorganization of majority and minority group relations. Ways in which social systems are affected by segregation, invasion, and succession. Attention is given to the latest findings of social research concerning the most successful experiments in the field of ethnic group interaction. (Formerly called Patterns of Ethnic Group Behavior)

194 Social Dynamics of Abnormal Behavior (3) II

The social aspects of personality disorganization. Social research methods applied to the problem of individual and group tension.

197 Introduction to Social Research (3) I, II

Prerequisites: Inductive Logic and Scientific Method, or Social Science 150, or equivalent. Application of the scientific method of 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 Sociology 199)

198 Field Assignment and Reports (1-2) I, II

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) I, II

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. (Formerly Sociology 197)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree, superior academic performance, and specific permission.

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 nonparametric 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.

299 Graduate Project (3)**SPEECH**

(In the Division of Language Arts)

Staff: Sandelin (Acting Head), Douglass, Huber, Stansell.

Baccalaureate Major in Speech

1. Designed for students who elect to study the liberal arts tradition with an emphasis on speech. See page 64 for program.

Adviser: Douglass.

2. Designed for students who plan to engage in speech therapy as a career. See page 65 for program.

Adviser: Huber.

Teaching Major in Speech

Designed primarily for students training to become secondary school teachers.

See page 104 for program.

Adviser: Stansell.

Field of Concentration for the Master of Arts Degree

See "Language Arts," page 102.

COURSES OF INSTRUCTION**REMEDIAL SPEECH****99 Individual Speech Therapy (1) I, II**

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 Advanced Public Speaking (2) I, II

Prerequisite: Three units of public speaking. Preparation and delivery of formal speeches. Emphasis upon audience analysis and speeches for special occasions.

111A-B-C-D Persuasive Speaking (2-2-2-2) I, II

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. (Formerly Speech 111)

120 Oral Interpretation (3) I, II

Intensive study of the theory of oral interpretation. Student participation in the reading of poetry and prose before the class. (Formerly called Theories and Techniques of Oral Interpretation)

129 Bases of Speech (2) I

A study of the function and production of speech as a unique human characteristic. Particular attention to physiological and social aspects of normal speech.

130 Advanced Voice and Diction (2) I, II

Prerequisite: Consent of instructor. Advanced studies in phonation, articulation, and pronunciation. Special attention given to diction for classroom teachers, for the public speaker, and for the stage.

SPEECH THERAPY**131 American Phonetics (2) I, II**

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.

134 Introduction to Speech Therapy (3) I, II

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 (2) II

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) I, II

Prerequisite: Speech 134 or equivalent. Practical experience with speech handicapped individuals. Work in the Speech Clinic under the supervision of the faculty.

SPEECH EDUCATION**164S High School Speech Arts (2) I**

Prerequisite: Consent of instructor. Techniques of speech in the secondary schools. Survey of textbooks suitable for high schools and junior colleges. Includes public speaking, oral interpretation, debate, and the presentation of assemblies. Not a methods course, as emphasis is on subject field skills. (Formerly called Speech in the Secondary Schools)

198 Field Assignment and Reports (1-2) I, II

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) I, II

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. (Formerly called Directed Individual Studies)

GRADUATE COURSES**205 Performance (2)**

Prerequisites: Speech 120 or equivalent and graduate standing. Planning and presentation of monodramas, book reviews, and speeches for recitals, radio, television. Offered when demand warrants.

220 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, and their relationship to the dynamics of personality development. May be repeated for credit when a different course problem is undertaken.

236A-B-C-D Clinical Practice (1) I, II

Prerequisites: Speech 134 or equivalent, and graduate standing. Practical experience with speech handicapped individuals. Work in the Speech Clinic under the supervision of the faculty.

ZOOLOGY

(In the Division of Natural Science)

Staff: Griesel, Kazan, Ross. Additional instructors from Los Angeles City College.

Courses are part of the Liberal Arts majors in Biological Sciences and the Life Science and General Science teaching major. See pages 47 and 85 for programs.

COURSES OF INSTRUCTION**105 Mammalian Embryology (4) I**

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. Two hours lecture; six hours laboratory.

106 Comparative Vertebrate Anatomy (4) II

Prerequisite: One year of general zoology or equivalent. The anatomical comparison of the various classes of animals belonging to the phylum chordata, such as the cat, turtle, and salamander, stressing the skeletal, muscular, circulatory, nervous, and urogenital systems. Two hours lecture; six hours laboratory.

107A-B Mammalogy (2-2) I, II

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. One hour lecture; three hours laboratory or field work.

110 Genetics (2) II

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

122 Hematology (3) (See Microbiology 122)**123A-B Birds of California (2-2) I, II**

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. One hour lecture; three hours laboratory or field work.

124 Parasitology (3) (See Microbiology 123)**125 Introduction to Pathology (2) (See Microbiology 125)****126 Histological Methods (3) I**

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

128 Arthropod Vectors (3) II

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

190A-B Seminar (1-1) I, II

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) I, II

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) I, II

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.

COURSES OF INSTRUCTION

Faint, illegible text listing various courses and their descriptions, likely a continuation of the course catalog from the previous page.

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