

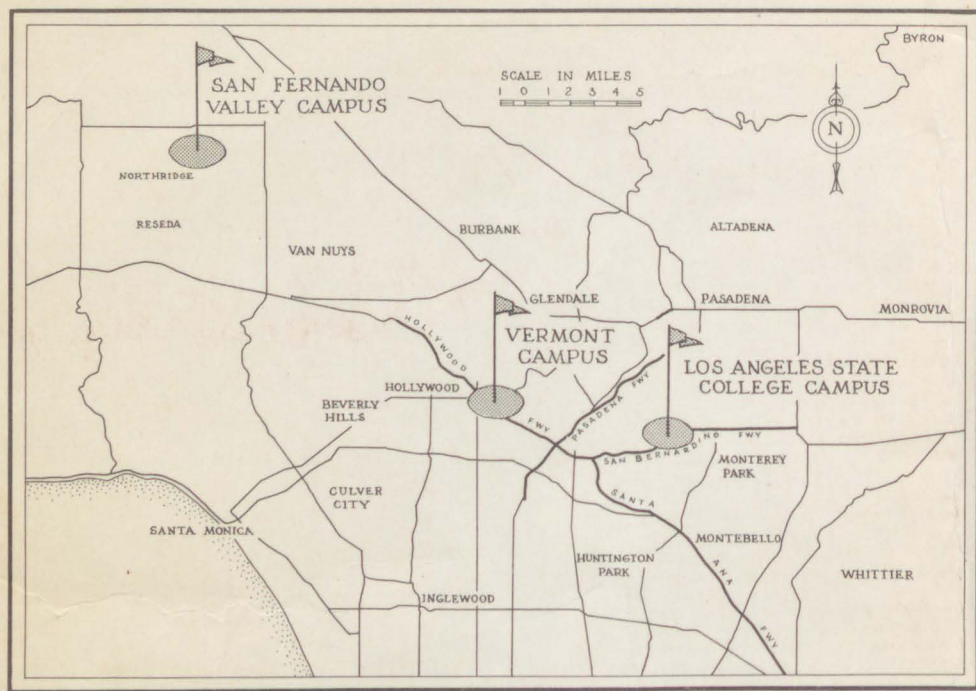
EDUCATION ROOM

Los Angeles State College
of Applied Arts and Sciences

BULLETIN 1957-1958

Los Angeles State College Library

A THREE-CAMPUS COLLEGE, 1957-58



**SAN FERNANDO VALLEY
CAMPUS**
Northhoff Street and Zelzah
Avenue, Northridge

VERMONT CAMPUS
855 North Vermont Avenue

**LOS ANGELES STATE COLLEGE
CAMPUS**
San Bernardino Freeway and
Eastern Avenue

READ CAREFULLY

- I. The Los Angeles State College of Applied Arts and Sciences will offer courses on three campuses during 1957-1958. The distribution of majors and minors among the three campuses (see next page) will determine the "home" campus of each student.
- II. Courses to meet General Education requirements will be offered on all three campuses. Students entering the college as Freshmen on the Valley campus should consult the special brochure outlining the new General Education program.
- III. Students may elect courses on a campus other than their "home" (major or minor) campus, provided such courses are not offered on their "home" campus.
- IV. Students should consult the *Schedule of Classes* for the precise courses offered on each of the three campuses each semester.

DISTRIBUTION OF THE COLLEGE PROGRAM AMONG THE THREE
CAMPUSES FOR THE ACACEDMIC YEAR, 1957-58

Department	Los Angeles State College, Ramona Campus	Vermont Campus	San Fernando Valley Campus
Art.....	Major	--	Major
Biological Science.....	--	Major	--
Botany.....	--	Major	--
Business.....	Major	--	Major
Business Education.....	Major	--	Major
Economics.....	Major	--	Major
Elementary Education.....	Major	--	Major
Elementary Administration ¹	--	Major	Credential
Elementary Supervision ¹	--	Major	Credential
Elementary Teaching ¹	--	Major	Selected Courses
Engineering.....	--	Major	--
English.....	Major	Selected Courses	Major
French.....	Minor	--	--
Geography.....	Major	--	Selected Courses
Government.....	Major	--	Major
Guidance ¹	--	Major	Credential
Health Education.....	Minor	Major	Minor
History.....	Major	--	Major
Home Economics.....	--	Major	--
Industrial Arts.....	--	Major	--
Journalism.....	Major	--	--
Kindergarten—Primary Education.....	Major	--	Major
Language Arts.....	Major	Selected Courses	Selected Courses
Life and General Science.....	Selected Courses	Major	Major
Mathematics.....	--	Major	Major
Microbiology.....	--	Major	--
Music.....	Major	--	Major
Nursing.....	--	Major	--
Physical Education.....	--	Major	Major
Physical Science.....	--	Major	--
Physical and General Science.....	--	Major	Major
Psychology.....	Major	--	Selected Courses
Police Science.....	--	Major	--
Recreation Education.....	--	Major	--
Secondary Administration ¹	--	Major	Credential
Secondary Supervision ¹	--	Major	Credential
Secondary Teaching ¹	--	Major	Selected Courses
Social Science.....	Major	--	Major
Social Studies.....	Major	Selected Courses	Major
Sociology.....	Major	--	Selected Courses
Spanish.....	Major	--	--
Special Education.....	Major	--	Selected Courses
Speech—Drama.....	Major	--	Major
Zoology.....	--	Major	--

¹ Graduate programs only.

Address All Inquiries to:
655 North Vermont Avenue
LOS ANGELES 79, CALIFORNIA

BULLETIN

of the

LOS ANGELES STATE COLLEGE OF APPLIED ARTS AND SCIENCES

VOLUME XI

JUNE, 1957

CIRCULAR OF INFORMATION AND ANNOUNCEMENT OF COURSES

FALL AND SPRING SEMESTERS

1957-58

Address All Inquiries to:
855 North Vermont Avenue
LOS ANGELES 29, CALIFORNIA

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Volume XI

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COLLEGE CALENDAR

FALL SEMESTER 1957-58

- August 16, 1957 Deadline for applications for all entering students not in attendance as matriculated students during spring, 1957. In order to assure admission, applicants should file at the earliest possible date with the Admissions Office. This office cannot guarantee the processing of applications and transcripts filed after this date. "
- September 16-19 Advisement and registration week. Students should consult the class schedule for details, dates, and deadlines regarding registration.
- September 23 Instruction begins.
- October 11 Deadline for applications for graduation in January, 1958.
- November 1 Last day to withdraw from class without risk of "F" grade.
- November 8 Deadline for filing for directed teaching for Spring, 1958.
- November 11 Veterans' Day (legal holiday). No classes in session.
- November 15 Optional examination to meet American government and history graduation requirements.
- November 28, 29, 30, incl. Thanksgiving holidays.
- December 2 Deadline for applications for graduation in June or summer, 1958.
- December 18, 1957—
January 1, 1958, incl. Christmas holidays.
- January 2, 1958 Classes resume.
- January 10 Last day to withdraw from classes.
- January 23-29, incl. Semester examinations.
- January 31 Fall semester ends.

SPRING SEMESTER 1958

- January 3, 1958 Deadline for applications for all entering students not in attendance as matriculated students during fall, 1957. In order to assure admission, applicants should file at the earliest possible date with the Admissions Office. This office cannot guarantee the processing of applications and transcripts filed after this date.
- February 3-6, incl. Advisement and registration week. Students should consult the class schedule for details, dates, and deadlines regarding registration.
- February 10 Instruction begins.

- February 12..... Lincoln's Birthday (legal holiday). No classes in session
- February 22..... Washington's Birthday (legal holiday). No classes in session.
- February 27..... Final deadline for applications for graduation in June or summer, 1958.
- March 21..... Last day to withdraw from class without risk of "F" grade.
- March 31-April 5..... Easter vacation.
- April 1..... Deadline for filing for directed teaching for fall, 1958.
- April 10..... Optional examination to meet American government and history graduation requirements.
- May 23..... Last day to withdraw from classes.
- May 30..... Memorial Day (legal holiday). No classes in session.
- June 9-13, incl..... Semester examinations.
- June 14..... Spring semester ends.

SPRING SEMESTER 1958

- January 7, 1958..... Deadline for applications for all coming students set in accordance with matriculated students during fall, 1957. In order to secure admission applications should be at the earliest possible date with the Admissions Office. This office cannot guarantee the processing of applications and transcripts filed after this date.
- January 7-8, incl..... Advancement and retention work. Professors should consult the class schedule for details, dates, and deadlines regarding registration.
- February 10..... Instruction begins.

ADMINISTRATION

CALIFORNIA STATE DEPARTMENT OF EDUCATION

- Roy E. Simpson Superintendent of Public Instruction and
State Director of Education
- J. Burton Vasche Associate Superintendent of Public Instruction;
Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

*Term expires
January 15th*

- William L. Blair, President, Star-News Building, 525 E. Colorado St.,
Pasadena 1 1960
- Byron H. Atkinson, University of California, Los Angeles 24 1957
- Mrs. Mable Kinney, 3726 Grayburn, Los Angeles 1958
- William M. Bucknam, Ceres 1959
- Thomas J. Mellon, 390 First St., San Francisco 5 1958
- James Mussatti, 1341 University Ave., Palo Alto 1958
- Mrs. Eva C. Noland, 211 Alameda Ave., Salinas 1960
- Max J. Osslo, 227 E St., San Diego 1 1957
- Wilber D. Simons, 2339 Cliff Dr., Redding 1960
- William G. Werner, Alameda Times Star, Alameda 1959
- Roy E. Simpson, Secretary and Executive Officer
- Mrs. Leora W. Keaster, Assistant to the Secretary

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:

*Term expires
September 30th*

- E. McClelland Stuart, Chairman, 6300 Hollywood Blvd, Hollywood 13 1959
- Leonard K. Firestone, 2525 Firestone Blvd., Los Angeles 54 1960
- Harry H. Hillman, 450 N. Grand Ave., Los Angeles 12 1957
- Mrs. Valley Knudsen, 3034 Edgewick Rd., Glendale 1958
- William G. Paul, 618 S. Spring St., Los Angeles 14 1957
- Mrs. Edith K. Stafford, 450 N. Grand Ave., Los Angeles 12 1959

COLLEGE ADMINISTRATION

PRESIDENT

President	Howard S. McDonald
Administrative Assistant to the President	William H. Bright
Dean of Building, Planning, and Construction	Asael C. Lambert
Coordinator of Business and Industrial Education	Homer D. Fetty

INSTRUCTION

Dean of Instruction—Ramona and Vermont Campuses	Albert D. Graves
Dean of Instruction—San Fernando Valley Campus	Delmar T. Oviatt
Acting Associate Dean of Instruction—Graduate Studies	James J. Stansell
Associate Dean of Instruction—Curriculum	William G. Leary
Assistant Dean of Instruction—Extended Day Program	Alfred E. Ehrhardt
Assistant Dean of Instruction	John Salmond

EDUCATIONAL SERVICES

Dean of Educational Services and Summer Session	John A. Morton
College Librarian	Beverly S. S. Caverhill
Audio-Visual Coordinator	Adam E. Diehl

STUDENT PERSONNEL SERVICES

Dean of Student Personnel	Morton J. Renshaw
Associate Dean of Student Personnel—Admissions and Records, San Fernando Valley Campus	Robert J. Williams
Associate Dean of Student Personnel—Admissions and Records	Ray F. Marsh
Associate Dean of Student Personnel—Counseling and Guidance	Eugenia C. Loder
Associate Dean of Student Personnel—Student Activities	Floyd R. Eastwood
Placement Officer	Fred C. Rhodes
Placement Supervisor—San Fernando Valley Campus	Carita Conner
Placement Supervisor	Arline Snyder
Placement Supervisor	Beverly Vaughn
Health Officer	Hyman Simmonds
Health Officer—San Fernando Valley Campus	DeWitt James Lowell
Veterans Coordinator	Edwin Johnson

BUSINESS MANAGEMENT

Business Manager	Warner K. Masters
Comptroller	Jack C. Heppe
Graduate Manager	William Lerz
Bookstore and Food Services	Robert Deem
Chief of Maintenance	Edward M. McBride

DIVISIONAL ORGANIZATION

RAMONA-VERMONT CAMPUSES

BUSINESS AND ECONOMICS DIVISION, Chairman		Floyd R. Simpson
Accounting, Department Head		Mary Murphy
Business Education and Office Administration, Adviser	Jessie C. Gustafson	
Economics and Statistics, Department Head	Leonard G. Mathy	
Finance and Law, Department Head	Frank J. Hill	
Management, Marketing, Labor Relations, Department Head	C. William Voris	
EDUCATION DIVISION, Chairman		Rudolph Sando
Elementary Education, Department Head	Dan Cappa	
Elementary Student Teaching, Coordinator	Ruth Samson	
Secondary Education, Department Head	John Dahl	
Secondary Student Teaching, Coordinators	Richard K. Sparks	
	Gerald Q. Shepherd	
School Administration and Supervision, Coordinator	Roy B. Tozier	
Special Education, Coordinator	Francis E. Lord	
FINE ARTS DIVISION, Chairman		William E. Daywalt
Art, Department Head	D. Keith Manion	
Music, Department Head	Keith D. Snyder	
HEALTH AND SAFETY, PHYSICAL EDUCATION, RECREATION, AND ATHLETICS DIVISION, Chairman		Ferron C. Losee
Athletics, Coordinator	Ferron C. Losee	
Health and Safety, Department Head	Saxon C. Elliot	
Physical Education, Men, Department Head		
Physical Education, Women, Department Head	Beverly Yerrington	
Recreation, Department Head	George W. Willott	
LANGUAGE ARTS DIVISION, Chairman		Marvin Laser
English, Department Head	Byron Guyer	
Foreign Language, Adviser	Florence M. Bonhard	
Journalism, Adviser	Paul T. Scott	
Speech and Drama, Department Head	James J. Stansell	
NATURAL SCIENCES DIVISION, Chairman		Stewart A. Johnston
Biological Science, Department Head	Dean A. Anderson	
Mathematics, Adviser	Samuel E. Urner	
Physical Science, Acting Department Head	Stewart A. Johnston	
SOCIAL SCIENCES DIVISION, Chairman		Edward T. Price, Jr.
Anthropology, Adviser	Dorothy L. Luhrs	
Geography, Acting Department Head	William G. Byron	
Government, Department Head	Thompson Black, Jr.	
History, Department Head	Robert C. Catren	
Philosophy, Adviser	James B. Wilson	
Psychology, Department Head	Howard E. Wilkening	
Social Studies, Adviser	T. A. Potter	
Sociology, Department Head	Karl M. Wallace	
TECHNICAL SCIENCES DIVISION, Chairman		Homer D. Fetty
Engineering, Acting Department Head	Leslie Cromwell	
Home Economics, Department Head	Bertha Gregory	
Industrial Arts, Department Head	Clifford G. Dobson	
Nursing, Department Head	Evelyn Fisher	
Police Administration, Department Head	G. Douglas Gourley	

SAN FERNANDO VALLEY CAMPUS

BUSINESS AND ECONOMICS DIVISION, Chairman	Donald L. Raun
EDUCATION DIVISION, Chairman	Rudolph Sando
Elementary Education, Department Head	
Elementary Student Teaching, Coordinator	Martha Brockman
Secondary Education, Department Head	Prudence Bostwick
Secondary Student Teaching, Coordinator	Max Klingbeil
School Administration and Supervision, Coordinator	Wayne F. McIntire
FINE ARTS DIVISION, Chairman	Don Sudlow
HEALTH AND SAFETY, PHYSICAL EDUCATION, RECREATION, AND ATHLETICS DIVISION, Chairman	Ferron C. Losee
LANGUAGE ARTS DIVISION, Chairman	Charles Kaplan
NATURAL SCIENCES DIVISION, Chairman	Franklin C. Potter
SOCIAL SCIENCES DIVISION, Chairman	Raymond A. Rydell

LIST OF FACULTY—1957-1958

RAMONA AND VERMONT CAMPUSES

- Howard S. McDonald (1949) President
 B.S., 1921, Utah State Agricultural College; M.A., 1925, Ed.D., 1949, University of California.
- Virginia Adamapolus (1956) Graduate Nurse
 R.N., 1948, Laconia Hospital, Laconia, New Hampshire.
- Georgia Sachs Adams (1956) Assistant Professor of Education
 A.B., 1933, M.S. in Ed., 1935, Ph.D., 1941, University of Southern California.
- Leonard L. Adams (1951) Professor of Physical Education
 B.S., 1942, Drake University.
- Gerhard Albersheim (1956) Assistant Professor of Music
 Ph.D., 1938, University of Vienna.
- Sidney P. Albert (1956) Assistant Professor of Philosophy
 A.B., 1934, Syracuse University; Ph.D., 1939, Yale University.
- Laird B. Allison (1956) Instructor in Business Administration
 B.S., 1956, University of Southern California.
- Roger M. Altenberg (1954) Assistant Professor of Drama
 A.B., 1945, University of Southern California; M.A., 1948, Western Reserve University.
- Robert Ames (1956) Assistant Professor of Education
 A.B., 1952, M.A., 1954, Ph.D., 1956, University of California.
- Daniel A. Amneus (1950) Assistant Professor of English
 A.B., 1941, University of California; M.A., 1947, Ph.D., 1953, University of Southern California.
- Dean A. Anderson (1950) Professor of Microbiology
 B.S., 1929, Brigham Young University; M.S., 1930, Ph.D., 1932, Iowa State College.
- Esther Andreas (1956) Assistant Professor of Music
 B.A., 1931, University of California.
- Anthony J. Andreoli (1955) Assistant Professor of Microbiology
 A.B., 1950, Ph.D., 1955, University of Southern California.
- Anthony J. Andres (1957) Assistant Professor of Engineering
 B.E. in E.E., 1950, University of Southern California.
- Mary M. Andrews (1956) Reference and Circulation Librarian
 B.A., 1939, University of California; M.S. in L.S., 1952, University of Southern California.
- Dorothy G. Armstrong (1951) Supervising Catalog Librarian
 B.A.L.S., 1941, University of Oklahoma.
- Walter M. Askin (1956) Assistant Professor of Art
 B.A., 1951, M.A., 1952, University of California.
- Thomas D. Bair (1956) Assistant Professor of Zoology
 A.B., 1946, DePauw University; M.A., 1947, Indiana University; Ph.D., 1951, University of Illinois.
- Bela O. Baker (1956) Assistant Professor of Psychology
 A.B., 1950, San Jose State College.
- Richard S. Balvin (1956) Assistant Professor of Psychology
 B.A., 1951, Los Angeles State College; Ph.D., 1956, University of California at Los Angeles.
- Mary A. Bany (1955) Assistant Professor of Education
 B.S., 1942, University of Oregon; M.A., 1953, Los Angeles State College.
- Francis H. Baxter (1950) Associate Professor of Music
 B.M., 1935, University of Wichita; M.M., 1940, Northwestern University.
- Walter S. Beaver (1956) Assistant Professor of Drama
 B.A., 1949, University of California at Santa Barbara; M.A., 1951, University of California at Los Angeles.

- Joseph R. Beckstead (1951)..... Associate Professor of Music
B.M., 1939, University of Wyoming; M.F.A., 1951, University of Utah.
- Eugene Benedetti (1950)..... 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 (1950)..... Associate Professor of Psychology
B.A., 1948, M.A., 1949, Ph.D., 1950, University of California at Los Angeles.
- Morris Better (1956)..... Assistant Professor of Education
B.S., 1946, M.Ed., 1948, Wayne University.
- David B. Bidna (1955)..... Assistant Professor of Education
A.B., 1942, University of California at Los Angeles; M.S., 1955, University of Southern California.
- David Bilovsky (1956)..... Assistant Professor of Education
B.A., 1941, University of California at Los Angeles; M.S., 1950, Ph.D., 1954, University of Southern California.
- Donald A. Bird (1956)..... Assistant Professor of English
B.A., 1940, M.A., 1941, Ph.D., 1950, University of Wisconsin.
- 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. (1950)..... Associate Professor of Government
B.S., 1933, United States Naval Academy; M.A., 1949, Ph.D., 1954, University of California at Los Angeles.
- Hugh S. Bonar, Jr. (1954)..... Assistant Professor of History
B.A., 1947, M.A., 1948, Ph.D., 1952, University of Wisconsin.
- Florence M. Bonhard (1949)..... Professor of Foreign Languages
B.A., 1921, Stanford University; M.A., 1927, Columbia University; Ph.D., 1946, University of Southern California.
- Aldo J. Bonura (1956)..... Assistant in Education
B.S., 1952, Loyola University.
- Irvin Borders (1951)..... Associate Professor of Journalism and
Business Administration
B.J., 1925, University of Missouri; M.A., 1952, Los Angeles State College.
- Evelyn I. Boylan (1956)..... Psychometrist
B.A., 1956, Los Angeles State College.
- William H. Bright (1950)..... Administrative Assistant to the President
B.A., 1949, Los Angeles State College; M.B.A., 1950, University of California at Los Angeles.
- Gerald W. Brown (1954)..... Associate Professor of Education
B.S., 1939, University of Nebraska; M.A., 1951, University of California, Ed.D., 1954, Stanford University.
- Sol S. Buchalter (1957)..... Assistant Professor of Business Administration
B.B.A., 1948, City College of New York; M.B.A., 1950, New York University.
- John C. Bushman (1953)..... Associate Professor of English
B.A., 1936, M.A., 1937, Ph.D., 1943, University of Illinois.
- H. Randall Butler (1954)..... Supervising Acquisitions Librarian
B.A., 1951, M.A., 1952, B.L.S., 1954, University of California.
- Charles N. Butt (1955)..... Assistant Professor of Education
B.S., 1928, M.A., 1936, University of Washington.
- William G. Byron (1954)..... Assistant Professor of Geography
A.B., 1948, M.A., 1951, University of California at Los Angeles; Ph.D., 1954, Syracuse University.
- Frances Cake (1950)..... Professor of Physical Education
B.A., 1930, University of Richmond; M.S., 1941, Wellesley College; Ph.D., 1949, University of Southern California.
- B. Wilmon Campbell (1956)..... Assistant Order Librarian
B.A., 1952, University of California at Los Angeles; B.L.S., 1954, University of California.

- Dan Cappa (1956) Professor of Education
B.A., 1937, Central Washington College of Education; M.A., 1945, University of Washington;
Ph.D., 1953, University of California.
- Robert S. Cathcart (1955) Assistant Professor of Speech
A.B., 1944, M.A., 1947, University of Redlands; Ph.D., 1953, Northwestern University.
- Robert C. Catren (1950) Professor of History
B.A., 1938, M.A., 1942, Ph.D., 1951, University of Southern California.
- Beverly S. S. Caverhill (1950) College Librarian
B.A., 1935, M.A., 1938, University of Oregon; Graduate Certificate in Librarianship, 1942,
University of California.
- Virginia P. Chamberlain (1953) Assistant Professor of Home Economics
B.A., 1929, University of Utah; M.A., 1932, Columbia University.
- Laura C. Chase (1955) Instructor in Speech
A.B., 1946, M.A., 1952, Occidental College.
- Milton C. Cheresh (1954) Assistant Professor of Education
B.A., 1948, M.A., 1949, Wayne University; Ph.D., 1956, Claremont Graduate School.
- Russell L. Chrysler (1950) Professor of Business Administration
B.B.A., 1932, M.B.A., 1937, University of Minnesota; Ph.D., 1953, Northwestern University.
- Stephen C. Clark (1955) Assistant Professor of Psychology
B.A., 1941, M.A., 1945, University of Washington; Ph.D., 1949, Yale University.
- Bernard Codner (1955) Assistant Professor of Business Administration
B.S.S., 1949, City College of New York; M.S., 1950, Columbia University.
- John P. Cornish (1954) Associate Professor of Art
B.F.A., 1939, M.A., 1940, Wayne University.
- Therese Coscarelli (1956) Assistant Education Librarian
B.A., 1952, Marymount College; M.S.L.S., 1953, University of Southern California.
- Persis H. Cowan (1956) Assistant Professor of Education
A.B., 1931, University of Redlands; M.A., 1941, University of Southern California; Ed.D.,
1956, Stanford University.
- John R. Cox (1955) Assistant Professor of Business Administration
B.S., 1947, Indiana University; M.B.A., 1948, University of Chicago; Certified Public Account-
ant, 1951, California.
- Leslie Cromwell (1953) Assistant Professor of Engineering
B.Sc.Tech., A.M.C.T., 1943, University of Manchester, England; M.S., 1951, University of
California at Los Angeles; Registered Professional Electrical Engineer, State of California.
- Morton J. Cronin (1955) Assistant Professor of English
B.A., 1944, M.A., 1945, Wayne University; Ph.D., 1953, University of Minnesota.
- Jack B. Cullen (1955) Assistant Professor of Speech
B.S., 1941, M.A., 1950, Ph.D., 1955, Ohio State University.
- John A. Dahl (1955) Associate Professor of Education
B.A., 1944, San Jose State College; M.A., 1950, Ed.D., 1952, Stanford University.
- J. T. Daniel (1954) Assistant Professor of Speech
B.A., 1942, Santa Barbara State College; M.A., 1946, Denver University.
- William E. Daywalt (1949) Professor of Art
B.E., 1940, M.A., 1944, Ed.D., 1949, University of California at Los Angeles.
- Louis C. DeArmond (1950) Associate Professor of History
B.A., 1940, M.A., 1947, Ph.D., 1950, University of California.
- Cameron Scott Deeds (1951) Assistant Professor of Physical Education
B.S., 1949, Brigham Young University; M.S., 1951, University of Southern California.
- Ted DeLay (1955) Assistant Professor of Drama
B.A., 1939, Carnegie Institute of Technology; M.A., 1946, Ph.D., 1951, University of Southern
California.
- Solomon Diamond (1949) Professor of Psychology
B.S., 1927, New York University; M.A., 1928, Ph.D., 1936, Columbia University.
- Francis E. Diaz (1956) Assistant Professor of Education
B.A., 1946, M.A., 1955, University of California at Los Angeles.

- Adam E. Diehl (1955) Professor of Education and
Coordinator of Audio-Visual Education
A.B., 1927, University of California at Los Angeles; M.B.A., 1930, University of Southern
California; Sc.D., 1950, Los Angeles College of Optometry.
- Harold T. Diehl (1950) Associate Professor of Sociology
B.A., 1933, M.A., 1935, University of Missouri; Ph.D., 1950, University of Southern California.
- Clifford Dobson (1956) Professor of Industrial Arts
B.S., 1946, M.Ed., 1950; Ed.D., 1956, University of California at Los Angeles.
- Robert Douglass (1951) Associate Professor of Speech
B.A., 1946, M.A., 1947, University of Redlands; Ph.D., 1951, University of Southern Cali-
fornia.
- Robert J. Downey (1956) Assistant Professor of Physical Education
B.A., 1949, Pepperdine College; M.S., 1950, Ph.D., 1956, University of Southern California.
- Floyd R. Eastwood (1948) Associate Dean of Student Personnel—
Student Activities
B.P.E., 1922, Springfield College; M.A., 1924, Clark University; Ph.D., 1936, New York
University.
- Louis W. Eggers, Jr. (1955) Instructor in Engineering
B.A., 1949, University of Virginia; M.S., 1954, University of Southern California.
- Perry L. Ehlig (1956) Assistant Professor of Geology
B.A., 1952, University of California at Los Angeles.
- Alfred Ehrhardt (1950) Assistant Dean of Instruction—Extended Day Program
B.A., 1930, College of the Holy Cross; M.S.Ed., 1948, Ed.D., 1950, University of Southern
California.
- Robert C. Eidt (1956) Assistant Professor of Geography
A.B., 1947, M.A., 1951, Ph.D., 1954, University of California at Los Angeles.
- Saxon C. Elliot (1950) Professor of Health and Safety Education
B.S., 1934, M.S., 1949, University of Southern California.
- J. Henry Ennen (1954) Assistant Professor of Physical Education
B.A., 1953, University of California at Los Angeles, M.A., 1955, Los Angeles State College.
- William R. Eshelman (1951) Assistant Librarian
B.A., 1943, Chapman College; M.A., 1950, University of California at Los Angeles; B.L.S.,
1951, University of California.
- Homer D. Fetty (1951) Coordinator of Business and Industrial Education
B.A., 1935, University of California at Los Angeles; M.S., 1939, Ed. D., 1951, University of
Southern California.
- Otto W. Fick (1956) Assistant Professor of English
B.A., 1942, Carleton College; M.A., 1947, Ph.D., 1954, University of Chicago.
- Seymour Fiekowsky (1955) Assistant Professor of Economics
B.A., 1942, Wayne University; M.A., 1948, Harvard University.
- Evelyn J. Fisher (1957) Professor of Nursing
B.S. in P.H.N., 1947, M.S. in N.Ed., 1950, Catholic University of America.
- Edward C. Fitzpatrick, Jr. (1956) Assistant Professor of Drama
B.A., 1936, University of Iowa; M.A., 1951, University of North Carolina.
- Edwin B. Flippo (1957) Associate Professor of Business Administration
B.S., 1947, Missouri University; M.B.A., 1948, Ph.D., 1953, Ohio State University.
- Louis F. Foley (1954) Associate Professor of Education
B.S., 1910, Ohio Wesleyan University.
- Robert J. Forbes (1956) Assistant Professor of Education
B.A., 1940, University of California at Los Angeles; M.A., 1948, Ph.D., 1955, Claremont
Graduate School.
- George N. Francis (1949) Associate Professor of Business Administration
B.A., 1941, B.S., 1942, M.S., M.Ed., 1953, University of Southern California; Certified Public
Accountant, 1948, California.
- James S. Fuller (1955) Assistant Professor of Fine Arts
A.B., 1951, M.A., 1953, University of California.
- Ruth M. Funderburk (1953) Serials Librarian
B.A., 1942, Manchester College; B.S.L.S., 1946, M.A., 1952, University of Illinois.

- Louis G. Gardemal (1950) Associate Professor of Drama
B.S.C., 1940, St. Edward's University; Ph.D., 1950, University of Iowa.
- Marjorie B. Gardner (1950) Supervising 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.
- R. Louis Gentilcore (1956) Assistant Professor of Geography
B.A., 1947, University of Toronto; Ph.D., 1950, University of Maryland.
- Robert W. Gillen (1955) Instructor in Speech
A.B., 1922, University of California at Los Angeles; A.M., 1954, University of Southern California.
- James L. Gilmore (1956) Assistant Professor of Education
B.A., 1948, Willamette University; M.S., 1949, University of Oregon; Ph.D., 1953, Stanford University.
- Ben C. Gmur (1956) Assistant Professor of Physical Education
B.A., 1950, University of California at Santa Barbara; M.A., 1951, Stanford University.
- Herbert Goldenberg (1955) Assistant Professor of Psychology
B.S., 1949, College of the City of New York; M.A., 1952, Ph.D., 1953, University of California at Los Angeles.
- G. Douglas Gourley (1957) Professor of Police Administration
A.B., 1935, M.S. in Public Administration, 1951, University of Southern California.
- Albert D. Graves (1951) Dean of Instruction
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.
- M. Louise Green (1955) Assistant Professor of Business Administration
A.B., 1923, M.A., 1938, University of Texas.
- Emmett A. Greenwalt (1949) Associate Professor of History
B.A., 1937, M.A., 1940, Ph.D., 1949, University of California at Los Angeles.
- Ann L. Greer (1950) Assistant Professor of English
B.A., 1927, Zion College; M.A., 1947, Ph.D., 1955, University of Southern California.
- Bertha A. Gregory (1956) Professor of Home Economics
B.S., 1925, University of Nevada; M.S., 1939, University of Minnesota.
- Wesley O. Griesel (1952) Associate Professor of Botany
A.B., 1934, M.A., 1937, Ph.D., 1952, University of California at Los Angeles.
- Celeste Griffith (1954) Assistant Professor of Music
B.S. in Music, 1943, Kansas State Teachers College; M.Mus., 1950, Northwestern University.
- Michael F. Grisafe (1956) Assistant Professor of Business Administration
B.S., 1934, Bowling Green College of Commerce; M.B.A., 1953, Northwestern University; Certified Public Accountant, 1943, Illinois.
- Edward O. Guerrant (1954) Associate Professor of History
A.B., 1933, Davidson College; M.A., 1939, Ph.D., 1942, University of Southern California.
- Elliott W. Guild (1949) Professor of Government
B.A., 1925, University of Wisconsin; M.A., 1931, Ph.D., 1935, Stanford University.
- Keith E. Gummere (1956) Assistant Professor of Industrial Arts
B.A., 1949, University of California at Santa Barbara.
- Ralph G. Gunter (1957) Assistant Professor of Psychology
B.A., University of London; graduate work in Europe and at Yale University and University of California at Los Angeles.
- Jessie C. Gustafson (1952) Associate Professor of Business Administration
B.A., 1924, M.S., 1940, University of Southern California; Ed.D., 1953, University of California at Los Angeles.
- Byron Guyer (1955) Associate Professor of English
B.A., 1938, San Diego State College; M.A., 1941, University of California; Ph.D., 1947, Stanford University.

- Harold W. Hackett, Jr. (1956) Assistant Reference Librarian
B.A., 1942, University of Minnesota; M.L.S., 1956, University of California.
- Robert O. Hahn (1956) Assistant Professor of Education
B.S., 1938, Hamilton College; M.A., 1947, Syracuse University.
- Harold D. Hall (1956) Assistant Professor of Education
B. of Ed., 1942, Eastern Illinois State College; M.A., 1949, Ed.D., 1956, University of Illinois.
- Lorentz I. Hansen (1949) Associate Professor of History
B.A., 1910, Central College; M.A., 1915, B.D., 1915, University of Chicago; Ph.D., 1934, Boston University.
- Sib O. Hansen (1948) Associate Professor of Business Administration
B.S., 1941, University of Oklahoma; M.B.A., 1953, University of Southern California; Certified Public Accountant, 1946, California.
- Rita M. Hanson (1949) Professor of Education
B.S., 1936, M.A., 1938, University of Iowa; Ed.D., 1949, Stanford University.
- John Haralson (1951) Assistant Professor of Psychology
B.A., 1940, University of Minnesota; Ph.D., 1951, Indiana University.
- David A. Harris (1956) Assistant Professor of Physiology
B.A., 1948, University of California; M.D., 1951, College of Medical Evangelists.
- James V. Harvey (1955) Assistant Professor of Botany and
Nature Study
A.B., 1923, Mississippi College; A.M., 1925, University of North Carolina; Ph.D., 1929, University of Wisconsin.
- Caro C. Hatcher (1955) Assistant Professor of Education
B.S., 1925, East Central Teachers College; M.S., 1933, Oklahoma A & M; Ed.D., 1950, University of Denver.
- Leonard F. Heath (1956) Assistant Professor of Art
B.F.A., 1950, M.F.A., 1951, University of Southern California.
- Leonard W. Hein (1956) Assistant Professor of Business Administration
B.S.C., 1952, Loyola University, Chicago; M.B.A., 1954, University of Chicago; Certified Public Accountant, 1955, Illinois.
- Burton Henry (1952) 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.
- Frank J. Hill (1949) Associate Professor of Business Administration
B.S., 1919, Earlham College; M.B.A., 1929, University of Southern California; Certified Public Accountant, 1942, New York, 1948, California.
- Anthony Hillbruner (1954) Associate Professor of Speech
B.S., 1949, M.A., 1950, Ph.D., 1953, Northwestern University.
- Virginia Hoffman (1952) Assistant Professor of Art
B.S., 1945, Miami University; M.A., 1949, Teachers College, Columbia University.
- Louis H. Hoover (1956) Assistant Professor of Education
B. of Ed., 1936, Winono State Teachers College; M.S., 1939, Kansas State Teachers College.
- Edythe E. 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, 1926.
- Mary W. Huber (1952) Professor of Speech
B.S., 1939; M.A., 1940, Ph.D., 1945, University of Wisconsin.
- Roland D. Hutchinson (1950) Assistant Professor of Psychology
B.A., 1948, M.A., 1951, University of California at Los Angeles.
- Earl D. Jacobs (1954) Assistant Professor of Physics
B.S., 1953, M.S., 1954, California Institute of Technology.
- Carter G. Jefferis (1950) Associate Professor of History
B.A., 1930, University of California at Los Angeles; Ph.D., 1943, University of California.

- Janet Jeffers (1955) Assistant Professor of Education
 B.A., 1944, M.A., 1947, University of Washington; Ph.D., 1955, Columbia University.
- Polly A. Jepson (1956) Assistant Professor of Education
 B.A., 1952, University of Washington.
- Cynthia S. Johnson (1954) Student Activities Coordinator
 B.A., 1954, Los Angeles State College.
- Dick A. Johnson (1956) Assistant Professor of Art
 B.A., 1950, M.A., 1951, University of California at Los Angeles.
- Edwin Johnson (1952) Veterans Coordinator
 B.A., 1950, University of Arizona; M.S., 1952, University of Southern California.
- Joan Johnson (1955) Assistant Professor of Physical Education
 B.S., 1951, University of Wisconsin; M.S.Ed., 1955, University of Southern California.
- Lois E. Johnson (1956) Assistant Professor of Physical Education
 A.B., 1944, Gustavus Adolphus College; M.Ed., 1950, University of Minnesota.
- Lois V. Johnson (1950) Associate Professor of Education
 B.E., 1938, Northern Illinois State Teachers College; M.A., 1939, Northwestern University;
 Ed.D., 1948, University of Illinois.
- Stewart A. Johnston (1953) Professor of Chemistry
 B.S. (Hons.), 1932, Teaching Certificate, 1934, M.S., 1937, University of Manitoba; Ph.D.,
 1940, Stanford University.
- Samuel H. Jones (1956) Assistant Professor of Education
 B.S., 1947, Ph.D., 1953, Ohio State University.
- Felix J. Jumonville, Jr. (1948) Associate Professor of Physical Education
 B.S., 1942, Louisiana State University; M.S., 1948, Ed.D., 1952, University of Southern
 California.
- Willis M. Kenealy (1952) Dean of Applied Arts and Sciences
 B.A., 1934, M.S. Ed., 1936, University of Southern California; LL.D., 1951, California College
 of Commerce.
- George M. Kibby (1956) Assistant Professor of Education
 A.B., 1936, M.A., 1944, University of California.
- Luther J. Kinnard (1956) Assistant Professor of Engineering
 B.S. in M.E., 1920, Purdue University; M.A., 1948, Ph.D., 1952, Claremont Graduate School.
- Aaron Kriegel (1956) Assistant Professor of Education
 B.A., 1947, University of Miami; M.A., 1953, Los Angeles State College.
- Robert D. Kully (1956) Assistant Professor of Speech
 B.A., 1950, Hastings College; M.A., 1954, University of Oregon; Ph.D., 1956, University of
 Illinois.
- John E. Lallas (1956) Assistant Professor of Education
 B.A., 1947, University of Washington; B.A. in Ed., Western Washington College of Educa-
 tion; Ed.D., 1956, Stanford University.
- Robert B. Lamb (1956) Assistant Professor of Geography
 B.A., 1949, M.A., 1950, University of California at Los Angeles.
- A. C. Lambert (1950) Dean of Building, Planning and Construction
 B.S., 1922, M.S., 1926, Brigham Young University; Ph.D., 1935, Stanford University.
- John LaMonica (1956) Assistant Professor of Industrial Arts
 B.A., 1950, University of Southern California.
- Roderick G. Langston (1952) Professor of Education
 B.A., 1938, San Diego State College; Ed.D., 1948, Stanford University.
- Marvin Laser (1956) Professor of English
 Ph.B., 1935, M.A., 1937, University of Chicago; Ph.D., 1949, Northwestern University.
- William G. Leary (1953) Associate Dean of Instruction—Curriculum
 A.B., 1936, M.A., 1938, University of California at Los Angeles; Ph.D., 1953, Stanford
 University.
- Vernon F. Leidig (1950) Associate Professor of Music
 B.A., 1943, University of California at Santa Barbara; M.S. in Ed., 1951, M.M., 1956, Univer-
 sity of Southern California.
- Paul H. Levenson (1956) Instructor in Business Administration
 B.B.A., 1955, University of Massachusetts.

- Robert T. Lewis (1952) Assistant Professor of Psychology
B.A., 1946, M.A., 1950, University of Southern California; Ph.D., 1952, University of Denver.
- David Lindsey (1956) Assistant Professor of History
B.A., 1936, Cornell University; M.A., 1938, Pennsylvania State University; Ph.D., 1950, University of Chicago.
- Harold E. Lionetti (1956) Assistant Professor of Foreign Languages
B.A., 1938, University of Akron; Ph.D., 1955, Northwestern University.
- Theodore W. Little (1950) Associate Professor of Art
B.A., 1939, M.A., 1940, Colorado College.
- Eugenia C. Loder (1951) Associate Dean of Student Personnel—
Counseling and Guidance
B.S., 1925, University of Washington; M.A., Ed.D., 1945, Stanford University.
- Helen C. Lodge (1955) Assistant Professor of Education
A.B., 1939, Hillsdale College; M.A., 1940, University of Michigan; Ed.D., 1953, University of California.
- Francis E. Lord (1953) Professor of Education
A.B., 1926, Michigan State Normal College; M.A., 1928, University of Chicago; Ph.D., 1936, University of Michigan.
- Ferron C. Losee (1949) Professor of Physical Education
B.S., 1935, Brigham Young University; M.S., 1938, Ed.D., 1951, University of Southern California.
- Donald C. Lowrie (1956) Assistant Professor of Zoology
B.Sc., 1932, Ph.D., 1942, University of Chicago.
- 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.
- Paul E. Lydolph (1952) Assistant Professor of Geography
B.A., 1948, State University of Iowa; M.S., 1951, Ph.D., 1955, University of Wisconsin.
- Donald Keith Manion (1950) Professor of Art
B.A.E., 1929, John Herron Art School; M.A., 1947, University of Oregon.
- Edward Marcum (1956) Assistant in Education
B.A., 1956, Los Angeles State College.
- Fred H. Marcus (1955) Assistant Professor of English
B.A., 1942, Brooklyn College; M.A., 1947, Ph.D., 1952, New York University.
- Ray F. Marsh (1955) Associate Dean of Student Personnel—
Admissions and Records
B.S., 1955, University of Southern California.
- Beth Mason (1955) Graduate Nurse
R.N., 1953, Dee Hospital, Ogden, Utah.
- Warner K. Masters (1949) Business Manager
B.S., 1949, University of Southern California.
- Leonard G. Mathy (1950) Professor of Economics
B.A., 1941, M.A., 1943, Ph.D., 1946, University of Illinois.
- Robert Mautner (1956) Catalog Librarian
B.A., 1949, B.L.S., 1952, University of California.
- William A. Mays (1956) Assistant Professor of Industrial Arts
B.S., 1939, Alabama Polytechnic Institute; M.S., 1950, Oregon State College; Ph.D., 1954, Ohio State University.
- Robert J. McNeill (1956) Assistant Professor of Government
B.A., 1943, University of Minnesota; M.A., 1953, University of California.
- Maxine L. Miller (1955) Assistant Professor of Home Economics
B.A., 1953, Washington State College.
- Arthur J. Misner (1955) Assistant Professor of Government
A.B., 1942, M.A., 1948, Ph.D., 1954, University of California.
- Marguerite Mochel (1949) Associate Professor of Physical Education
B.A., 1940, Hunter College; M.A., 1942, Columbia University; Ph.D., 1949, University of Southern California.

- Donald Arthur Moore (1956) Assistant Professor of Economics
B.A., 1941, Linfield College; M.A., 1942, Tufts College; Ph.D., 1956, Michigan State University.
- Ralph G. Moritz (1955) Supervising Catalog Librarian
B.S., 1938, Iowa State Teachers College; B.S. in L.S., 1940, University of Denver.
- Robert R. Morman (1956) Assistant Professor of Psychology
B.A., 1947, University of California at Los Angeles; M.A., 1949, Ph.D., 1955, University of Southern California.
- Donald G. Mortensen (1949) Professor of Education
B.A., 1937, Brigham Young University; Ed.D., 1950, University of Southern California.
- John A. Morton (1948) Dean of Educational Services and Summer Session
B.S., 1936, M.S., 1939, University of Oregon; Ed.D., 1945, Stanford University.
- Charles S. Mudd (1953) Assistant Professor of Speech
A.B., 1942, St. Louis University; M.A., 1948, Ph.D., 1953, Louisiana State University.
- Hugh E. Mullins (1950) Associate Professor of Music
B.M.Ed., 1945, Milikin Conservatory of Music; Ph.D., 1951, University of Southern California.
- Mary E. Murphy (1951) Associate 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, 1931, New York.
- 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
A.B., 1940, A.M., 1944, University of Notre Dame; Ph.D., 1949, University of California.
- Leslie W. Nelson (1950) Professor of Education
B.S., 1930, M.S., 1931, Utah State Agricultural College; Ph.D., 1944, Ohio State University.
- Melvin A. Newman (1956) Chief, Reader Services
A.B., 1939, Carleton College; B.S.L.S., 1948, University of Minnesota.
- Reed E. Nilsen (1955) Assistant Professor of Physical Education
B.S., 1943, M.S., 1953, Brigham Young University.
- Midori Nishi (1951) Assistant Professor of Geography
B.A., 1945, Nebraska Wesleyan University; M.A., 1946, Clark University; Ph.D., 1955, University of Washington.
- John C. Norby (1950) Associate Professor of Economics
B.A., 1936, Eastern Washington College of Education; B.S., 1939, University of Washington; M.A., 1948, Ph.D., 1953, University of Minnesota.
- Barbara M. Osborn (1956) Assistant Professor of Health and Safety Education
B.S., 1943, University of California; M.A., 1956, Los Angeles State College.
- Anne M. Palmer (1953) Assistant Professor of Education
B.Ed., 1942, University of California; M.Ed., 1951, University of California at Los Angeles.
- Mary Alice Peairs (1952) Education Librarian
B.E., 1939, National College of Education; B.S.L.S., 1942, George Peabody College for Teachers.
- Douglas B. Pearce (1955) Assistant Professor of Education
A.B., 1936, M.A., 1937, University of Southern California; Ph.D., 1955, Claremont Graduate School.
- Dorothy R. Peckham (1950) Professor of Education
B.A., 1932, M.A., 1933, Ed.D., 1948, University of Texas.
- Esther Penchef (1948) Associate Professor of Sociology
B.S., 1935, Bowling Green State University; M.A., 1940, University of Toledo; Ph.D., 1947, University of Southern California.
- Peter Victor Peterson, Jr. (1952) Associate Professor of Physical Sciences
and Conservation
A.B., 1947, San Jose State College; M.S., 1950, Stanford University; Ph.D., 1952, Cornell University.
- Raymond J. Pitts (1956) Assistant Professor of Education
A.B., 1932, Talladega College; A.M., 1938, Ph.D., 1956, University of Michigan.

- William G. Plumtree (1955) Assistant Professor of Engineering
B.S. in C.E., 1939, Wayne University; M.C.E., 1950, New York University; M.S. in App. Mech., 1955, Polytechnic Institute of Brooklyn; Registered Professional Civil Engineer, State of California.
- Morris Polan (1955) Supervising Reference Librarian
A.B., 1949, University of California at Los Angeles; M.S.L.S., 1951, University of Southern California.
- T. A. Potter (1955) Assistant Professor of Government
B.A., 1947, M.A., 1951, Ph.D., 1954, University of Minnesota.
- Eleonora Marie Preston (1951) Assistant Professor of Education
B.S. in Ed., 1935, Framingham Teachers College; M.Ed., 1949, Boston University; Ed.D. 1956, University of California at Los Angeles.
- Edward T. Price, Jr. (1951) Professor of Geography
B.S., 1937, California Institute of Technology; Ph.D., 1950, University of California.
- 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.
- Mary E. Pryor (1955) Labor Education Coordinator
A.B., 1940, Mt. St. Scholastica College.
- Bernard Rasof (1955) Assistant Professor of Mathematics
B.S., 1941, Illinois Institute of Technology; M.S., 1944, Ph.D., 1950, California Institute of Technology.
- John W. Rathbun (1956) Assistant Professor of English
Ph.B., 1951, M.A., 1952, Marquette University; Ph.D., 1956, University of Wisconsin.
- Warren E. Reeves (1950) Associate Professor of Physical Education
B.A., 1940, Hastings College; M.S. in Ed., 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.
- Fred G. Rhodes (1954) Placement Officer
B.A., 1937, M.A., 1948, University of California; Ed.D., 1951, Stanford University.
- James F. Richmond (1955) Assistant Professor of Geology
A.B., 1930, Whitman College; M.A., 1951, Claremont Graduate School; Ph.D., 1954, Stanford University.
- Roland Case Ross (1950) Professor of Nature Study
B.A., 1931, University of California at Los Angeles; M.S. '932, California Institute of Technology.
- Julian B. Roth (1956) Assistant Professor of Education
A.B., 1941, Reed College; M.A., 1950, San Francisco State College; Ed.D., 1954, Stanford University.
- Paul K. Rowan (1956) Assistant Professor of Sociology
B.A., 1949, M.A., 1950, University of California.
- Hudson Roysher (1954) Associate Professor of Art
B.S., 1934, Western Reserve University; M.F.A., 1938, University of Southern California.
- Joseph A. Sacher (1955) Assistant Professor of Botany
B.S., 1941, New York State College of Forestry; Ph.D., 1953, University of California.
- John Salmond, Jr. (1951) Assistant Dean of Instruction
A.B., 1949, University of Southern California.
- Ruth Dawson Samson (1954) Assistant Professor of Education
A.B., 1921, Oberlin College; M.A., 1926, University of Akron; Ed.D., 1955, University of Southern California.
- Clarence K. Sandelin (1949) Associate Professor of English
B.A., 1939, M.A., 1942, University of Iowa.
- Ake Sandler (1949) Associate Professor of Government
B.A., 1944, M.A., 1946, University of Southern California; Ph.D., 1950, University of California at Los Angeles.
- Rudolph Sando (1952) Professor of Education
B.A., 1930, Luther College; M.E. 1939, University of Montana; Ed.D., 1952, University of California.

- Dora Scheffsky (1953) _____ Assistant Professor of Education
B.S., 1927, Marysville State Teachers College; M.A., 1936, University of Missouri.
- Patty W. Schliestett (1956) _____ Assistant Professor of Music
B.S., 1947, West Chester State Teachers College; M.A., 1950, Occidental College.
- Joseph A. Schmidt (1954) _____ Circulation Librarian
B.A., 1950, M.A., 1951, Washington State College; M.S.L.S., 1954, University of Southern California.
- Philip J. Schriener (1956) _____ Student Activities Coordinator
B.A., 1955, Los Angeles State College.
- Delwyn G. Schubert (1950) _____ Associate Professor of Education
B.S., 1942, Oshkosh State Teachers College; M.S., 1947, University of Wisconsin; Ph.D., 1949, Northwestern University.
- Inez R. Schubert (1950) _____ Assistant Professor of Music
A.B., 1950, University of Southern California.
- Oscar C. Schwiering (1956) _____ Professor of Education
B.A., 1909, Iowa Wesleyan College; M.A., 1916, University of Wyoming; Ph.D., 1932, New York University.
- Louise Scott (1956) _____ Assistant Professor of Speech
B.L.I., 1933, Emerson College; Ed.M., 1939, Boston University.
- Paul T. Scott (1950) _____ Associate Professor of Journalism
B.A., 1930, Indiana University; M.A., 1938, University of Iowa.
- Frances F. Senescu (1955) _____ Assistant Professor of English
B.A., 1934, M.A., 1936, University of Oregon; Ph.D., 1948, University of Chicago.
- Gordon B. Severance (1956) _____ Assistant Professor of Business Administration
A.B., 1943, M.A., 1945, Stanford University; Ph.D., 1949, LL.B., 1946, University of Southern California; admitted to the California State Bar, 1947.
- Gerald Q. Shepherd (1950) _____ Associate Professor of Education
B.A., 1926, Simpson College; M.S., 1933, Iowa State College; Ed.D., 1953, University of Southern California.
- Frederick B. Shroyer (1950) _____ Associate Professor of English
B.A., 1948, M.A., 1949, Ph.D., 1954, University of Southern California.
- Ronald H. Silverman (1955) _____ Assistant Professor of Art
B.A., 1952, University of California at Los Angeles; M.A., 1955, Los Angeles State College.
- Hyman Simmonds (1950) _____ Health Officer
M.D., 1926, University of London.
- Floyd R. Simpson (1949) _____ Professor of Business and Economics
B.A., 1933, M.A., 1938, Ph.D., 1943, University of Minnesota.
- Bernard Sinsheimer (1956) _____ Assistant Reference Librarian
B.A., 1942, M.A., 1943, University of California at Los Angeles; B.S. in L.S., 1949, Columbia University.
- Katharine Sistrom (1956) _____ Assistant Professor of Education
B.S., 1932, University of California at Los Angeles; M.S. in Ed., 1955, University of Southern California.
- Carol J. Smallenburg (1950) _____ Assistant Professor of Education
B.A., 1935, Ed.D., 1948, Stanford University.
- Bernice B. Smith (1956) _____ Assistant Professor of Education
B.A., 1938, Santa Barbara College; M.A., 1954, Claremont Graduate School.
- Arline Snyder (1956) _____ Placement Supervisor
- Keith D. Snyder (1953) _____ Professor of Music
B.M.Ed., 1931, Nebraska Wesleyan University; M.Mus., 1937, Syracuse University; Ed.D., 1953, Teachers College, Columbia University.
- Richard K. Sparks (1955) _____ Assistant Professor of Education
B.A., 1939, University of Washington; B.A. in Ed., 1941, Central Washington College of Education; M.A., 1952, Ed.D., 1955, University of California.
- Florence Boyd Sperry (1956) _____ Assistant Professor of Education
M.S., 1942, University of Utah; M.S. in Ed., 1952, University of Southern California.
- James J. Stansell (1951) _____ 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.
- Harold Storch (1955) Assistant Professor of Engineering
B.E.E., 1944, New York City College, School of Technology; M.S., 1949, Stevens Institute of Technology; Registered Professional Electrical Engineer, States of California and New York.
- Richard M. Straw (1956) Assistant Professor of Botany
B.A., 1949, University of Minnesota; Ph.D., 1955, Claremont Graduate School.
- Kenneth S. Strobel (1955) Assistant Professor of Education
B.S., 1932, St. Lawrence University.
- Vito G. Susca (1956) Assistant Professor of Music
B. of M., 1948, University of Michigan; M.M., 1956, University of Southern California.
- Kenneth N. Sweetnam (1957) Assistant Professor of Industrial Arts
B.A., 1951, University of California at Santa Barbara.
- Lydia M. Takeshita (1955) Assistant Professor of Art
B.A., 1950, M.A., 1952, University of California at Los Angeles.
- Elizabeth Tamblin (1955) Assistant Professor of Microbiology
B.S., 1948, Kansas State College; M.S., 1950, University of Southern California.
- Alice Thompson (1952) Assistant Professor of Psychology
A.B., 1932, Northwestern Nazarene College; M.A., 1939, University of California at Los Angeles.
- Albert A. Tillman (1956) Assistant Professor of Physical Education
B.A., 1950, University of Southern California.
- Maurine Timmerman (1950) Associate Professor of Music
B.S., 1934, University of Minnesota; M.S., 1941, University of Idaho.
- Iris Marie Timson (1956) Assistant Professor of Education
B.F.A. in Ed., 1935, Nebraska State Teachers College; M.Ed., 1951, University of California at Los Angeles; Ed.D., 1957, Stanford University.
- John O. Tipple (1956) Assistant Professor of History
B.A., 1938, University of Colorado; M.A., 1952, Stanford University.
- Fred M. Tonge (1949) Professor of Education
B.A., 1928, San Jose State College; M.A., 1929, Ed.D., 1945, Stanford University.
- Roy B. Tozier (1952) Professor of Education
B.A., 1919, Park College; M.A., 1926, University of Illinois; Ph.D., 1932, State University of Iowa.
- Evelyn Troup (1953) Professor of Psychology
B.A., 1928, M.A., 1930, University of Buffalo; Ph.D., 1938, Columbia University.
- Alvin E. Tuohino (1956) Assistant Professor of Business Administration
B.A., 1935, Augustana College; M.S., 1940, University of Denver; Certified Public Accountant, California.
- Samuel E. Urner (1950) Professor of Mathematics
Ph.B., 1906, Baker University; Ph.D., 1911, Harvard University.
- Lloyd S. Van Winkle (1951) Associate Professor of Education
B.Ed., 1933, Eastern Illinois State College; A.M., 1941, University of Illinois; Ed.D., 1949, Colorado State College of Education.
- C. William Voris (1952) Associate Professor of Business Administration
B.S., 1947, M.B.A., 1948, University of Southern California; Ph.D., 1951, Ohio State University.
- Marian E. Wagstaff (1952) Professor of Education
B.A., 1933, San Francisco State College; M.A., 1944, 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.
- Edwin Wandt (1954) Assistant Professor of Education
A.B., 1946, M.Ed., 1948, Ed.D., 1951, University of California at Los Angeles.
- Charles K. A. Wang (1954) Assistant Professor of Psychology
B.A., 1924, Furman University; M.A., 1926, Ph.D., 1931, University of Chicago.

- Tully E. Warren (1950) Assistant Professor of Government
B.A., 1938, M.A., 1939, Ph.D., 1950, Stanford University.
- John C. Wecker (1956) Reference Librarian
A.B., 1947, M.A., 1948, M.S.L.S., 1951, University of Southern California.
- Paul Wells (1956) Assistant Professor of Economics
B.A., 1949, University of Washington.
- James P. Welsh (1953) Assistant Professor of Zoology
B.A., 1947, Ph.D., 1952, Stanford University.
- Richard J. Whiting (1956) Assistant Professor of Business Administration
B.S. in E.E., 1946; B.S. in I.E., 1947, University of Washington; M.B.A., 1949, Stanford University.
- 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.
- Donald G. Williams (1956) Assistant Catalog Librarian
B.A., 1954, San Francisco State College; B.L.S., 1955, University of California.
- Frank W. Williams (1956) Assistant Professor of Art
B.A., 1948, Colorado State College of Education; M.A., 1956, Denver University.
- Wirt A. Williams, Jr. (1953) Associate Professor of English
B.S., 1940, Delta State College; M.A., 1941, Louisiana State University; Ph.D., 1953, State University of Iowa.
- James C. Williamson (1950) Assistant Professor of Education
Ed.B., 1926, University of California at Los Angeles; M.S., 1936, University of Pennsylvania.
- George W. Willott (1950) Associate Professor of Recreation Education
B.S., 1938, M.S., 1939, University of Idaho.
- Eleanore C. Wilson (1956) Assistant Professor of Education
B.A., 1929, University of California at Los Angeles.
- James B. Wilson (1948) Professor of Philosophy
B.A., 1936, Maryville College; B.D., 1939, Garrett Biblical Institute; M.A., 1942, Ph.D., 1944, University of Southern California.
- Mabel M. Wilson (1950) Assistant Professor of Education
B.A., 1919, Columbia College, Chicago; B.S., 1936, M.S., 1951, Ed.M., 1954, University of Southern California.
- Elvira Catherine Wong (1956) Catalog Librarian
B.A., 1943, Fresno State College; Graduate Certificate in Librarianship, 1945, University of California.
- Emil Wroblicky (1956) Assistant Professor of Physical Education
B.S., 1950, Drake University; M.A., 1951, University of Notre Dame.
- Beverly Yerrington (1953) Assistant Professor of Physical Education
B.S., 1939, M.S., 1941, University of Utah.
- Melvin L. Zack (1954) Assistant Professor of Music
B.M., 1943, B.M.E., 1948, M.M.E., 1949, Ph.D., 1953, University of Kansas; additional study at Julliard Institute of Musical Art.
- Gabriel A. Zimmerman (1955) Assistant Professor of Philosophy
B.S., 1947, M.A., 1949, St. Louis University; Ph.D., 1955, University of Virginia.
- Beverly Vaughn Zolin (1956) Placement Supervisor
B.A., 1955, University of California at Los Angeles.

EMERITUS

- George Duncan (1950-1955) Associate Professor of Engineering
- Chester R. Milham (1948-1954) Vice President
- G. Millage Montgomery (1955-1956) Associate Professor of Education
- Claude E. Nihart (1954-1956) Professor of Industrial Arts

LIST OF FACULTY—1957-1958

SAN FERNANDO VALLEY CAMPUS

- Walter L. Blackledge (1951) Assistant Professor of Business Administration
 B.S., 1943, St. Ambrose College; M.A., 1946, J.D., 1947, Ph.D., 1951, University of Iowa;
 member of the Illinois, Iowa State Bar, and Federal Bars.
- Prudence Bostwick (1956) Professor of Education
 A.B., 1919, Wellesley College; M.A., 1931, University of Denver; Ph.D., 1940, Ohio State
 University.
- Elizabeth H. Brady (1955) Assistant Professor of Education
 B.A., 1941, Carleton College; M.A., 1945, University of Chicago.
- Martha L. Brockman (1951) Associate Professor of Education
 B.A., 1938, Eastern Washington College of Education; M.A., 1944, Ed.D., 1953, Teachers
 College, Columbia University.
- Robert A. Canny (1954) Supervising Reference Librarian
 B.A., 1937, Colorado State College of Education; B.S. in L.S., 1938, University of Denver.
- Carita K. Conner (1952) Placement Supervisor
 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.
- Maurice Dance (1950) Associate Professor of Economics
 B.A., 1947, University of Washington; M.S., 1949, Ph.D., 1953, University of Wisconsin.
- Isabel W. Dible (1953) Assistant Professor of Education
 A.B., 1932, San Jose State College; M.A., 1953, University of California at Los Angeles.
- Robert W. Durrenberger (1950) Associate Professor of Geography
 B.S., 1940, Moorhead State Teachers College; B.S., 1941, California Institute of Technology;
 M.S., 1949, University of Wisconsin; Ph.D., 1955, University of California at Los Angeles.
- Dorothea Extence (1956) Assistant Professor of Business Administration
 B.A., 1954, M.A., 1956, Los Angeles State College.
- Jenniellen W. Ferguson (1956) Assistant Professor of Government
 A.B., 1948, Ph.D., 1956, University of California at Los Angeles.
- Byrne C. Fernelius (1956) Assistant Professor of Physical Education
 B.S., 1941, M.S., 1947, Utah State Agricultural College.
- Anita H. Fisher (1956) Assistant Professor of Physical Education
 B.A., 1954, M.A., 1956, Los Angeles State College.
- Howard A. Fleming (1949) Associate Professor of History
 B.A., 1947, Ph.D., 1952, University of California at Los Angeles.
- Joseph B. Ford (1950) Associate 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.
- John C. Gowan (1953) Associate Professor of Education
 A.B., 1933, Ed.M., 1935, Harvard University; Ed.D., 1952, University of California at Los
 Angeles.
- Norman B. Henderson (1956) Associate Professor of Education
 A.B., 1938, Fresno State College; M.A., 1948, Occidental College; Ph.D., 1953, University of
 California at Los Angeles.
- Elizabeth B. Hone (1950) Assistant Professor of Education
 B.A., 1931, Wellesley College; M.A., 1936, Columbia University.
- Charles Kaplan (1954) Associate Professor of English
 A.B., 1940, University of Chicago; M.A., 1942, Ph.D., 1952, Northwestern University.
- William J. Kasza (1954) Assistant Professor of Art
 B.A., 1950, University of California at Los Angeles; M.A., 1954, Los Angeles State College.

- 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.
- Phyllis E. Kennedy (1956) Psychometrist
 B.A., 1950, M.S. in Ed., 1956, University of Southern California.
- Max Klingbeil (1955) Assistant Professor of Education
 B.A., 1939, M.A., 1947, Ph.D., 1949, University of Washington.
- Reuben H. Krolick (1956) Assistant Professor of Business Administration
 B.S., 1944, M.A., 1948, University of Chicago.
- John R. Kudrna (1950) Associate Professor of Education
 B.S., 1940, Chadron State Teachers College; M.A., 1943, Ed.D., 1954, Colorado State College of Education.
- Robert S. Lawrence (1956) Coordinator of Student Activities
 B.A., 1955, Los Angeles State College.
- George C. Lorbeer (1950) Associate Professor of Education
 B.A., 1943, San Francisco State College; M.A., 1948, Stanford University; Ed.M., 1950, Ed.D., 1953, University of Illinois.
- Ferron C. Losce (1949) Professor of Physical Education
 B.S., 1935, Brigham Young University; M.S., 1938, Ed.D., 1951, University of Southern California.
- DeWitt James Lowell (1956) Health Officer
 Ph.D., 1949, University of Chicago; M.D., 1954, University of Illinois.
- Rodney F. Luther (1950) Professor of Business Administration
 B.A., 1946, M.B.A., 1947, Ph.D., 1949, University of Minnesota.
- Mitchell Marcus (1953) Associate Professor of English
 B.A., 1940, M.A., 1941, State University of Iowa; Ph.D., 1950, Stanford University.
- Wayne F. McIntire (1950) Professor of Education
 B.A., 1936, M.A., 1938, Brigham Young University; Ph.D., 1947, University of California.
- Dorothy O'Brien (1951) Assistant Professor of Physical Education
 B.S., 1927, University of Washington; M.Ed., 1941, Montana State University.
- Delmar T. Oviatt (1953) Dean of Instruction
 B.A., 1940, University of Alberta; Ed.D., 1949, Stanford University.
- Seymour S. Phillips (1956) Assistant Professor of Business Administration
 B.S., 1943, University of Kentucky; M.B.A., 1949, University of California at Los Angeles.
- Franklin C. Potter (1956) Professor of Geology
 Ph.B., 1926, University of Wisconsin; M.S., 1928, Northwestern University; Ph.D., 1933, University of Chicago.
- Donald L. Raun (1953) Associate Professor of Business Administration
 A.B., 1947, M.B.A., 1949, Stanford University; Certified Public Accountant, 1953, Washington.
- John J. Reardon (1954) Assistant Professor of Zoology
 B.S., 1948, M.A., 1949, University of Michigan.
- James B. Reeder (1955) Assistant Professor of Physical Education
 B.S., 1948, Ohio State University; M.S., 1953, Indiana University.
- Mary L. Reilly (1955) Assistant Professor of Music
 B.S. in Music Ed., 1944, St. Mary College; M.S. in Ed., 1956, Immaculate Heart College.
- Edna Robinson (1956) Graduate Nurse
 R.N., 1939, Mercy Hospital, Iowa City, Iowa.
- Ruth L. Roche (1955) Assistant Professor of Education
 A.B., 1934, University of Colorado; M.A., 1940, Colorado State College of Education.
- Gladys J. Rohde (1951) Circulation Librarian
 B.A., 1940, University of Illinois; M.S.L.S., 1951, 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.
- Rudolph Sando (1952) Professor of Education
 B.A., 1930, Luther College; M.E., 1939, University of Montana; Ed.D., 1952, University of California.

- William E. Schlosser (1955) Assistant Professor of Drama
B.Ed., 1946, Chicago Teachers College; M.S., 1948, Northwestern University; Ed.D., 1955, University of Oregon.
- John C. Schwartz, Jr. (1950) Professor of Education
B.A., 1933, M.A., 1946, Ed.D., 1950, University of California at Los Angeles.
- Frances H. Sherrill (1956) Assistant Professor of Music
B.A., 1950, Occidental College.
- Malcolm O. Sillars (1954) Assistant Professor of Speech
B.A., 1948, M.A., 1949, University of Redlands; Ph.D., 1955, University of Iowa.
- James S. Smith (1954) Associate Professor of English
B.A., 1934, M.A., 1936, Ph.D., 1952, University of California.
- Una Smurthwaite (1956) Assistant Professor of Education
B.S., 1941, University of Utah; M.A., 1944, Columbia University.
- Merwin E. Soyster (1956) Assistant Professor of Education
B.A., 1954, Los Angeles State College.
- W. Ardell Stelck (1956) Assistant Professor of History
A.B., 1949, Drake University; M.A., 1950, Ph.D., 1956, George Washington University.
- Don Sudlow (1952) Associate Professor of Art
A.B., 1947, M.S., 1951, University of Southern California.
- Thomas J. Tramel (1950) Associate Professor of Art
B.A., 1942, Colorado State College of Education; M.S., 1951, University of Southern California.
- Henry Van Slooten (1954) Assistant Professor of English
A.B., 1940, M.A., 1948, Ph.D., 1957, University of Southern California.
- Bernard E. Warner (1952) Associate Professor of Physical Education
B.S. in Ed., 1936, Bowling Green State University; M.A., 1942, Ohio State University; Ed.D., 1954, University of Southern California.
- Nora Weckler (1955) Assistant Professor of Psychology
B.A., 1937, M.A., 1938, Ph.D., 1941, University of Toronto.
- Robert W. Wienpahl (1956) Assistant Reference and Catalog Librarian
B.A., 1949, M.A., 1951, Ph.D., 1953, University of California at Los Angeles; M.S.L.S., 1955, University of Southern California, Library School.
- Robert J. Williams (1950) Associate Dean of Student Personnel-
Admissions and Records
B.A., 1947, San Diego State College.
- Warren C. Willig (1956) Assistant Professor of Mathematics
A.B., 1947, Yale University; M.A., 1948, Columbia University.
- Clifton C. Winn (1950) Professor of Education
B.A., 1927, Pomona College; M.A., 1929, Ph.D., 1931, Harvard University.
- Albert R. Wise (1950) Associate Professor of Physical Education
B.S., 1947, M.A., 1948, Ohio State University; Ed.D., 1952, University of Southern California.
- Naathan Z. Wolfson (1956) Reference Librarian
B.A., 1940, University of Omaha; B.L.S., 1953, M.A., 1953, University of California.

LOS ANGELES STATE COLLEGE ADVISORY COMMITTEES

FINANCE ADVISORY COMMITTEE

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Mr. Dan L. Duggan, Partner, Coldwell, Banker and Company.
Mr. Earl W. Huntley, Partner, Merrill, Lynch, Pierce, Fenner & Beane.
Mr. Chester C. Lincoln, Vice President, Security-First National Bank of Los Angeles.
Mr. Foster Rhodes, Partner, Bailey & Rhodes.

HOME ECONOMICS IN BUSINESS ADVISORY COMMITTEE

- Mrs. Gertrude E. Austin, Director, Consumer Service Division, Sunkist Growers.
Miss Mercedes A. Bates, Advertising Food Consultant.
Mrs. Marion Burbank, Chairman, Home Economics Department, Los Angeles City College.
Miss Sara Cino, Swift & Company.
Mrs. Evelyn Conant, Home Economics Coordinator, Southern California Edison Company.
Miss Corris H. Guy, Director of Consumer Service, Helms Bakery.
Mrs. Mabel Harris, Home Economist, California Dairy Industry Advisory Board.
Mrs. G. A. Hoke, Director of Home Economics, *Los Angeles Times*.
Miss Mary Jane Isenburg, Home Service Director, General Electric Appliance Company.
Miss Gladys B. Price, Home Service Supervisor, Southern California Gas Company.
Miss Katherine L. Rathbone, Home Service Supervisor, Southern Counties Gas Company.
Mrs. Jean Granger Williams, Senior Home Economist, Los Angeles Department of Water and Power.
Mrs. Adene Wilson, Home Economics Editor, *Los Angeles Examiner*.

INDUSTRIAL ARTS ADVISORY COMMITTEE

- Mr. Fred Baer, Supervisor of Industrial Arts, Junior High School Division, Los Angeles City Schools.
Dr. Melvin L. Barlow, Supervisor, Trade and Industrial Teacher Training, University of California.
Mr. Horace W. Bates, Assistant Director, Instruction Department, El Camino College.
Dr. Howard A. Campion, Associate Superintendent, Los Angeles City Board of Education.
Mr. Gordon Funk, Supervisor, Industrial Arts, Los Angeles City Board of Education.
Mr. J. Lyman Goldsmith, Supervisor, Agricultural, Vocational, Industrial Arts Education, Los Angeles City Board of Education.
Dr. Milo P. Johnson, Supervisor, Vocational Education and Industrial Arts, Santa Monica City Schools.
Dr. John Lombardi, Director, Los Angeles City College.
Mr. Howard E. Marvin, Director of Vocational Education, Pasadena City Schools.
Mr. Claude E. Nihart, Professor of Industrial Education and former Head, Los Angeles State College Industrial Arts Department. (Retired)
Mr. Lee W. Ralston, Director, Division of Trade and Industrial Education, Los Angeles County Schools.

- Mr. Mack Stoker, Regional Supervisor, Trade and Industrial Education, California State Department of Education.
- Mr. David O. Taxis, Consultant in Industrial Arts Education, Los Angeles County Schools.
- Mr. Wayne A. Wonacott, Industrial Arts Supervisor, Los Angeles City Board of Education.
- Mr. F. Parker Wilber, Director, Los Angeles Trade-Technical Junior College.
- Mr. Robert L. Woodward, Consultant in Industrial Arts Education, California State Department of Education.

INDUSTRIAL PLUMBING ENGINEERING ADVISORY COMMITTEE

- Mr. Rod Antrim, Chairman, American Society of Sanitary Engineers.
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- Mr. Ray Brown, Field Representative, Copper and Brass Research Association.
- Mr. George L. Campbell, Plumbers' Local No. 78.
- Mr. William Deel, Chairman, Education Committee Associated Plumbing.
- Mr. C. L. Freeman, Associated Plumbing Contractors of Los Angeles.
- Mr. James J. Harmon, Chief Plumbing Inspector of San Francisco.
- Mr. G. E. Morris, Superintendent and Manager, Los Angeles Department of Building and Safety.
- Mr. Jack F. Parker, Chairman, Western Plumbing Officials Association, Educational Program.
- Mr. Hubert Reeves, General Manager, John B. Reeves and Son, Western Plumbing and Heating Journal.
- Mr. H. Roman, Chief of Plumbing Division, Los Angeles Department of Building and Safety.
- Mr. Fred Schmitz, State President, Associated Plumbing Contractors.
- Mr. Lee Scofield, Supervisor of Electric Water Heater Sales, Los Angeles Department of Water and Power.
- Mr. Charles L. Senn, Engineer-Director, Bureau of Sanitation, Los Angeles City Health Department.
- Mr. P. R. Shea, General Sales Manager, Southern California Gas Company.
- Mr. Stephen I. Smoot, President, Western Plumbing Officials Association.
- Dr. George M. Uhl, M.D., Los Angeles City Health Officer.
- Mr. Archie Virtue, General Organizer of the United Association.
- Mr. Robert A. Wood, Supervising Mechanical Engineer, County of Los Angeles.

JOURNALISM ADVISORY COMMITTEE

- Mr. Paul Calvert, *Los Angeles Times*.
- Mr. Richard Hoffman, Los Angeles City College.
- Mr. Charles Horn, Manager, Classified Advertising Department, *Los Angeles Examiner*.
- Mr. Frank Howatt, Editor, *Western Grower and Shipper*.
- Mr. David Lyon, Editor, *Trailer Life*.
- Mr. Harlan Palmer, Jr., Publisher, *Hollywood Citizen-News*.
- Mr. Carroll W. Parcher, Publisher, *Glendale News-Press*.

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- Mr. Karl Kunze, Assistant Personnel Manager, Lockheed Aircraft Corporation.
- Mr. H. Woodrow Linton, Chief Methods Engineer, North American Aviation.
- Mr. Robert O'Donnell, Personnel Director, Pacific Press Company.
- Mr. R. S. Snoyer, Manager, Service Contracts Department, Hughes Aircraft Company.

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 Mr. Cyril C. Nigg, President, Bell Brand Foods.
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 Mr. E. McClelland Stuart, General Manager, Broadway Hollywood.
 Mr. Tony Whan, Senior Vice President, Pacific Outdoor Advertising Company.

MEDICAL TECHNOLOGY ADVISORY COMMITTEE

- Mrs. Muriel Chestnut, Head Technician, Laboratory Training School, Los Angeles County General Hospital.
 Miss Isabel Holbrook, Assistant Microbiologist, California State Department of Public Health.
 Dr. Carl A. Lawrence, Director, Los Angeles County Health Department Laboratory.
 Dr. Charles F. Pait, Director, Los Angeles City Health Department Laboratory.
 Dr. Arnold G. Ware, Head Biochemist, Los Angeles County General Hospital, Professor of Biochemistry, University of Southern California Medical School.

NURSING ADVISORY COMMITTEE

- Miss Maxine Attebery, Dean, School of Nursing, College of Medical Evangelists.
 Mrs. Constance Baker, Director, California Hospital School of Nursing.
 Miss Mildred Brown, Director, School of Nursing, Los Angeles County General Hospital.
 Miss Nina Bethea Craft, Director, Nursing Education and Nursing Services, Los Angeles County General Hospital.
 Mrs. Paul Eilers, Former Director, Bishop Johnson College of Nursing.
 Miss Ruth Esther Feider, Executive Secretary, State Board of Nurse Examiners.
 Mrs. Lulu K. Wolf Hassenplug, Dean, School of Nursing, U.C.L.A.
 Miss Velma Kish, Presbyterian Hospital, Los Angeles.
 Miss Eunice Lamona, Chief Nurse, Los Angeles City Board of Education.
 Miss Mary McQuillen, Supervisor, Los Angeles County Health Department.
 Miss Elizabeth Miller, School of Nursing, St. Vincent's College of Nursing.
 Mrs. Kathryn J. Nelson, Former Dean, School of Nursing, College of Medical Evangelists.
 Miss Marjorie Quigley, Executive Secretary, District No. 5, California State Nurses Association.
 Miss Dolores Schemmel, Director of Nursing, Huntington Memorial Hospital.
 Mrs. Jean Smith, Director, Bishop Johnson College of Nursing.
 Mrs. Eva A. Stockonis, Director, School of Nursing, Queen of the Angels Hospital.
 Miss Lillian Vosloh, Director, School of Nursing, Pasadena City College.

POLICE SCIENCE AND ADMINISTRATION ADVISORY COMMITTEE

- The Honorable Eugene W. Biscailuz, Sheriff, Los Angeles, California.
 Mr. C. R. Eggers, Chief of Police, Glendale, California.
 Mr. Clarence H. Morris, Chief of Police, Pasadena, California.
 Mr. William H. Parker, Chief of Police, Los Angeles, California.
 Mr. Richard Simon, Deputy Chief of Police, Los Angeles, California.
 Mr. William E. South, Chief Special Agent, Southern California Edison Company, Los Angeles.

PRINTING MANAGEMENT ADVISORY COMMITTEE

- Mr. Dwight Adams, Assistant Dean, Los Angeles Trade Technical Junior College
- Mr. Richard Bovard, General Manager, Pacific Neo-Gravure Company; Member Printing Industry Association Training Committee.
- Mr. Richard J. Hoffman, Chairman of Journalism and Graphic Arts Department, Los Angeles City College.
- Mr. Gordon Holmquist, Vice President, Cole-Holmquist, Inc.; Chairman, Printing Industry Association Training Committee.
- Mr. Ewart Johnson, Coordinator of Printing Department, Los Angeles Technical Junior College.

RECREATION EDUCATION ADVISORY COMMITTEE

- Mr. Ferdinand Bahr, Recreation Specialist, State of California Recreation Commission.
- Mr. Carson Conrad, Chief, Bureau of Health Education, Physical Education, and Recreation, State of California Department of Education.
- Miss Eldora DeMots, Regional Director, Region V. Camp Fire Girls, Incorporated.
- Mr. Aaron Fahringer, Regional Director, Southern Pacific Region, Boys Club of America.
- Mr. William Frederickson, Superintendent of Recreation and Parks Department, City of Los Angeles.
- Mr. Norman Johnson, Superintendent of Recreation and Parks, County of Los Angeles.
- Mr. K. L. Kellough, Recreation Director, North American Airlines, Inc.
- Dr. John Merkle, Supervisor, Youth Services Section, Los Angeles City Schools.
- Mr. Henry W. Waltz, Executive Secretary, Metropolitan Recreation and Youth Services Council.

GENERAL INFORMATION

LOCATIONS OF THE COLLEGE

Los Angeles State College, with an enrollment of approximately 10,000 students, occupies three different campuses all within the city limits of Los Angeles. The "Ramona Campus" is situated in East Los Angeles just off the San Bernardino Freeway at Eastern Avenue. The "Vermont Campus" is at 855 North Vermont Avenue near the geographical center of Metropolitan Los Angeles. The "Valley Campus" is situated at Nordhoff and Zelzah Avenues, Northridge, in the San Fernando Valley.

Students are referred to the first two pages of this Bulletin for information concerning the distribution of the college programs among the three campuses.

ORGANIZATION OF THE COLLEGE

The Los Angeles State College was created by legislative act in 1947. A new legislative act reconstituted the college in 1949, naming it the Los Angeles State College of Applied Arts and Sciences.

On the Ramona and Vermont campuses the college offers upper division and graduate programs only. Five of the college's eight instructional divisions (Business and Economics, Education, Fine Arts, Language Arts, and Social Sciences) are on the new Ramona Campus. Three of the eight divisions (Natural Sciences, Physical Education, and Technical Sciences, as well as the graduate programs in Education) are on the Vermont Campus, pending their ultimate removal to the Ramona Campus when new buildings to accommodate them have been completed, probably in the fall of 1958.

Units representing seven of these divisions—all except Technical Sciences—offer upper division courses on the San Fernando Valley Campus. Beginning in the fall of 1957, first-year (Freshman) courses will be offered on the Valley Campus. Students should consult the Fall Semester, 1957, *Schedule of Classes* of the San Fernando Valley Campus for the precise course offerings.

AIMS AND FUNCTIONS

The college is established to serve the needs of the community. Its primary functions include the preparation of teachers, 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, and the preparation of students for advanced professional study.

ACCREDITATION

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

EXTENDED DAY PROGRAM

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

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

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

Admission

For information regarding admission to the Extended Day Program, see page 45.

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 after the close of the spring semester. Work may be taken toward the bachelor of arts, bachelor of science, master of arts, or master of science degrees, and all teaching credentials. Day and evening classes are scheduled. It is not necessary to file an application for admission to the summer session unless the student is working toward a degree or credential.

Many special features are included in the summer session that are not scheduled during the regular school year. These include workshops and seminars for teachers and for other occupational groups. An extensive program of recreational activities is arranged for summer session students. A tuition fee of \$9 per unit (subject to change) is charged. For details, write to the Director of Summer Session, Los Angeles State College, 855 North Vermont Avenue, Los Angeles 29, California.

EXTENSION SERVICE

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

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

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

Persons desiring detailed information regarding the organization of an extension course or current extension offerings should address inquiries to Dean of Educational Services on the Vermont campus.

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. Apply the principles he is studying.
2. Learn to work with others through firsthand experience.
3. Develop a sense of responsibility in doing productive work.
4. Test his vocational choice before graduation.
5. 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 be a regularly enrolled student (carrying six units or more), have a grade average of "C" or better, and be recommended by faculty members and a former employer in the field of his proposed work-study. Applications for participation in the business and industry phases of the program should be filed in the office of the Work-Study Coordinator prior to registration.

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 prior to registration in the college is 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 190, 550, 610, 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.

COLLEGE LIBRARY

Ramona and Vermont Campuses

The library at the Ramona Campus houses the major share of the book collection and the reference, circulation, and periodical services for pertinent curricula. At the Vermont Campus the library has five buildings, adjacent to North Heliotrope Drive, which provide circulation, reference, and periodical services and house the acquisitions and cataloging activities for the three campuses.

The libraries on both campuses are open Monday through Thursday from 8 a.m. to 9:50 p.m.; and Friday, from 8 a.m. to 5 p.m. Only the Ramona Library is open on Saturdays, from 9 a.m. to 1 p.m. Students are actively assisted in the use of library facilities by 21 librarians, 16 library assistants, and some 30 part-time student assistants.

The book collection contains more than 70,000 volumes, including 12,000 bound volumes of periodicals selected particularly for the needs of upper division and graduate students. The 1,100 periodicals and newspapers and the 46 indexing services received currently include the more significant federal and California state publications. The library is an official depository for U. S. Government documents. The reference collection includes 5,000 volumes and files of 3,000 pamphlets. Many volumes of periodicals and the *New York Times* are available on microcards and microfilm. At the Ramona Campus are located the juvenile collection of 4,000 volumes, the textbook collection and California state textbooks, and the curriculum file consisting of public school courses of study and units of work.

Books and facilities of the two libraries are available to all students of the college. Daily messenger service is provided between the campuses so that books are readily interchanged as needed.

San Fernando Valley Campus

At the San Fernando Valley Campus a new college library of periodicals, books, and other instructional materials is being organized. In March 1957, this library numbered 7,000 volumes, including bound periodicals. More than 300 periodicals and 24 of the important indexing services are received currently. Collections of pamphlets, government publications, juvenile books, State of California textbooks, microfilm, and curriculum materials are being rapidly purchased and processed.

The reference and circulation departments are staffed by four librarians and three clerical assistants. The library is open from 8 a.m. to 9 p.m., Monday through Thursday; from 8 a.m. to 5 p.m. on Friday; and closed Saturday.

State college students of the three campuses have available to them the unusual library resources of the Los Angeles metropolitan area, including the 90,000 volumes of the Los Angeles City College Library on the Vermont Campus. Also open to students are the libraries of the University of Southern California and UCLA, the Los Angeles Public Library, the Los Angeles County Library system, many other public libraries, and the world-famous collections of the Clark and Huntington Libraries. Books are borrowed on inter-library loan when not obtainable in the Los Angeles area.

PERSONNEL SERVICES

The student personnel services of Los Angeles State College are centered in the Admissions and Registrar's Office, the Counseling Center, the Student Activities Office, the Placement Office, and the Health Service. The student personnel program is under the general direction of the Office of the Dean of Student Personnel with administrative officers in charge of each department. Staff members from each department are available to students on all three campuses of the college.

ADMISSIONS AND REGISTRAR'S OFFICE

All applications for admission to the three campuses of the college are processed in the central Admission and Registrar's Office on the Vermont campus, 855 North Vermont Avenue, Los Angeles 29. Students should direct inquiries regarding admissions policies to this central office. Staff members from the Admissions and Registrar's Office are available on each campus for routine transactions.

COUNSELING CENTER

Counseling

The college seeks to give individual attention to the needs of students. Services of a professionally trained staff are available to any student who wishes help with educational, vocational, and personal problems.

Testing

The Testing Bureau provides a complete testing service for students. All new day students participate in an entrance testing program immediately prior to each registration period. The results of these tests are used primarily for counseling purposes; they will not negatively affect the admissions status of a student who has qualified for admission on the basis of his previous academic record. However, the test results are used by the various academic departments as a factor in determining a student's eligibility for admission to the teacher training program.

Students who wish supplementary testing not given in the entrance testing program are invited to call upon the Test Officer for assistance.

Foreign Student Affairs

A foreign students' adviser is available in the Counseling Center to assist foreign students who are in this country for the primary purpose of study. Their status as students is complicated by certain conditions established by federal law, by certain specific regulations and requirements of the college, and by certain provisos laid down by their particular governments. The student must comply with the various regulations to continue his studies in this country.

Veterans Affairs

The Counseling Center maintains an office of Veterans' Affairs. Any veteran with questions relating to benefits, the completion of forms, courses of study, or related problems should consult with the Veterans' Affairs Officer.

STUDENT ACTIVITIES

Student Government

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

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

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

Student Organizations

Students may elect membership in many of the special interests groups, such as the Scholarship Society, Industrial Arts 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 Interfraternity and Panhellenic councils. Fraternity and sorority handbooks are available at registration and in the Student Activities Offices.

Student Publications

The *College Times* is the day student's newspaper published weekly by the Associated Students. The *Night Times* is the student newspaper published monthly for Extended Day students. The college yearbook is called the *Pitchfork Statement* is a student literary publication which appears each year. 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 Loans and Scholarship Committee and are awarded on the basis of (1) need, (2) scholarship, (3) co-curricular participation, and (4) future potential. Additional information may be obtained at the Office of the Dean of Student Personnel.

Alpha Theta Pi Alumnae Scholarship: \$30 awarded to a matriculated woman student who has completed one semester at Los Angeles State College with a grade point average of at least 2.5.

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

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

Avalon Woodworking Company Scholarship: \$50 (\$25 per semester) to a needy student designated by the Industrial Arts Faculty.

Bisignano Memorial Scholarship: \$30 per semester for a male student. Criteria: (1) grade point average of 2.5, (2) junior or senior with a physical education major, (3) above average athletic skills and interest in physical education and recreation activities, and (4) seasonal squad membership in a sport.

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

Chester R. Milham Scholarship: \$100 scholarship offered to a man or woman evening division student per each semester. The following items will be considered in awarding this scholarship: (1) at least a 2.5 grade point average, (2) need, (3) potential, (4) campus activities, (5) student must have accumulated 17 units at state college and must be carrying at least six units in evening division courses at time of application.

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

C. S. E. A. Highway Chapter No. 101 Scholarship: A \$300 scholarship offered to a student in good academic standing, preferably an engineering major.

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.

Hollywood Turf Club Associated Charities, Inc. Special Education Scholarships: Five \$100 scholarships offered by the Hollywood Turf Club Associated Charities, Inc. To be eligible, students must take at least six units or more per semester in courses leading to credentials for teaching the physically handicapped, cerebral palsied, deaf-hard of hearing, speech defective, blind-partially sighted, mentally retarded.

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

Institute of International Education: Fellowships for graduate study abroad in 1957-58 are offered through this agency. Detailed eligibility requirements and application information may be obtained in the Office of the Dean of Student Personnel.

Jacob Korşen Memorial Printing Management Scholarship: \$500 per year. Criteria are as follows: (1) 2.3 or better accumulated grade point average, (2) an indicated need, (3) indications from the references of potential future success.

- Joan Hobson Memorial Scholarship: \$62.50 offered each semester to a man or woman music major who is a student of the violin or viola, with a grade point average of not less than 2.5; awarded upon the basis of need.
- Los Angeles State College Bookstore Scholarships: \$150 per semester (\$50 per campus). Student (1) must be enrolled in 12 or more units either at the Ramona, Vermont, or San Fernando Valley Campuses, (2) have a grade point average of 2.5 (C plus) or better, and (3) may be in any division or curricula of the college. Selection will be made on the basis of scholarship, need, potential leadership, and probable future success.
- Los Angeles State College Faculty Wives Scholarship: \$30 offered each year to a senior or graduate woman student.
- Los Angeles State College Essay Contest: Cash prizes are awarded to the winners of an essay contest sponsored by Mr. George Burleigh and conducted by the Division of Language Arts.
- Omega Alpha Delta Helen N. Fox Scholarship: A scholarship covering tuition costs for the summer session offered to a woman student enrolling in summer session. The applicant must have been registered at Los Angeles State College for the preceding year with a total of six units, must be employed full time, and have a grade point average of 3.0.
- Phi Epsilon Kappa Scholarship: One \$30 scholarship awarded annually in the spring semester to a male student majoring in health, physical education, or recreation. The student must be a junior college transfer recommended by his physical education department chairman.
- Phi Mu Alpha Scholarship: Two \$25 scholarships offered annually to outstanding male musicians in their sophomore year at a junior college who plan to attend Los Angeles State College majoring in music.
- Printing Management Scholarship: \$250 per year. For a junior or senior student in the Printing Management Program at Los Angeles State College. Criteria: (1) 2.3 or better accumulated grade point average, (2) an indicated need, (3) indications from the references of potential future success.
- Recreation Directors' Association Scholarship: Two \$50 scholarships offered by the Recreation Directors' Association of Los Angeles. Awards are made yearly to one man and one woman student majoring in recreation.
- Sigma Alpha Iota: One \$30 scholarship offered to junior, senior, or graduate woman students who are members of the sorority and have a 3.0 grade point average in their major.
- Scholarship Society Scholarship: \$25 offered each semester to a member of the Scholarship Society having an academic average of 3.2 or better.
- Special Education
- Fellowships: Five graduate fellowships of \$750 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.
- Teacher Elementary Education Scholarships of the California Congress of Parents and Teachers: Six \$200 scholarships offered each year to elementary education majors.
- Teacher Secondary Education Scholarships of the California Congress of Parents and Teachers: Six \$200 scholarships offered per year to secondary education majors who are fifth year students.
- Whittier Panhellenic Council Scholarships: \$200 for the fall semester available to a registered woman student in good standing in her junior or senior year whose home is in the City of Whittier or adjacent county territory.

Loans

A limited number of short term loans are 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 Offices of the Associate Dean of Student Activities.

Other loan funds include:

Opti-Mrs. Loan Fund for Women Student Teachers: \$75 per semester available to women enrolled in directed teaching, to be paid following graduation.
College Book Co. of California Loan Fund: Moneys are made available for books and supplies to the limit of \$25 per semester. Moneys loaned are to be paid back a month before the end of each semester at the Graduate Manager's Office, the accumulated funds to be available for future scholarships.

Living Accommodations

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

HEALTH SERVICES

The college maintains a health center on each of the three campuses. These centers have facilities for medical examination of students who are registered at the college. Examinations are required of all teacher training candidates. The medical service staff is available to students for first aid treatment and for counseling of students with health problems.

ASSOCIATED CLINICS

The Associated Clinics of the college are situated on the Ramona Campus. They are designed as the center for the supervised clinical practice required for special education teaching credentials. The clinics are well equipped for diagnostic and remedial services in speech, hearing, and reading. On-campus students are eligible, on referral, for assistance in remedial reading, lip reading, speech correction, and hearing evaluations. Foreign students with a speech problem are referred here for intensive training.

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, the National Association of Intercollegiate Athletics, and the California Collegiate Athletic Association. Every effort is made to send athletes and teams to participate in such competition when they have achieved outstanding records.

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

PLACEMENT OFFICE

The Placement Office assists students to obtain both part-time and full-time employment.

Teacher Placement Office. This office is on the Vermont Campus, 755 North Berendo, Apt. E. Persons who have done their directed teaching under the supervision of Los Angeles State College are eligible to use the services of this office. Limited service is also available to students who have completed 12 units of work with the college.

Complete records of 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.

Industrial Full-Time Placement Office and Part-Time Placement Office. These offices are on the Ramona Campus, Building M, Room 2. Students who are currently enrolled and are carrying more than six units are eligible for part-time placement. All students who have attended Los Angeles State College are eligible for full-time placement.

San Fernando Placement Office. For those students who are registered on the San Fernando Campus, Teacher Placement and full-time and part-time placement services are available in Building I, Room 1.

NONRESIDENT STUDENT FEES

Admission requirements for nonresident students are the same as those for all other applicants and are shown on the successor pages. A nonresident tuition fee is payable by all regular and limited students who have not been legal residents of the State of California for one year immediately preceding date of enrollment. This fee amounts to \$2 per unit, to a maximum of \$20 per semester.

SECOND REGULATIONS

Written application for refund of fees must be made to the College Business Office within time limits prescribed by the State Administrative Code. Application forms and information concerning refunds are available at the Business Office. Early application is important since delay may reduce the amount of the refund received. Veterans except those under Public Law 750 receiving a letter of eligibility from the state or federal veterans authorities are entitled to a full refund of registration fees if eligibility commences from the first day of instruction. If eligibility commences after the first day of instruction a pro rata refund will be made.

SCHEDULE OF FEES

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

REGISTRATION FEES

(Payable at time of registration)

		<i>Total</i>
Each student enrolled for less than 4 units		
Materials and service.....	\$9.00	
Student activity.....	5.00	\$14.00
Each student enrolled from 4 to not over 6 units		
Materials and service.....	15.00	
Student activity.....	5.00	20.00
Each student enrolled for over 6 units		
Materials and service.....	20.00	
Student activity.....	9.00	29.00
Nonresident tuition (in addition to above fees)		
15 units or more.....		90.00
Less than 15 units, per unit.....		6.00

OTHER FEES OR CHARGES

(Payable when service is rendered)

Extension, per unit.....	\$8.50	
Late registration.....	2.00	
Change of program.....	1.00	
Transcript of records (after first copy).....	1.00	
Diploma fee, for graduating seniors.....	3.00	
Library books or materials overdue, damaged or lost (consult the library for schedule of fees)		
Music lessons (for private instruction).....	1.00 to	4.00
Failure to meet administratively required appointment or time limit.....		2.00
Replacement of laboratory equipment lost or broken.....		Cost

NONRESIDENT STUDENT FEES

Admission requirements for nonresident students are the same as those for all other applicants and are shown on the succeeding pages. A nonresident tuition fee is payable by all regular and limited students who have not been legal residents of the State of California for one year immediately preceding date of enrollment. This fee amounts to \$6 per unit, to a maximum of \$90 per semester.

REFUND REGULATIONS

Written application for refund of fees must be made to the College Business Office, within time limits prescribed by the State Administrative Code. Application forms and information concerning refunds are available at the Business Office. Early application is important since delay may reduce the amount of the refund received.

Veterans, except those under Public Law 550, receiving a letter of eligibility from the state or federal veterans authorities are entitled to a full refund of registration fees if eligibility commences from the first day of instruction. If eligibility commences after the first day of instruction a prorata refund will be made.

ADMISSIONS POLICIES

Admissions standards at Los Angeles State College are in accordance with policies stated in the California Administrative Code, Title 5, Education, which provides uniform admission regulations for all California State Colleges. The scholarship requirements outlined in this catalog are in accordance with those code provisions which are applicable to Los Angeles State College.

APPLICATION FOR ADMISSION

New Students. Students wishing admission to Los Angeles State College must file applications with the Admissions Office, 855 N. Vermont Avenue, Los Angeles, on the form provided for that purpose. The application form will be mailed to prospective applicants upon request. The application should be filed by August 16, 1957, for the fall semester, and January 10, 1958, for the spring semester. The college reserves the right to refuse to accept applications filed after these dates.

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

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

TRANSCRIPTS REQUIRED

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

regulations and procedures apply to all applicants, including students seeking admission to late afternoon and evening classes offered in the extended day program, except as indicated below:

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

ADMISSION TO UNDERGRADUATE STATUS

Ramona-Vermont Campuses. Los Angeles State College offers only very limited course work below the junior year level on the Ramona and Vermont campuses. In order to qualify for admission to programs offered on these campuses, the student must have completed a minimum of 54 semester units of acceptable academic work at accredited institutions of collegiate level. The student must have earned at least a "C" average in all college work undertaken and have been in good standing at institutions previously attended. While no specific course pattern is required for admission, students attending other institutions in preparation for transfer to Los Angeles State College should select courses to satisfy General Education requirements (see pages 53-55) and preparatory courses as required in the proposed major field. A student not meeting the above requirements may be admitted on probation if, in the judgment of the college officials, such action is warranted.

San Fernando Valley Campus. Admission requirements for this campus are identical with those of the other campuses for students seeking admission with junior standing or higher.

In the fall of 1957 a program for freshmen students will be offered on the San Fernando Valley Campus. High school graduates with no previous college work who are interested in admission to this campus as freshmen students should address an inquiry to:

Admissions Office
San Fernando Valley Campus
Los Angeles State College
Zelzah and Nordhoff Street
Northridge, California

ADMISSION WITH GRADUATE STATUS

This college recognizes a four-year bachelor's degree earned at an accredited college or university as meeting the requirements for graduate status, provided the pattern of course work is substantially similar to that required for the Bachelor's Degree at Los Angeles State College. Graduate status does not constitute admission to candidacy for the master's degree, which may be granted only upon meeting the requirements described on pages 56-59.

ADMISSION TO TEACHING CREDENTIAL PROGRAMS

Admission to the college as a regular student does not constitute admission to the teaching credential program. Students who intend to work toward credentials must make application to the Education Division during their first semester of attendance, following the procedure outlined in the section of this catalog dealing with that subject. See pages 115-118.

ADMISSION OF STUDENTS FROM FOREIGN COUNTRIES

International students seeking admission to the United States on the basis of acceptance by 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 student's orientation to the American culture and system of education.

CANCELLATION OF ADMISSION

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

EVALUATION OF TRANSFER CREDIT

The Admissions Office will evaluate previous college work in terms of its relationship to the requirements of Los Angeles State College. All new students will be issued a "Credit Summary" which serves as a basis for determining specific remaining requirements for the student's specific objective. Once issued to the student, the evaluation becomes valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. The student will not be held to additional graduation requirements unless such re-

quirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

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

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

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

CREDIT FOR MILITARY SERVICE

The college allows undergraduate 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 apply for such credit, the student must file with the Admissions Office a photostatic copy of his honorable discharge. This should be done at the time application for admission is made.

CREDIT FOR EXTENSION AND CORRESPONDENCE COURSES

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

JUNIOR COLLEGE CREDIT

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

CLASSIFICATION OF STUDENTS

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

GENERAL REGULATIONS

REGISTRATION PROCEDURE

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

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

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

Late Registration

Students who have been cleared by the Admissions Office but who are unable to register during the regular registration period may register late only with the approval of the Registrar. Late registrants will find themselves severely handicapped in arranging their programs and must pay a two-dollar (\$2) late registration fee. The last day to register late each semester will be announced in the *Schedule of Classes*.

Study Load

The maximum study load recommended by the college is 16 units. However, upon approval of the faculty adviser, a student may enroll for as many as 18 units. This approval must be in writing and on a special form procured from the adviser. Such approval will not normally be given unless the student's previous scholastic record warrants such action. The only exception to this regulation is that a student may register for one unit above the 16 unit maximum if the course is one of the following activity courses: Music 115, 135, 145, 147, 155; Physical Education 101, 102, 103, 106, 107, and 108. Graduate students who are candidates for the Master's Degree may count a maximum of 16 units per semester toward their degree requirements. (Note: Nonmatriculated students are limited to six units.)

Selective Service Regulation

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

Auditors

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

Registration in Los Angeles City College Courses

In certain cases Los Angeles State College matriculated students may be permitted to carry Los Angeles City College classes as part of their study lists. This may be done only upon application to the State College Registrar's Office. Requirements for permission to cross-register include a 2.0 grade average, prior approval of the State College Division Chairman concerned, approval of the City College instructor, and final verification by the State College Registrar. A student may not carry more units in City College classes than in State College classes. Details regarding procedure will be available at registration time. Nonmatriculated students who wish to take City College classes must register separately.

Dual Registration

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

Registration in Graduate Courses

An undergraduate student is not permitted to enroll in graduate level courses those numbered (200-299) except under provisions outlined in the Graduate Bulletin. Graduate courses carry no credit toward a bachelor's degree.

CHANGE OF PROGRAM**Addition of Courses**

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

Withdrawal From Courses

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 sixth to the fourteenth week either a "WP" or a "WF" will be recorded, depending on whether or not he has the approval of the instructor and is doing at least "C" level work at the time of official withdrawal. No withdrawal is permitted after the fourteenth week.

ATTENDANCE REGULATIONS

The effect of absence from class upon the student's grade is at the discretion of the individual faculty member. In courses involving lectures and direct student participation, absence will undoubtedly affect the student's grade. The student is responsible to the instructor to make up work missed because of unavoidable absence.

SCHOLARSHIP POLICIES

Grading System

The marking system is as follows. The letters A, B, C, and D indicate passing grades: A, excellent; B, above average; C, average; D, below average; Cr. denotes credit, no letter grade assigned. Failure is indicated by F. WF means "withdrew failing." This mark is assigned a student who is below average at the time he is allowed to withdraw from a course. WP ("withdrew passing") is assigned if a student is doing average work or better at the time of official withdrawal.

If a student is unable to complete all of the semester's work, but has satisfactorily finished all except the final four weeks, he may receive an "incomplete," (recorded "I"). An "I" grade must be cleared within the succeeding year. Otherwise it remains an incomplete grade on the student's record and gives no unit credit. Requirements for clearance are to be specified by the instructor concerned.

The scholarship average is obtained by dividing the total number of grade points by the total number of units for which the student registered. Grade points are assigned as follows:

Grade A receives 4 points per unit of the course taken.

Grade B receives 3 points per unit of the course taken.

Grade C receives 2 points per unit of the course taken.

Grade D receives 1 point per unit of the course taken.

Grade F or WF or I receives 0 points per unit of the course taken.

Grade WP is not figured in the grade point average.

Grade CR is not figured in the grade point average.

Note: The above grade-point system became effective September 1, 1956. Previously a grade of A has given 3 grade points per unit; B, 2 grade points; C, 1 grade point; D and F, 0 grade points.

For students entering Los Angeles State College after September, 1956, the scholarship averages for work done in other colleges will be determined according to the new grade point system.

Unit of Credit

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

Course Numbering System

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

Repeated Courses

Students may repeat courses in which a grade of D, F, or I was previously received. However, effective September, 1956, both the original grade and grade earned in the repeated course will be figured in the calculation of the student's grade point average. No additional credit toward semester unit requirements will be allowed for repeat of course in which the initial grade was "D."

Probation

Any student whose scholarship record shows a grade point average of less than "C" (2.0) for all work attempted at Los Angeles State College will be placed on probation.

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

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

Disqualification

Any student who earns less than a "C" average in a semester while on probationary status will be disqualified. Disqualified students may apply for readmission only after one full semester has elapsed subsequent to the date of disqualification.

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 will 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 from 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.

DEGREE REQUIREMENTS

BACHELOR'S DEGREE CURRICULA

The Los Angeles State College offers three types of bachelor's degree: bachelor of arts (B.A.), bachelor of science (B.S.), and bachelor of vocational education (B.V.E.).

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

Bachelor of Science Degree. The bachelor of science degree is offered with majors in: Business Administration (with options in Accounting; Business Arts; Business Economics and Statistics; Finance; Management; Marketing and Merchandising; Office Administration; Special Business; Transportation and Foreign Trade); Engineering; Medical Technology; Nursing; Police Science and Administration; Printing Management; Recreation Education.

Bachelor of Vocational Education Degree. The bachelor of vocational education degree is offered for those vocational teachers recommended by the California State Board of Examiners for Vocational Teachers. Vocational teachers interested in details regarding this program should see the Chairman of the Division of Technical Science, Los Angeles State College, Vermont Campus.

GENERAL REQUIREMENTS FOR BACHELOR'S DEGREE

General Education Requirement

General education is nonspecialized education taken by all students, regardless of the type of bachelor's degree or the major field selected. The purposes are the broadening of the cultural background of the student and the strengthening of competencies needed by him to participate effectively in a democratic society. Each candidate must satisfy either through courses accepted by the Admissions Office upon transfer or through specifically designated courses at Los Angeles State College the following pattern of requirements.

The list of state college courses acceptable for general education credit is published every semester in the Schedule of Classes.

The college is presently completing an extensive revision of its General Education program. During the academic year 1957-58 the new general education program will be introduced in selected classes, largely

those designed for students entering as freshmen on the San Fernando Valley Campus. A separate *Bulletin* outlining the new program will be issued. During the interim period prior to the college-wide adoption of the new program all other students should follow the old pattern outlined below.

A minimum of 45 units distributed in the following pattern is required.

1. An understanding of the cultural background of our society, the principles and forms of American democracy, and the political, social, and economic structures of other societies in the world. These requirements are to be fulfilled through the following distribution in the:
SOCIAL SCIENCES (a, b, and c below) 9 units minimum
 - a. A course or courses involving American history and government, the Constitution, American institutions and ideals, and California state and local government.
 - b. A course or courses involving the study of world history and cultures or European history and culture.
 - c. A course or courses involving the study of man in his environment (such as courses in cultural anthropology, cultural geography, economics, sociology, and similar fields).
2. 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) 9 units minimum
 - a. An appropriate course or courses in the biological sciences.
 - b. An appropriate course or courses in the physical sciences.
3. Facility in reading, writing, speaking, and listening to be fulfilled by courses in:
ORAL AND WRITTEN EXPRESSION 6 units minimum
 The above must include at least one course, of two or three units, in written composition and a two or three unit course in the fundamentals of public speaking.
4. Experience in the arts to be fulfilled by courses in the
FINE OR PRACTICAL ARTS 3 units minimum
5. An understanding of the values and value systems of man to be fulfilled by appropriate courses in either
LITERATURE, PHILOSOPHY, OR BOTH FIELDS 6 units minimum
6. A study of the behavior of man to be fulfilled by a course or courses in:
GENERAL PSYCHOLOGY 3 units minimum
7. Participation in a program of health instruction to be fulfilled by a course including instruction in fire prevention, narcotics, alcohol, drugs and safety:
HEALTH EDUCATION 2 units minimum
8. Participation in a program of physical education to be fulfilled by courses in:
PHYSICAL EDUCATION ACTIVITIES 2 units minimum

9. **ADDITIONAL COURSES IN GENERAL EDUCATION**... 5 units minimum
 Additional courses in general education in one or more of the above areas or in other fields of general education which are of particular interest to the student and which may be distributed among courses in family life education, mathematics, and foreign language.

Major Department Requirements

Each student must complete the requirements outlined by the department of his selected major field. Requirements for the various departmental majors are listed in the appropriate sections of this bulletin.

Total Unit Requirement

The bachelor of arts and the bachelor of vocational education degrees require completion of 124 units. The bachelor of science degree requires 124-132 units, depending upon the major field selected. At least 40 units must be in courses carrying upper division credit.

Scholarship Requirement

The student must earn at least a 2.0 grade point average in all college work attempted, all work at Los Angeles State College, and all upper division course work in his major field.

Residence Requirement

For the bachelor of arts, bachelor of science, and bachelor of vocational education degrees a minimum of 24 semester units shall be earned in residence in the college granting the degree. At least one-half of these units shall be completed among the last 20 semester units counted toward the degree. Credit in summer session may be substituted for regular session unit requirements on a unit-for-unit basis. Extension courses may not apply on the residence requirement.

U. S. History and Constitution Requirement

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

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

The United States Constitution requirement 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 15, 1957, and April 10,

1958. 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 requirement (3) below.
2. Undergraduates will be eligible to qualify by examination only when their program *upon admission* does not allow sufficient units to complete the necessary courses without undue hardship.
3. Students must be currently enrolled in Los Angeles State College.
4. Students must not have already failed this optional examination.
5. Application must be made to the American Institutions Committee at least three weeks prior to date of examination.

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

Faculty Approval

All candidates for graduation must be approved by the faculty at a formal meeting called by the president for that purpose.

Application for Graduation

A formal application should be filed with the Registrar's Office early in the semester preceding the semester in which the student plans to complete requirements for the degree. This will enable the student to secure a statement of remaining requirements in time to assure proper selection of courses for the final semester.

THE MASTER OF ARTS DEGREE

The purpose of the master of arts degree is to improve the candidate's professional competence in educational service and to develop his ability for continued self-directed study in the field of his professional service.

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

Minimum Requirements for the Master of Arts Degree

1. An appropriate baccalaureate degree from an accredited institution.
2. The holding of a valid regular day school credential for California, other than an emergency or a provisional credential.

NOTE: This second requirement may be waived for (a) students who because of citizenship in a foreign country are ineligible for a California credential but who are teachers or 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).

3. A grade point average of 3.0 in the field of concentration, in the courses submitted to fulfill requirements for the M.A. degree, and separately in all work beyond the B.A. taken at Los Angeles State College.

4. Thirty semester hours of approved courses taken within the seven years immediately preceding the date when all requirements for the degree are completed. (Time may be extended for students who pass a comprehensive examination.)

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

6. Completion of a field of concentration of 15 units, including not less than six units in strictly graduate courses, as prescribed by a division of the college authorized to offer a graduate program.

7. Completion of six units outside the field of concentration.

8. *Student must enroll in and complete at least nine units of his degree program after formal admission to candidacy.*

9. Completion at Los Angeles State College of the last 24 units used to satisfy degree requirements.

10. Passing of a comprehensive examination and/or completion of a project in the field of concentration as prescribed by the appropriate division of the college.

11. No more than six units total credit for acceptable (a) transferred work, (b) extension courses, (c) student teaching, (d) activity courses, (e) work-study, or any combination of these may be used in the degree program.

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

THE MASTER OF SCIENCE DEGREE

The general purpose of the master of science degree is to increase the candidate's competence through advanced occupational training in applied fields.

The master of science degree is offered with fields of concentration in Business and Psychology.

Minimum Requirements for the Master of Science Degree

1. An appropriate baccalaureate degree from an accredited institution.

2. A grade point average of 3.0 in the courses submitted to fulfill requirements for the M.S. degree, and separately in all work taken at Los Angeles State College beyond the bachelor's degree.

3. Thirty semester hours of approved courses taken within the seven years immediately preceding the date when all requirements for the degree are completed. (Time may be extended for students who pass a comprehensive examination.)

4. If the candidate is without experience in the occupational field, six units of approved work-study (in addition to the standard 30) are required.
5. A minimum of 10 units in strictly graduate ("200") courses.
6. Completion of a field of concentration of 15 units, including not less than six units in strictly graduate courses, as prescribed by the appropriate division of the college.
7. Student must enroll in and complete at least nine units of his degree program *after* formal admission to candidacy.
8. Completion at Los Angeles State College of the last 24 units used to satisfy degree requirements.
9. Passing of a comprehensive examination and/or completion of a project as prescribed by the appropriate division of the college.
10. No more than six units total credit for acceptable (a) transferred work, (b) extension courses, (c) activity courses, or a combination of these may be used in the degree program.
11. Conformance with specific requirements for the degree program in the chosen field of concentration.

CANDIDACY FOR MASTER'S DEGREES

The following is a summary only. Consult the *Graduate Bulletin* for specific rules, regulations, and procedures for graduate study.

1. Early in his first semester of graduate residence, each student who intends to work toward a master's degree must:
 - a. Apply to the Admissions Office for admission to graduate standing,
 - b. Take the required entrance examinations at the College Testing Center,
 - c. Confer with the adviser assigned by his division chairman to make out the program leading to a graduate degree, and
 - d. Request written recommendations on forms prescribed by the college.
2. Later that semester, the Graduate Study Committee will approve, defer, or reject the student as a formal candidate on the bases of his academic record, personal qualifications, health, and professional promise. Particularly, each student must, to be approved:
 - a. Have an undergraduate grade point average of at least 2.75 in upper division work; or complete in residence 12 units of the proposed degree program, including at least 6 units in the field of concentration, with a grade point average of 3.0 or better.
 - b. Have completed all prerequisites to his degree program and be enrolled in courses in his field of concentration.

COURSES NOT ACCEPTABLE IN MASTER'S PROGRAMS

- | | |
|--------------------------------------|----------------------------------|
| Anthropology 104 | *Journalism 196 |
| Biological Science 100 | Language Arts 100AB |
| Business 100A, 103, 104, 106, 108A | *Music 115, 135, 146, 147, 155 |
| Conservation 161 | Microbiology 100AB |
| Economics 101 | Nature Study 118 |
| Education 100 | *Physical Education 121, and all |
| English 106A | courses numbered below 111 |
| *Drama 196 | Physical Science 100 |
| Geography 101 | Psychology 100 |
| Geology 101 | Social Science 100 |
| Government 101 | Sociology 102, 104 |
| Health and Safety Education 121, 154 | |

All courses numbered "198," and activity courses (asterisked), are not acceptable, except in specific cases which have been approved by petition, as described in the *Graduate Bulletin*.

ANTHROPOLOGY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Luhrs, Byron, Nishi, Rowan
SAN FERNANDO VALLEY CAMPUS: Ford

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

COURSES OF INSTRUCTION

(No major is offered)

Prerequisites: General anthropology or consent of instructor.

101 Culture Areas of the World (3) Fall

Survey of principal culture types and their distribution in the world; discussion of ethnological problems.

104 Cultural Anthropology (3) Fall, Spring

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

105 Culture and Personality (3) Fall, Spring

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

106 Indians of North America (3) Spring

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

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

Origins, modes of subsistence, social organization, and geographic and historical relationships. The European conquest and the present condition of the several tribes.

108 Middle America (3) Spring

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

138 Peoples of Africa (3) Fall

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

147 Peoples of the Pacific (3) Spring

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

199 Independent Study (1-3) Fall, Spring

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

Lower Division	
Basic Courses	
2 units	History of Art History
1 unit	Introductory to Reading
1 unit	Crafts or Ceramics
2 units	Art Practice or Design
2 units	Art Practice
Upper Division	
Select from the following	
3 units	Art 101AB—Art in Modern Life (3-1)
3 units	Art 111AB—Art History (3-1)
3 units	Art 112AB—Art History (3-1)
Select from the following	
3 units	Art 102AB—Advanced Painting (3-1)
3 units	Art 113AB—Advanced Painting (3-1)
3 units	Art 114AB—Self Life Painting (3-1)
3 units	Art 115AB—Life Composition (3-1)
Select from the following	
3 units	Art 102B—Introduction to Craft Materials (3-1)
3 units	Art 112AB—Fundamental Design and Construction (3-1)
3 units	Art 113AB—Ceramics (3-1)
3 units	Art 114—Crafts for Elementary School (3-1)
3 units	Art 115AB—Advanced Ceramics (3-1)
3 units	Art 116AB—Advanced Crafts (3-1)
3 units	Art 117AB—Textiles and Weaving (3-1)
3 units	Art 118AB—Metalworking (3-1)
3 units	Art 119AB—Metalworking (3-1)
3 units	Art 120AB—Metalworking (3-1)

ART

(In the Division of Fine Arts)

RAMONA-VERMONT CAMPUSES: Manion (Department Head), Askin, Cornish, Daywalt, Fuller, Hoffman, Johnson, Kasza, Little, Roysner, Silverman, Takeshita, Williams.

SAN FERNANDO VALLEY CAMPUS: Heath, Sudlow, Tramel.

BACHELOR'S DEGREE CURRICULA

Major in Art

The curriculum in art and the requirements for the degree provide a broad base and thorough grounding in all phases of art. The department considers this breadth essential to each art major regardless of his eventual field of specialization. With this foundation, a student may prepare himself as a teacher, designer, painter, or craftsman by selecting appropriate art courses and electives in consultation with his adviser.

Lower Division

Basic Courses:

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

Upper Division

Select from the following.....	6 units
Art 101AB—Art in Modern Life (3-3)	
Art 111AB—Art History (3-3)	
Art 112AB—Art History (3-3)	
Select from the following.....	8 units
Art 104AB—Advanced Painting (3-3)	
Art 134AB—Landscape Painting (3-3)	
Art 144AB—Still Life Painting (2-2)	
Art 164AB—Life Composition (2-2)	
Select from the following.....	6 units
Art 102AB—Introduction to Craft Materials (2-2)	
Art 114AB—Furniture Design and Construction (3-3)	
Art 117AB—Ceramics (2-2)	
Art 120—Crafts for Elementary School (2)	
Art 122AB—Advanced Ceramics (2-2)	
Art 127AB—Advanced Crafts (3-3)	
Art 147AB—Textiles and Weaving (2-2)	
Art 176AB—Metalsmithing (2-2)	
Art 177AB—Metalsmithing (2-2)	
Art 178AB—Metalsmithing (2-2)	

Select from the following.....	6 units
Art 103AB—Three-dimensional Design (2-2)	
Art 116—Theatre Design (2)	
Art 133AB—Advertising Design (2-2)	
Art 143AB—Interior Design (2-2)	
Art 175—Costume Design (2)	
Art 179AB—Art Display and Portfolio (2-2)	
Art 190A—Industrial Graphics (2)	
Electives in Art.....	4 units
	<hr/> 30 units

Special Secondary Teaching Major for B.A. Degree

See also pages 123-124 for professional education requirements.

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

Lower Division

Basic Courses:

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

Upper Division

Art 100—Art for Elementary School.....	2 units
Select from the following.....	6 units
Art 101AB—Art in Modern Life (3-3)	
Art 111AB—Art History (3-3)	
Art 112AB—Art History (3-3)	
Select from the following.....	8 units
Art 104AB—Advanced Painting (3-3)	
Art 134AB—Landscape Painting (3-3)	
Art 164AB—Life Composition (2-2)	
Select from the following.....	6 units
Art 102AB—Introduction to Craft Materials (2-2)	
Art 114AB—Furniture Design and Construction (3-3)	
Art 117AB—Ceramics (2-2)	
Art 120—Crafts for Elementary School (2)	
Art 122AB—Advanced Ceramics (2-2)	
Art 127AB—Advanced Crafts (3-3)	
Art 130—Crafts for the Secondary School (2)	
Art 147AB—Textiles and Weaving (2-2)	
Select from the following.....	6 units
Art 103AB—Three-dimensional Design (2-2)	
Art 116—Theatre Design (2)	
Art 133AB—Advertising Design (2-2)	
Art 143AB—Interior Design (2-2)	
Art 175—Costume Design (2)	
Art 179AB—Art Display and Portfolio (2-2)	
Art 190A—Industrial Graphics (2)	
Electives in Art.....	2 units
	<hr/> 30 units

General Secondary Teaching Major

The general secondary teaching major in art is the same as the major for the special secondary credential. See also pages 122-124 for professional education requirements. A teaching minor in a different teaching field and a graduate year including additional professional education are required for the general secondary credential.

General Secondary Teaching Minor

Lower Division

Lower division program is the same as that for the major..... 10 units

Upper Division

Art 100—Art for Elementary School..... 2 units

Select from the following..... 2 units

Art 102AB—Introduction to Craft Materials (2-2)

Art 120—Crafts for Elementary School (2)

Select from the following..... 2 units

Art 103AB—Three-dimensional Design (2-2)

Art 133AB—Advertising Design (2-2)

Art 147AB—Textiles and Weaving (2-2)

Select from the following..... 4 units

Art 104AB—Advanced Painting (3-3)

Art 134AB—Landscape Painting (3-3)

Art 164AB—Life Composition (2-2)

20 units

MASTER OF ARTS DEGREE

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

1. Prerequisites

a. Graduate standing.

b. 24 units of art or consent of Fine Arts Division.

2. Area of specialization

a. Seminar in area..... 3 units

Art 204—Seminar in Painting (3)

Art 227—Industrial Application of Crafts (3)

Art 231—Seminar in Art History (3)

Art 233—Seminar in Design (3)

b. Graduate and undergraduate courses in major selected with approval of graduate adviser..... 9 units

c. Art 299—Graduate Project..... 3 units

3. Outside the field of art..... 6 units

4. Electives..... 9 units

COURSES OF INSTRUCTION

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

Basic skills and understandings that enable the primary and elementary teacher to provide art experiences for children. Work with finger painting, water color painting, calcimine painting, map making, manuscript writing, mural painting, figure drawing, chalk drawing, and other media. Laboratory and accompanying lectures.

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

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

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

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

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

Prerequisite: Design or equivalent or consent of instructor. 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) Fall, Spring

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

110 Art Appreciation for Teachers (2) Fall, Spring

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

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

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

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

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

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

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

114 Furniture Design and Construction (3) Fall, Spring

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

116 Theater Design (2) Spring

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

117A-B Ceramics (2-2) Fall, Spring

Prerequisite: One semester of design. Development of the basic skills necessary to the planning, building, firing, and glazing of pottery.

120 Crafts for Elementary School (2) Fall, Spring

Basic skills and understandings that enable the primary and elementary teacher to provide crafts experiences to children. Evaluation of educational value of crafts. Work 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) Fall, Spring

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

126 Construction for Elementary Schools (2) Fall, Spring

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

127A-B Crafts (Advanced) (3-3) Fall, Spring

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. Completing of the designs into finished craft products of professional quality. Leather, wood, various papers, metals, and other media used according to the demands of the individual project.

130 Crafts in the Secondary School (2) Fall, Spring

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

131A-B Oriental Art (3-3) A—Fall; B—Spring

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) Fall, Spring

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

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

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

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

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

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

Experiences in using clay as an expressive medium. Various approaches in modeling forms from nature and in the abstract. Uses of texture and surface treatment. Some experience in casting.

141A-B History of Costume and Furniture (2-2) A—Fall; B—Spring

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

143 Interior Design (2)

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) Fall, Spring

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

147 Textiles and Weaving (2)

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 block prints, stencils and dyes.

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

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

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

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

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

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

175 Costume Design (2) Fall

No prerequisite. The skills necessary to design costumes for stage, street, and other occasions. Projects designed by 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 on functional design as applied to industrial materials.

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

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

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

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

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

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

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

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

190A Commercial Graphics (2) Spring

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

191A Catalog Illustration (2) Fall

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

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES**204 Seminar in Painting (3) Spring**

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

227 Seminar in Crafts (3) Fall

Prerequisites: Two semesters in design, one in crafts; demonstrated ability to carry on independent work of graduate quality. Students create and execute original designs in craft materials. The design and construction of articles in leather, wood, various papers, metals, and other media according to the demands of the individual project.

231 History of Art Seminar (3) Spring

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

233 Seminar in Design (3) Fall

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

299 Graduate Project (3) Fall, Spring

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

GRADUATE COURSES

304 Seminar in Painting (3) Spring

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

317 Seminar in Crafts (3) Fall

Prerequisites: Two semesters in design, one in crafts, demonstrated ability to carry on independent work of graduate quality. Students execute and execute original designs in craft materials. The design and construction of articles in leather, wood, various papers, metals, and other media according to the demands of the individual project.

321 History of Art Seminar (3) Spring

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

AUDIOLOGY

(In the Division of Education)

RAMONA-VERMONT CAMPUSES: Douglass, Jeffers

Beginning in the fall of 1957, the major in audiology is discontinued. The functions served by this major are continued in conjunction with the program in hearing offered by the Department of Special Education. Some of the courses which were formerly part of the audiology major have been reorganized, retitled, and classified with Special Education. Other courses, retaining their audiology letter and classification, appear in this section.

Courses in audiology and related courses in hearing listed in the Division of Education are designed to serve speech and hearing therapists, teachers of the deaf, and other professional personnel working in the field of hearing. Nurses or teachers interested in satisfying the requirement for the public school audiometrist certificate should elect Education 196A—Hearing and Its Measurement.

COURSES OF INSTRUCTION

99 Individual Hearing Therapy (1) Fall, Spring

Formerly Audiology 99—Audiology Therapy. Prerequisite: Consent of instructor. Practical individualized assistance for students who have hearing difficulties. Designed for students who may or may not use hearing aids but who will benefit from speech reading and/or auditory training.

111 Advanced Audiology (3)

Formerly Audiology 111—Advanced Audiometry. Prerequisites: Education 196A and 196B. Instruction and practice in advanced audiometric techniques, including difference limen testing, delayed feedback, and P. G. S. R. Problems of noise in industry, psychogenic overlay, malinger, and relation of audiometric configuration to medical diagnosis.

140 Audiological Instrumentation (3)

Formerly Audiology 140—Hearing Aid Fitting, Adjustment, and Repair. Prerequisites: Education 196A and 196B. Physical characteristics of hearing aids; relation of these characteristics to fitting of hearing aids; study of current models with emphasis on instrument adjustment. Desirable electro-acoustic characteristics of auditory training and speech audiometry units. Equipment used for P. G. S. R. and difference limen testing.

151 Hearing Clinic (1-8)

Formerly Audiology 151—Audiometric Clinic. Prerequisites: Education 196A and 196 B. Clinical practice in evaluation of hearing losses by pure-tone, P. G. S. R. and speech audiometry; hearing aid selection; teaching of hearing-handicapped children and adults.

Hearing and Its Measurement. See Education 196A.

Aural Rehabilitation. See Education 196B.

Speech Reading. See Education 120.

Seminar in Hearing. See Education 236.

COURSES OF INSTRUCTION

150 Individual Hearing Therapy (1) Fall, Spring
Formerly Audiology 99—Audiology Therapy. Prerequisites: Consent of instructor. Practical individualized assistance for students who have hearing difficulties. Designed for students who may or may not see hearing aids but who will benefit from speech reading and/or auditory training.

151 Advanced Audiology (3)
Formerly Audiology 111—Advanced Audiology. Prerequisites: Education 196A and 196B. Instruction and practice in advanced audiometric techniques including difference limen testing, delayed feedback, and problems of noise in industry, psychogenic deafness, malingering, and relation of audiometric configuration to medical diagnosis.

152 Audiological Instrumentation (3)
Formerly Audiology 140—Hearing Aid Fitting, Adjustment, and Re-Adjustment. Prerequisites: Education 196A and 196B. Physical characteristics of hearing aids; relation of these characteristics to fitting of hearing aids; study of current models with emphasis on instrument adjustment. Desirable electro-acoustic characteristics of auditory training and speech audiometry aids. Equipment used for P. G. S. R. and difference limen testing.

BIOLOGICAL SCIENCES

(In the Division of Natural Sciences)

RAMONA-VERMONT CAMPUSES: Anderson (Department Head), Andreoli, Bair, Griesel, Harris, Harvey, Lowrie, Ross, Sacher, Straw, Tamblyn, Welsh.
Part-time: Pulley, Senn.

SAN FERNANDO VALLEY CAMPUS: Reardon.

BACHELOR'S DEGREE CURRICULA

Major in Botany

The major program in botany is designed to provide the student with a broad understanding of basic plant science. Such a training will qualify a student for (a) graduate study in the field of botany; (b) certain types of federal employment; (c) work in the state civil service system, particularly with the state park service, the state forestry service, and the state agricultural inspection service; (d) employment in private industry, such as in plant nurseries and various aspects of horticulture; (e) positions as research technicians in various university projects.

Lower Division

General Botany	5-8 units
General Chemistry	5 units
Organic Chemistry (lecture)	3 units
General Zoology	4-5 units
Electives chosen from the following fields	7-11 units

Botany, Chemistry, Geology, Mathematics, Microbiology, Physics, Zoology.* A minimum of 28 units should be taken in the lower division.

Upper Division

Biological Science 110—Genetics	2 units
Botany 103—Plant Classification	3 units
Botany 110—Plant Physiology	4 units
Botany electives chosen from the following	11 units
Botany 108—Plant Ecology (3)	
Botany 109—Plant Geography (3)	
Botany 115—Morphology of Vascular Plants (3)	
Botany 116—Morphology of Nonvascular Plants (3)	
Botany 120—Plant Anatomy (4)	
Botany 190A-B—Seminar (1-1)	
Botany 199—Independent Study (1-3)	
Electives chosen from the following fields	4 units
Biological Science (other than Biological Science 100), Chemistry, Geology, Mathematics, Microbiology, Physics, and Zoology.	

* Under some circumstances a student may use up to 6 units of upper division courses, other than botany, to satisfy the lower division requirements.

Major in Microbiology

The major program in microbiology is designed to provide adequate basic training in microbiology and related fields, such as chemistry. It will qualify a student for (a) graduate study in the field; (b) various types of federal employment; (c) work in the state civil service system, particularly as a public health microbiologist; (d) industrial microbiological work in such divergent fields as the pharmaceutical industry, brewing, industrial fermentations and the dairy industry; (e) entrance into medical and dental school (by selecting a small number of additional elective courses); (f) work as a hospital microbiologist; (g) positions as research technicians in various university research projects.

Lower Division *

General Microbiology or Bacteriology	4-5 units
General Botany or Zoology	4-5 units
General Chemistry	10 units
Organic Chemistry (lecture)	3 units
Chemistry (Quantitative Analysis)	3 units
Physics	4 units

Upper Division

Microbiology 103A-B—Medical Bacteriology	5 units
Microbiology 105—Viruses	2 units
Microbiology 121—Serology	3 units
Microbiology 128—Microbial Physiology	2 units
Chemistry 108A-B—Biochemistry	4 units
Electives chosen from the following courses	8 units
Microbiology 122—Hematology (3)	
Microbiology 123—Parasitology (3)	
Microbiology 127—Medical Mycology (2)	
Public Health 120—Sanitary Bacteriology (4)	
Zoology 105—Embryology (4)	
Biological Science 126—Histological Methods (3)	

Major in Zoology

The major program in zoology is designed to provide a broad training in animal biology. Graduation with such a major in zoology qualifies a student for (a) graduate study in the field; (b) entrance into medical and dental schools (if additional work in chemistry and physics is elected); (c) employment in federal and state civil service, particularly in fish and game work and in park service; (d) employment in certain types of industrial laboratories such as the pharmaceutical houses; (e) positions as technicians in university research projects; (f) natural history museum work.

* Students desiring to continue toward a graduate degree should elect the following additional lower division courses: organic chemistry laboratory, a second semester of physics (4 units), general physiology, and mathematics (to include some calculus).

Lower Division

General Botany	4-5 units
General Chemistry	5 units
Organic Chemistry	3 units
General Zoology	5-8 units
Electives chosen from the following fields.....	7-11 units

Botany, Chemistry, Geology, Mathematics, Microbiology, Physics, Zoology. A minimum of 28 units should be taken in the lower division.

Upper Division

Biological Science 110—Genetics	2 units
Zoology 105—Embryology	4 units
Zoology 106—Comparative Anatomy	4 units
Zoology 132—Invertebrate Zoology	4 units
Zoology electives chosen from the following	4 units

- Zoology 107A-B—Mammalogy (2-2)
- Zoology 123A-B—Birds of California (2-2)
- Zoology 128—Arthropod Vectors (3)
- Zoology 129—Marine Zoology (3)
- Zoology 130—Principles of Animal Ecology (3)
- Zoology 131—Cold-blooded Vertebrates (3)
- Zoology 133—Animal Histology (4)
- Zoology 190A-B—Seminar (1-1)
- Zoology 199—Independent Study (1-3)

Electives chosen from the following fields..... 6 units

Biological Science (other than Biological Science 100), Botany, Chemistry, Geology, Mathematics, Microbiology, and Physics.

Major in Biological Science

The biological science major is designed primarily for students who desire a broad training in the biological sciences rather than the more highly specialized programs required for majors in botany, microbiology, or zoology.

Lower Division

General Botany	4-5 units
General Chemistry	5 units
General Microbiology *	4 units
General Zoology	4-5 units
Electives chosen from the following fields.....	6-8 units

Chemistry, Geology, Mathematics, Physiology, Physics. A minimum of 25 units should be taken in the lower division.

Upper Division

Biological Science 110—Genetics	2 units
Electives chosen from the following botany courses.....	6-7 units

- Botany 103—Plant Classification (3)
- Botany 108—Plant Ecology (3)
- Botany 109—Plant Geography (3)
- Botany 110—Plant Physiology (4)
- Botany 115—Morphology of Vascular Plants (3)
- Botany 116—Morphology of Nonvascular Plants (3)
- Botany 120—Plant Anatomy (4)

* Microbiology 100A-B may be used to satisfy this requirement.

Upper Division—Continued

Electives chosen from the following zoology courses	3-4 units
Zoology 106—Comparative Anatomy (4)	
Zoology 128—Arthropod Vectors (3)	
Zoology 132—Invertebrate Zoology (4)	
Zoology 133—Animal Histology (4)	
Electives chosen from the following zoology courses	2-3 units
Zoology 107 A-B—Mammalogy (2-2)	
Zoology 123 A-B—Birds of California (2-2)	
Zoology 130—Principles of Animal Ecology (3)	
Zoology 131—Cold-blooded Vertebrates (3)	
Electives chosen from the following fields or courses	8-11 units
Biological Science 134, Botany, Conservation, Geology, Microbiology, Nature Study, Public Health 112, 120, Zoology.	
A minimum of 24 units should be taken in the upper division.	

Major in Medical Technology

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

On completion of this major 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.

Lower Division

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

Upper Division

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

General Secondary Teaching Major in Life Science
and General Science

See also pages 122-124 for professional education requirements. A teaching minor in a different teaching field is also required.

Lower Division

General Botany	4-5 units
General Chemistry	5 units
General Microbiology *	4 units
General Physics	3-5 units
Physiology	3 units
General Zoology	4-5 units

Electives chosen from the following fields to total 25 units: Chemistry, Geology, Mathematics, Physics.

Upper Division

Biological Science 110—Genetics	2 units
Botany 103—Plant Classification	3 units
Nature Study 120—Nature in California	3 units
Electives chosen from the following botany courses	3-4 units

- Botany 108—Plant Ecology (3)
- Botany 109—Plant Geography (3)
- Botany 110—Plant Physiology (4)
- Botany 115—Morphology of Vascular Plants (3)
- Botany 116—Morphology of Nonvascular Plants (3)
- Botany 120—Plant Anatomy (4)

Electives chosen from the following zoology courses

- Zoology 106—Comparative Anatomy (4)
- Zoology 128—Arthropod Vectors (3)
- Zoology 132—Invertebrate Zoology (4)
- Zoology 133—Animal Histology (4)

Electives chosen from the following zoology courses

- Zoology 107 A-B—Mammalogy (2-2)
- Zoology 123 A-B—Birds of California (2-2)
- Zoology 130—Animal Ecology (3)
- Zoology 131—Cold-blooded Vertebrates (3)

Electives chosen from the following courses

- Nature Study 125—Science Materials (3)
- Conservation 141—Conservation of Wildlife (3)
- Conservation 171—Conservation Problems and Practices (3)

Electives chosen from approved courses in biological science or physical science

A minimum of 24 units should be taken in the upper division.

Note: One unit of credit from Natural Science 101, 102 or 103 (post summer session courses) and 2 units from Zoology 143, 144, 145, or 146 (extension courses) may be applied to the 1-4 unit elective requirement above.

Graduate (Fifth Year)

Six units must be selected from "200" courses in the biological sciences and must be approved by a department adviser.

* Microbiology 100A-B may be used to satisfy this requirement.

General Secondary Teaching Minor in Life Science and General Science

See also pages 122-124 for professional education requirements. A teaching major in a different teaching field is also required.

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

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

MASTER OF ARTS DEGREE

The graduate program is built on a broad foundation of undergraduate preparation in the biological sciences and is primarily designed to provide an opportunity for secondary teachers to become more adequately trained. The program requires intensive directed study aimed at breadth of information and depth of understanding.

1. Prerequisite: Bachelor of Arts degree in General Secondary Teaching in Life Science and General Science or the equivalent.
2. Area of concentration
 - a. Approved graduate courses (200 series) in the biological sciences 7 units
 - b. Biological Science 299 3 units
3. Approved courses outside the field of biological sciences..... 6 units
4. Other courses approved in advance by an adviser..... 14 units

COURSES OF INSTRUCTION

BIOLOGICAL SCIENCE

Biological Science 100 is a general education course. Remaining courses are designed for majors or minors in the Biological Sciences and in Life Science and General Science.

100 Survey of Biological Science (3) Fall, Spring

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

110 Genetics (2) Fall, Spring

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

126 Histological Methods (3) Fall

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

134 Evolution (2) Fall

Prerequisites: Year of biology or zoology or the equivalent. Organic evolution, with critical discussion of possible mechanisms involved.

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

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

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

Prerequisite: Major or minor in biological science or equivalent. Historical tracing of man's changing relationship to and concepts of nature. Considers development of scientific methods together with practical and philosophical outcomes.

202 Field and Ecological Biology (2) Spring

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

203 Selected Topics in Cellular Physiology (2) Fall

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

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

Prerequisite: General botany. The classification of flowering plants. Information about the local native and cultivated plants of special value to the teacher of biology and nature study. Lecture one hour; laboratory six hours.

108 Plant Ecology (3) Spring

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

109 Plant Geography (3) Fall

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

110 Plant Physiology (4) Fall

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

111 Economic Plants (3) Fall, Spring

A study of the economic plants of the world with particular emphasis on local conditions.

115 Morphology of Vascular Plants (3) Fall

Prerequisite: General botany. Comparative morphology and reproduction of ferns, fern allies, and seed plants. Lecture one hour; laboratory six hours.

116 Morphology of Nonvascular Plants (3) Spring

Prerequisite: General botany. Life histories, structure, and evolutionary relationships of the principal orders of algae, fungi, and mosses. Lecture one hour; laboratory six hours.

120 Plant Anatomy (4) Fall

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

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

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

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

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

199 Independent Study (1-3) Fall, Spring

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

MICROBIOLOGY

100A Principles of Microbiology (3) Fall, Spring

Prerequisite: College chemistry or consent of instructor. Nature and characteristics of bacteria, yeasts, molds, and viruses; their practical importance to mankind. Not open to students who have had lower division general microbiology. Must be taken concurrently with 100B.

100B Microbiology Laboratory (1) Fall, Spring

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

103A Medical Bacteriology (3) Fall, Spring

Prerequisite: General microbiology or Microbiology 100A-B. Bacteriology, immunology, and transmission of the infectious diseases of man and animals. Must be taken concurrently with 103B.

103B Medical Bacteriology Laboratory (2) Fall, Spring

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

105 Viruses (2) Fall, Spring

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

121 Serology (3) Spring

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

122 Hematology (3) Fall, Spring

Prerequisite: General zoology or course in physiology. Basic principles of hematology; 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) Fall, Spring

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

125 Introduction to Pathology (2) Fall, Spring

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

127 Medical Mycology (2) Fall, Spring

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

128 Microbial Physiology (2) Spring

Prerequisites: General microbiology, organic chemistry. The physiological activities of microorganisms including nutritional requirements, growth, effect of physical environment, metabolic changes in organic and inorganic compounds, biochemical genetics, practical applications.

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

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

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

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

199 Independent Study (1-3) Fall, Spring

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

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

Nature in everyday life, at school, in the home, and in urban environments. Biological and physical principles expressed in seasonal changes, climate, soil, and life habitats involving both domestic and wild plants and animals. Lecture two hours; laboratory three hours; field trips to be arranged.

120 Nature in California (3) Spring

Prerequisite: Course in biological science or Nature Study 118. Scientific acquaintance with birds, mammals, and native vegetation; major associations gained by laboratory study and wide-ranging field trips through Southern California. Lecture two hours; laboratory three hours, field trips to be arranged.

125 Science Materials (3) Spring

The collection, preservation, manufacture, exhibit, and use of science materials, including the maintenance of living things. Lecture two hours; laboratory three hours.

130 Regional Excursions (1-4) Fall, Spring

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

145 Marine and Shore Life (3) Fall

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

PUBLIC HEALTH

Public Health 112 and 120 recommended electives for Biological Science and Medical Technology majors.

103 Biological Foundations of Sanitation (3) Fall

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

105 Physical Principles of Sanitation (3) Fall

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) Spring

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

109 Principles of Sanitary Inspection (3) Spring

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

112 Community Control of Communicable Diseases (3) Spring

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) Fall

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

120 Sanitary Bacteriology (4) Spring

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

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

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

106 Comparative Anatomy (4) Spring

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

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

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

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

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

128 Arthropod Vectors (3) Spring

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

129 Marine Zoology (3) Fall

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

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

130 Principles of Animal Ecology (3) Fall

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

131 Cold-blooded Vertebrates (3) Spring

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

132 Invertebrate Zoology (4) Spring

Prerequisites: General zoology or the equivalent. Characteristics and natural history of the invertebrates. The major groups of animals without backbones arranged in an evolutionary order from single-celled animals to primitive chordates. Emphasizes forms characteristically found in this region. Lecture two hours; laboratory six hours.

133 Animal Histology (4) Spring

Prerequisites: General zoology. The microscopic characteristics of tissues and organs. Mammalian tissue will be emphasized; amphibian tissue used when its simplicity will aid in understanding. Lecture two hours; laboratory six hours.

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

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

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

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

199 Independent Study (1-3) Fall, Spring

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

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

BUSINESS ADMINISTRATION

(In the Division of Business and Economics)

RAMONA-VERMONT CAMPUSES. Simpson (Division Chairman), Allison, Borders, Bright, Buchalter, Chrysler, Codner, Cox, Fiekowsky, Flippo, Francis, Green, Grisafe, Gustafson, Hansen, Hein, Hill, Hoyt, Levenson, Mathy, Moore, Murphy, Norby, Severance, Tuohino, Voris, Whiting. *Part-time*: Collier, Hatchcock, Hodges, Hyman, Lincoln, Mullin, Norrbom, O'Donnell, Rostvold, Stroberg.

SAN FERNANDO VALLEY CAMPUS. Raun (Division Chairman), Blackledge, Dance, Extense, Luther, Krolich, Phillips. *Part-time*: Breckner, Shied.

BACHELOR'S DEGREE CURRICULA

Three baccalaureate majors in business are offered:

- (1) Business Administration (B.S. degree)
- (2) Printing-Management (B.S. degree)
- (3) Business-Education (B.A. degree)

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

I. BUSINESS ADMINISTRATION

All business-administration majors must take a common core of lower and upper division courses. In addition, each student must select one of the following options: accounting; business-arts; business economics and statistics; finance; administrative, industrial, purchasing, or small business management; labor relations; marketing and merchandising; office administration; special business; or transportation and foreign trade.

Lower Division Pre-major Requirements †

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

Upper Division Core Requirements

a. To be completed in the junior year:

Business 100B—Managerial Accounting (3)

Business 106—Production Management (3)

(Students taking Office Administration Option will substitute Business 113—Office Organization and Management—for Business 106.)

Business 109—Applied Business Statistics (3)

Economics 103—Money, Credit, and the Economy (3)

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

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

† This course should be taken in the Mathematics Department. If taken in some other department, Business 91 should be taken at State College.

- b. To be completed in the junior or senior year:
 - Business 103—Business Finance (3)
 - Business 104—Principles of Marketing (3)
 - Business 107—Manpower Relations in Business (3)
 - Business 108—Law of Commerce (5)*
 - Economics 110—Economics of the Business Firm (3)
- c. All business majors are required to take a proficiency test in the use of business machines not later than the end of the second semester in residence. This requirement can be met by taking Business 112 (Business Machines), or by passing the machine-skill test given in Business 109 (Applied Business Statistics), or by passing an examination after the skill has been acquired in the laboratory during free hours with the assistance of the laboratory instructor.

Option 1—Accounting

Develops the technical and professional theories and procedures essential for the Certified Public Accountant, the public accountant, the business accountant, the government accountant, or the teacher of accounting.

ADVISERS:

Ramona Campus: Buchalter, Francis, Grisafe, S. Hansen, Hein, Murphy, Tuohino.

San Fernando Valley Campus: Phillips, Raun.

Core requirements. See page 86	29 units
Business 120A—Intermediate Accounting	3 units
Business 120B—Advanced Accounting	4 units
Business 121A—Federal Tax Accounting	3 units
Business 122—Industrial and Cost Accounting	4 units
Business 124—Auditing	4 units

It is recommended that students in the accounting option select one course from the following:

- Business 121B—Federal Tax Accounting (3)
- Business 123—Specialized Cost Accounting (3)
- Business 125—Corporation Accounting (2)

Training for Certified Public Accountant Examinations

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

Option 2—Business-Arts

Meets the needs of firms desiring business graduates with less specialization. May also be used by students who wish a broader field of concentration at the undergraduate level. Couples the basic business sequence with liberal arts courses.

* Those students who have taken three semester units of business law in the lower division are to take Business 108B (3).

ADVISERS:

Ramona Campus: Hoyt, Norby.

San Fernando Valley Campus: Raun.

Core requirements. See page 86	29 units
English 106A—Pre-professional Writing	3 units
Speech 110—Advanced Public Speaking <i>or</i>	
Speech 111—Persuasive Speaking	3-2 units
Government 157—Constitutional Law	3 units
History 175—Economic History of the United States	3 units
Select one course from the following fields	3 units
English	Philosophy
Geography	Psychology
History	Sociology

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

Option 3—Business Economics and Statistics

Equips the student with the major tools of quantitative analysis needed as a business statistician in the rapidly expanding research departments of business firms or as an executive assistant in moderate-sized and large firms.

ADVISERS:

Ramona Campus: Mathy.

San Fernando Valley Campus: Dance.

Core requirements. See page 86	29 units
Business 122—Industrial and Cost Accounting	4 units
Business 196—Advanced Business Statistics	3 units
Business 149—Market Research <i>or</i>	
Business 167—Quality Control	3 units
Economics 111—National Income Analysis and Business Cycles	3 units
An elective course within Division of Business and Economics or any other area with a demonstrable relationship to the student's career objective, to be selected in consultation with his adviser	3 units

Option 4—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.

ADVISERS:

Ramona Campus: Cox, Hill, Hoyt, Severance.

San Fernando Valley Campus: Phillips.

Core requirements. See page 86	29 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 137—Investment Analysis (3)
- Business 138A—Insurance Principles (3)
- Business 138B—Life Insurance (3)
- Business 138C—Property and Casualty Insurance (3)
- Business 139A—Real Estate Principles (3)
- Business 139B—Real Estate Practice (3)

Option 5—Management

Business management has been divided into a number of specialties. The student may choose from among the following in the management option:

- (A) Administrative
- (B) Industrial
- (C) Labor Relations and Personnel
- (D) Purchasing
- (E) Small Business

A. Administrative

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

ADVISERS:

Ramona Campus: Levenson, Voris.

San Fernando Valley Campus: Blackledge, Luther.

Core requirements. See page 86	29 units
Business 160—Case Studies in Business Management	3 units
Business 161—Executive Control and Administration	3 units
Business 171—Supervision: Principles and Problems	3 units
Business 173—Personnel Management	3 units

Select one course from the following:

- Business 113—Office Organization and Management (3)
- Business 135—Financial Management (3)
- Business 143—Sales Management (3)
- Business 144—Retail Store Management (3)
- Business 148—Public Relations Methods for Business (3)
- Business 154—Traffic Management (3)
- Business 168—Small Business Management (3)
- Business 172—Labor Relations and Collective Bargaining (3)

B. Industrial

Prepares students for factory employment in production control, time and motion study, methods analysis, and related assignments.

ADVISERS:

Ramona Campus: Allison, Voris.

San Fernando Valley Campus: Blackledge, Luther.

Core requirements. See page 86	29 units
Business 160—Case Studies in Business Management	3 units
Business 161—Executive Control and Administration	3 units
Business 163—Motion and Time Study	3 units
Business 164—Production and Material Control	3 units

Select one course from the following:

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

C. Labor Relations and Personnel

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

ADVISERS:

Ramona Campus: Norby.

San Fernando Valley Campus: Dance.

Core requirements. See page 86.....	29 units
Economics 102—Labor Economics	3 units
Business 172—Labor Relations and Collective Bargaining.....	3 units
Business 173—Personnel Management	3 units

Those students with interests in personnel management take:

Business 160—Case Studies in Business Management.....	3 units
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And select one course from the following:

- Business 166—Industrial Accident Control (3)
- Business 169—Applications of Industrial Management (3)
- Business 171—Supervision: Principles and Problems (3)
- Economics 120—Labor Legislation (3)
- Psychology 156—Industrial Psychology (3)

Those students with interests in labor relations take:

Economics 120—Labor Legislation	3 units
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And select one course from the following:

- Business 160—Case Studies in Business Management (3)
- Business 171—Supervision: Principles and Problems (3)
- Psychology 183—Psychology of Labor Relations (3)

D. Purchasing

Prepares the student for employment in the field of purchasing. Stresses the role of the purchasing executive in business and the relationship of purchasing to other business functions.

ADVISERS:

Ramona Campus: Whiting, Voris.

San Fernando Valley Campus: Luther.

Core requirements. See page 86.....	29 units
Business 160—Case Studies in Business Management.....	3 units
Business 164—Production and Material Control.....	3 units
Business 165A—Industrial Purchasing	3 units
Business 165B—Case Studies in Purchasing.....	3 units

Select one course from the following:

- Business 161—Executive Control and Administration (3)
- Business 162—Industrial Equipment and Processes (3)
- Business 167—Quality Control (3)
- Business 169—Application of Industrial Management (3)

E. Small Business

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

ADVISERS:

Ramona Campus: Whiting.

San Fernando Valley Campus: Blackledge.

Core requirements. See page 86.....	29 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 113—Office Organization and Management (3)
- Business 144—Retail Store Management (3)
- Business 155—Motor Transportation Practice (3)
- Business 161—Executive Control and Administration (3)
- Business 173—Personnel Management (3)

Option 6—Marketing and Merchandising

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

ADVISERS:

Ramona Campus: Chrysler, Codner.

San Fernando Valley Campus: Luther.

Core requirements. See page 86.....	29 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 130—Credits and Collections (3)
- Business 143—Sales Management (3)
- Business 144—Retail Store Management (3)
- Business 145—Wholesaling (3)

Option 7—Office Administration
(Formerly Executive Secretarial)

Prepares students to handle secretarial and other office positions of responsibility and to be of assistance to business executives.

ADVISERS:

Ramona Campus: Green, Gustafson.

San Fernando Valley Campus: Extense.

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

Core requirements. See page 86	29 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

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 8—Special Business

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

ADVISERS:

Ramona Campus: Simpson.

San Fernando Valley Campus: Raun.

Core requirements. See page 86	29 units
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Fifteen units in business, economics, and relevant fields to be worked out in conference with the division chairman and appropriate faculty members, depending upon the unique and special objectives of the student.

Option 9—Transportation and Foreign Trade

Prepares a student for positions in either transportation or foreign trade establishments.

ADVISERS:

Ramona Campus: Chrysler.

San Fernando Valley Campus: Luther.

Core requirements. See page 86	29 units
Business 145—Wholesaling	3 units
Economics 106—Principles of International Trade	3 units
Business 153—Principles of Transportation	3 units
Business 154—Traffic Management	3 units

Select one course from the following:

- Business 150—Foreign Trade Practices (3)
- Business 155—Motor Transportation Practices (3)

II. PRINTING MANAGEMENT

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

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

ADVISER:

Ramona Campus: Voris.

Lower Division Requirements

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

Upper Division Requirements

A. Accounting and Finance Courses

Business 100A—Accounting Concepts Survey 5 units

Select one course from the following: 3 units

Business 100B—Managerial Accounting

Business 103—Business Finance

B. Management Courses

Business 106—Production Management 3 units

Business 179—Printing Plant Management 3 units

Select one course from the following: 3 units

Business 113—Office Organization and Management

Business 160—Case Studies in Business Management

Business 168—Small Business Management

Business 171—Supervision: Principles and Problems

C. Marketing Courses

Select one from the following: 3 units

Business 104—Principles of Marketing

Business 130—Credits and Collections

Business 142—Salesmanship

D. Related Business and Economics Courses

Business 108B—Business Law 3 units

Economics 102—Labor Economics 3 units

Select two courses from the following: 6 units

Business 109—Applied Business Statistics

Economics 103—Money, Banking, and the Economy

Economics 110—Economics of the Business Firm

E. Graphic Arts Courses

Business 178A—Typographical Layout and Design 3 units

Business 178B—Typographical Layout and Design 3 units

Business 178C—Printing Estimating 3 units

Students who have not had work experience with a printing concern will be required to complete at least two units of Business 198—Field Assignments and Reports.

III. BUSINESS EDUCATION

Ordinarily business education is offered as a teaching major. Students wishing to qualify for a bachelor's degree in this field should follow the requirements listed below for the special secondary teaching major.

Special Secondary Teaching Major in Business Education

The special secondary credential in business education authorizes the holder to teach in elementary and secondary schools subjects basic to business and commerce, and in addition, the fields of concentration named in the credential. See also pages 123-124 for professional education requirements.

ADVISERS:

Ramona Campus: Green, Gustafson.

San Fernando Valley Campus: Extense.

- A. Six months of practical experience or 1,000 clock hours in a business occupation.
- B. Twenty-five semester hours of work in subjects basic to business and commerce which must include at least one course from each of the following fields:
1. Principles of economics or elements of economics taken in the lower division; Economics 101, Introduction to Economic Analysis (3); *or* Economics 110, Economics of the Business Firm (3).
 2. Business 1; Business 2, Typewriting (2-2).
 3. Principles or elements of accounting taken in lower division; *or* Business 100A, Accounting Concepts Survey (5).
 4. Business law or commercial law taken in lower division; *or* Business 108, Law of Commerce (5).
 5. Introduction to business or business organization taken in lower division; *or* Business 113, Office Organization and Management (3).
 6. Elementary mathematics of accounting and finance or commercial algebra taken in the lower division; *or* Business 101, Business Correspondence (3).
 7. Consumer economics or economic geography taken in the lower division; *or* Geography 141, World Resources (3); *or* Economics 190, Current Economic Problems (3).
 8. Salesmanship, retailing, or marketing taken in lower division; *or* Business 104, Principles of Marketing (3).
- C. 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 Field

Business 100B—Managerial Accounting (3) *or*

Business 120A—Intermediate Accounting (3)

Business 112—Business Machines (2)

Electives from:

Business 120B—Advanced Accounting (4)

Business 121A—Federal Tax Accounting (3)

Business 122—Industrial and Cost Accounting (4)

Business 123—Specialized Cost Accounting (3)

Business 124—Auditing (4)

Secretarial Training Field

*Business 110—Secretarial Techniques and Procedures (3)

†Business 111—Applied Secretarial Practice (3)

Business 112—Business Machines (2)

Suggested Elective:

Business 101—Business Correspondence (3)

Merchandising Field

Business 104—Principles of Marketing (3)

Business 140—Principles of Advertising (3)

Business 142—Salesmanship (3)

Business 143—Sales Management (3)

Business 144—Retail Store Management (3)

Business Management Field

Business 103—Business Finance (3)

Business 108B—Business Law (3)

Business 109—Applied Business Statistics (3)

Business 113—Office Organization and Management (3)

* Adequate typing skill is a prerequisite to Business 110.

† Adequate typing and shorthand skills are prerequisites to Business 111.

- Business 138A—Insurance Principles (3)
- Business 150—Foreign Trade Practices (3)
- Business 153—Principles of Transportation (3)
- Business 160—Case Studies in Business Management (3)
- Business 172—Labor Relations and Collective Bargaining (3)
- Business 173—Personnel Management (3)
- Business 180—Law of Finance (3)
- Business 182—Preventive Law (3)

(Note: If any of the courses listed under "C" above were taken as basic subjects under requirement "B" above, other courses under "C" must be substituted.)

D. The scope and function of business education.

Education 171—Principles of Business Education (3). All students in business education take this introductory course prior to methods and directed teaching in business education. It may be taken concurrently with the *first* methods teaching course in business education.

E. Teaching methods in business education:

1. Education 193Bb—Methods of Teaching Bookkeeping and Related Subjects (2); *or* Education 193Bs—Methods of Teaching Secretarial Subjects (2)
2. Education 193Bt—Methods of Teaching Typewriting (2)

(Note: One of these courses MUST be taken PRIOR to directed teaching in business education.)

F. Applicants for the special secondary credential complete in different semesters, two three-unit assignments in directed teaching in business education in secondary schools.

General Secondary Teaching Major in Business Education

The requirements for the general secondary teaching major in business education are the same as those for the special secondary credential in this field with the exception that a minor and a graduate year are included. See also pages 122-124 for professional education requirements. In addition to a course in methods in the minor, a minimum of one course in methods in business education, Education 193Bb, 193Bs, or 193Bt, is required, and it must be taken PRIOR to directed teaching in the field. The applicant completes one three-unit directed teaching assignment in the major in business education and one in the minor.

General Secondary Teaching Minor in Business Education

See also pages 122-124 for professional education requirements. A general secondary teaching minor must be accompanied by a major in a different teaching field. The minor consists of 20 units of work in business administration and secretarial subjects; 12 of these units must be in upper division, including six units in the same subject field, i.e., accounting, secretarial training, merchandising, or business management. A college course in typewriting or demonstration of adequate skill by examination is required.

MASTER OF SCIENCE DEGREE

Prerequisite for pursuing the master's degree: An undergraduate degree in business administration or economics from an accredited college or university. Students not meeting this prerequisite are required to take courses in Business Administration and Economics to remove these deficiencies before being admitted to the graduate program.

1. Core courses:

(a) Business 200a

Administrative Practices and Human Relations—3 units.

(b) Business 200b

Economic Analysis and Business Operations—3 units.

(c) Business 200c

Quantitative Approach to Managerial Decisions—3 units.

2. Graduate Project. Business 299. 3 units.

3. Additional work selected in conference with the graduate adviser to meet the occupational objectives of the student in the field of accounting, finance, management, marketing, or business economics. 18 units. At least one of these electives must be a course open only to graduate students.

4. Directed field experience or field study. 6 units. (This requirement may be waived for students with adequate prior experience in the occupational field. The adequacy of this prior experience will be determined by the department.)

COURSES OF INSTRUCTION

LOWER DIVISION

Business 1 Beginning Typewriting (2)

Introductory course. Emphasis on correct typewriting technique; instruction and practice in speed and accuracy; problem typing; business letters. Five class hours per week.

Business 2 Advanced Typewriting (2)

Prerequisite: Business 1 or equivalent. Development of improvement in techniques, speed, and accuracy. Practice in letter writing, tabulating, manuscript typing, business forms, and office reports. Five class hours a week.

Business 3 Beginning Shorthand (3)

Introductory course with emphasis on the basic principles of Gregg shorthand and the ability to apply these principles to an extensive shorthand vocabulary. Reading and writing practice in shorthand. Five class hours per week.

Business 4 Advanced Shorthand and Stenography (3)

Prerequisites: Business 3 or equivalent. Emphasis on speed and accuracy in reading and writing Gregg shorthand; transcription training. Review of theory; enlargement of shorthand vocabulary; development of skill in producing mailable typed transcripts, including business letters and articles. Five class hours a week.

Business 91 Applied Business Problems (3) Fall, Spring

Prerequisite: Mathematics 15 or passing grade in mathematics proficiency examination. Important and frequently met problems of business and their solution through applied mathematical and accounting techniques. Problem areas include finance, accounting, marketing, statistics, industrial management, income tax, and similar topics.

UPPER DIVISION**100A Accounting Concepts Survey (5) Fall, Spring**

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

100B Managerial Accounting (3) Fall, Spring

Prerequisite: One year of accounting or Business 100A. An applied course in accounting. Emphasis on the use of accounting information in business decisions, the application of accounting techniques to business operation and control, and accounting for personal use.

101 Business Correspondence (3) Fall, Spring

Prerequisite: Adequate skill in typewriting. Training in composition of business letters; modern trends in business correspondence; problems of management which arise in connection with correspondence; evaluation of letters from representative firms. Practice in dictation and writing of various forms of modern business letters.

103 Business Finance (3) Fall, Spring

Alternative forms of business organization; financial principles and practices related thereto; administration and dissolution of private business corporations; financial promotion, types of securities, expansion, consolidation, merger, and reorganization. Sources and uses of financial information.

104 Principles of Marketing (3) Fall, Spring

The organization and principal operating aspects of our system for distributing goods and services. Retail and wholesale distribution channels, consumer buying characteristics, pricing, marketing of industrial products, particularly purchasing and selling problems involved in industrial marketing and cooperative marketing of agricultural products. Sources and uses of marketing information.

106 Production Management (3) Fall, Spring

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

107 Manpower Relations in Business (3) Fall, Spring

Analysis of the techniques of working together in the business environment. Concentration on motivating forces, communication, individual relationships, group relationships, and training of supervisors. Principles will be discussed and analyzed by studying actual business situations.

108 Law of Commerce (5) Fall, Spring

Prerequisite: Upper division standing. Source of the Law; Courts and Court Procedure. Law of contracts, agency, partnerships, corporations, sales, negotiable instruments, property, securities, bankruptcy, and insolvency. Formation and elements, performance, breach and enforcement of contracts; formation, operation, and termination of agencies, partnerships, and corporations. Creation elements of commercial paper and credit instruments. Real and personal property and security transactions. Insolvency proceedings. Business and legal aspects; rights, duties and obligations arising from same.

108B Business Law (3) Fall, Spring

Prerequisite: 3 semester units of Business Law. 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 (3) Fall, Spring

Prerequisite: Business 91 or consent of adviser. Statistical methods most used by business. Graphic and tabular presentation of data; variation; sampling theory with applications to marketing and industrial problems; business index numbers; time series analysis; trend, seasonal and business cycles, forecasting; simple correlation; basic operation of electric rotary calculators. Four class hours per week.

OFFICE ADMINISTRATION**110 Secretarial Techniques and Procedures (3)**

Modern business office procedures, communication problems, office techniques; filing and indexing systems, duplicating machines, and effective handling of correspondence. Four class meetings per week.

111 Applied Secretarial Practice (3)

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

112 Business Machines (2) Fall, Spring

The uses of several types of office machines, including 10-key and full-keyboard adding machines and key-driven, rotary, and printing calculators. The class is conducted on a rotation plan and meets four hours a week. (May be used to meet the business machines proficiency requirement.)

113 Office Organization and Management (3) Fall, Spring

Office organization, management, and functions; methods used in selecting and training office personnel; office layout and work flow; selection and care of equipment and supplies; simplification of systems and procedures; forms design and control. Case studies and field trips.

ACCOUNTING**120A Intermediate Accounting (3) Fall, Spring**

Prerequisite: One year of accounting or Business 100A. Accounting theory, practice, and problems. Balance sheets, income statements and other financial statements, working papers, valuation of assets, reserves, correction of statements, and application of funds. (Formerly Business 102)

120B Advanced Accounting (4) Fall, Spring

Prerequisite: Business 120A or consent of instructor. Advanced accounting problems and theory. 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. (Formerly Business 120)

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

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

122 Industrial and Cost Accounting (4) Fall, Spring

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

123 Specialized Cost Accounting (3) Fall (Offered 1958-59)

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

124 Auditing (4) Fall, Spring

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

125 Corporation Accounting (2) Spring

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

126 CPA Law Problems and Cases (2) Spring

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

127 Municipal and Governmental Accounting (3) Fall

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

128 CPA Auditing and Theory (2) Fall

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

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

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

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

Business and social role of credit; classes of credit and credit instruments; management of the credit-collection functions; investigation and analysis of credit risks; credit and collection control.

131 Business Fluctuations and Forecasting (3) Fall, Spring

See Economics 135.

132 Investments (3) Fall

Prerequisite: Business 103. Principles of investment, survey of corporate securities, basic risks of investment, individual and institutional programs, principles of investment analysis, and selection of stocks and bonds.

134 Budgeting (3) Spring

Prerequisite: Business 120A. Modern practices and techniques involved in the formulation, enactment, and administration of the budget; relation of budget practices to accounting and scientific management in business and government; preparing the budget; sources for estimates; relation of performance to estimates; analysis and reports for budgetary control.

135 Financial Management (3) Spring

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

137 Investment Analysis (3) Spring

Prerequisite: Business 132 or consent of instructor. Investment practice problems in analysis of financial statements; selection and valuation of stocks and fixed-income securities; stockholder-management relations; applied security analysis.

138A Insurance Principles (3) Fall

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

138B Life Insurance (3) Spring (Offered 1958-59)

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

138C Property and Casualty Insurance (3) Spring (Offered 1957-58)

Prerequisites: Business 138A or consent of instructor. Property insurance with special emphasis on fire, casualty, and allied coverages.

139A Real Estate Principles (3) Spring

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

139B Real Estate Practice (3) Fall

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

See also Economics 133, Public Finance.

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

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

141 Advanced Advertising (3) Spring (Offered 1958-59)

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

142 Salesmanship (3) Fall

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

143 Sales Management (3) Spring

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

144 Retail Store Management (3) Fall

Prerequisites: Business 106 and Business 142. Retailing methods from the standpoint of the owner and manager. Buying, planned stocks, inventory control, markup, accounting for stock control, pricing, style merchandising, and advertising. Emphasis on problems of general management including departmentation, personnel control, supervisory training, store layout and store location.

145 Wholesaling (3) Fall

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

148 Public Relations Methods for Business (3) Spring
(Offered 1957-58)

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

149 Marketing Research Problems (3) Spring

Prerequisites: Business 109 and prior or current registration for Business 143 or consent of instructor. 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, surveys, sales records, and secondary sources; the analysis and interpretation of data, and the preparation of reports.

150 Foreign Trade Practices (3) Spring (Offered 1958-59)

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

153 Principles of Transportation (3) Fall (Offered 1958-59)

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

154 Traffic Management (3) Fall (Offered 1957-58)

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

155 Motor Transportation Practices (3) Spring (Offered 1958-59)

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.

See also Economics 106, Principles of International Trade.

INDUSTRIAL MANAGEMENT

160 Case Studies in Business Management (3) Fall

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

161 Executive Control and Administration (3) Spring

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

162 Industrial Equipment and Processes (3) Fall

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

163 Motion and Time Study (3) Spring

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

164 Production and Material Control (3) Spring

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

165A Industrial Purchasing (3) Spring

Prerequisites: Business 106 and Business 108. 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.

165B Case Studies in Purchasing (3) Fall

Prerequisite: Business 165A. Application of purchasing principles to specific, practical situations. Study and analysis of the experiences of business firms for the purpose of clarifying principles concerning the organization of purchasing departments; relationship with other departments; manufacturing versus buying; negotiation with suppliers; costs; quality.

166 Industrial Accident Control (3) Fall (Offered 1957-58)

Prerequisites: Business 106 and Business 162 or equivalent. Theory and practice of the workmen's compensation laws of the State of California. 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) Fall

Control of quality of manufactured products by statistical methods. Control charts for variables, fraction defective, defects per unit. Acceptance sampling; single, double, and multiple sampling methods; sampling tables.

168 Small Business Management (3) Spring

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

169 Applications of Industrial Management (3) Fall, Spring

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

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

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

172 Labor Relations and Collective Bargaining (3) Spring

Relations between employers and employees as the latter are represented by organized labor. Collective bargaining as it relates to recognition, wages, hours, working conditions, grievance procedure, seniority, health and safety, etc., and the impact of the law upon these.

173 Personnel Management (3) Spring

Prerequisites: Economics 102 and Business 106, or consent of instructor. Principles, methods, and procedures related to the effective utiliza-

tion 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.

177 Business Policy (3) Fall, Spring

Prerequisite: Second semester seniors only. Integration of the principles and policies of business management from the fields of accounting, economics, marketing, finance, statistics, and management in the solution of broad company problems and in the establishment of company policy. Emphasis on the interaction of disciplines in the efficient administration of a business.

See also Economics 120, Labor Legislation.

PRINTING MANAGEMENT

178A Typographic Layout and Design (3) Fall

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

178B Typographic Layout and Design (3) Spring

Prerequisite: Business 178A. A continuation of Business 178A with stress upon the layout and design of complete projects. Use of working dummies to illustrate the problems of printing production. The basic elements of book design.

178C Printing Estimating (3) Fall (Offered 1958-59)

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

179 Printing Plant Management (3) Spring (Offered 1958-59)

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

LAW AND GOVERNMENT REGULATION

180 Law of Finance (3) Spring

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

181 Law of Real Estate (3) Fall

Legal and business aspects of real property ownership and management. Emphasis on California law affecting escrows, community property, conveyances, trust deeds, mortgages, acquisition of titles, easements, leases, land contracts, brokerage, and homesteads.

182 Preventive Law (3) Fall (Offered 1958-59)

The 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. Open to students in all departments of the college.

185 Business and Government (3) Fall (Offered 1958-59)

Significant points of contact between business and government; the necessity for thoroughly understanding everyday relationships with public authority; analysis of antitrust laws, fair trade laws, and unfair trade practices.

See also Economics 105, Economics of Price Regulation.

GENERAL BUSINESS**192A Accounting Reports (2) Fall**

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

192B Accounting Systems (2) Fall

Prerequisite: Successful completion of 18 units of accounting and consent of instructor. The techniques involved in the coordination, design, installation, and control of accounting systems. Special emphasis 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 required of each student.

193 Problems of the Controller (3) Fall

Prerequisite: Senior standing and consent of instructor. Survey of the responsibilities of the chief accounting officer. Accounting control of operations, effective methods of presenting accounting reports, and proper administration of the controller's department. Case studies.

194 Electronic Systems and Equipment (3) Fall

Prerequisites: Business 120 and Business 122. Recent developments in electronic computers, and the application of these computers for accounting control. Types of computer systems. Administrative prob-

lems experienced in the selection and installation of computers. Scientific computation of accounting data. The auditor and electronic data. Case studies.

195 **Electronic Programing (3) Spring**

Prerequisites: Business 120, Business 122, Business 124, and Business 194. Problems of programing, scheduling, and feedback of accounting data under an integrated electronic system. Programing typical clerical operations. The role of operations research. Case studies.

196 **Advanced Business and Economic Statistics (3) Spring**

Prerequisite: Business 109 or Business 167. Analysis of variance; multiple and partial correlation; recent advances in time-series analysis. Techniques of sample survey construction: stratification, multi-stage sampling, optimum allocation of resources. Estimates of various population characteristics from such samples.

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

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

199 **Independent Study (1-3) Fall, Spring**

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

GRADUATE COURSES

200a **Administrative Practices and Human Relations (3)**

Prerequisite: Business 106 or Business 160. Case studies of human relations problems confronting business administrators. Concepts which can be used to solve the problems confronting the individual in leading people or participating in group actions.

200b **Economic Analysis and Business Operations (3)**

Prerequisite: Economics 110. Provision for utilizing the tools, concepts, and factual data of the economist in specific problems of business operations. Application of principles, analytical tools, and sources of economic information to practical business situations by means of the case method.

200c **Quantitative Approach to Managerial Decisions (3)**

Prerequisite: Business 100A and 109. Business 100B recommended. Use of quantitative information provided from accounting and statistical sources in arriving at solutions to complex business problems. Construction and application of controls over financial, manufacturing, and dis-

tributive activities. Quantitative method applied to problems of alternative choices of investment. Emphasis on recognition and definition of problem, where and how to get information, and how to organize, synthesize, and interpret information.

202 Accounting Theory and Analysis (5)

Prerequisite: Bachelor's degree in Business Administration based on major 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. Conditions causing various financial problems with special emphasis upon the analysis and practices involved in their solution. Current problems in finance; critical reviews of the analysis of, and solutions to, financial problems prepared by members of the class.

204 Contemporary Marketing Problems (5)

Prerequisites: Business 144, 145, 149. An advanced case approach to marketing problems. Analysis of influences on the consumer, marketing structures, distribution channels, brand and price policies, sales programs, and sales executive problems. Emphasis 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 of the policy and operational problems of industrial organization. Analysis of case material and current management problems, contributed by industrial executives. Includes meetings with representatives of industrial establishments.

299 Graduate Project (3)

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

ECONOMICS

(In the Division of Business and Economics)

RAMONA-VERMONT CAMPUSES: Mathy (Department Head), Bright, Cox, Hill, Fiekowsky, Moore, Norby, Simpson. *Part time*: Cooke.

SAN FERNANDO VALLEY CAMPUS: Dance, Krolich. *Part time*: Breckner.

BACHELOR'S DEGREE CURRICULUM

Major in Economics

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

Lower Division

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

Upper Division *

Economics 103 †—Money, Banking, and the Economy	3 units
Economics 110—Economics of the Business Firm	3 units
Economics 111—National Income Analysis and Business Cycles	3 units
Business 109—Applied Business Statistics	3 units
Social Science 150—Scientific Method and Logic	3 units
Electives in the field of Economics and selected Business Administration courses to be chosen in consultation with the student's adviser	12 units

MASTER OF ARTS DEGREE

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

1. Social Science 250A	3 units
2. Approved graduate "200" courses in the field of economics	9 units
3. Approved courses in the field of economics, to include Economics 299, Graduate Project ‡	6 units
4. Comprehensive oral and written examinations in the field of economics	
5. Approved courses outside the area of economics	6 units
6. Electives	6 units

* It is recommended that Economics 103, Business 103 and 109, and Social Science 150 be taken in the junior year.

† Those who have taken a lower division course in Money and Banking will take Economics 130 (Monetary Management) or another upper division course to be selected in conference with a major adviser.

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

COURSES OF INSTRUCTION

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

101 Introduction to Economic Analysis (3) Fall, Spring

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

102 Labor Economics (3) Fall, Spring

Use of labor resources in the economic system; employment, wage rates, the development of unions and collective bargaining; labor legislation.

103 Money, Banking, and the Economy (3) Fall, Spring

The nature and flow of money and credit; influence on prices, production, and employment. The commercial and Federal Reserve banking systems and the level of national income. Fluctuations in economic activity and proposals for economic stability.

105 Economics of Price Regulation (3) Spring (Offered 1958-59)

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

106 Principles of International Trade (3) Fall

Economic bases and mechanisms of international commercial relations; government policies on tariffs, exchange controls, subsidies.

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

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

111 National Income Analysis and Business Cycles (3) Fall

Prerequisite: Economics 103. Analysis of factors affecting the size of the national income, the level of employment, and the general state of business. Measurement of national income. Examination of the various theories of the business cycle. Study of current policies and proposals for moderating cyclical fluctuations.

112 Development of Economic Thought (3) Spring (Offered 1958-59)

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

120 Labor Legislation (3) Fall

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

130 Monetary Management (3) Spring (Offered 1958-59)

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.

133 Public Finance (3) Fall

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

135 Economic Fluctuations (3) Fall, Spring

Prerequisite: Economics 103. Analysis of variations in business activity and the national income; survey of various theories advanced to account for these variations; analysis of proposals for reducing fluctuations.

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

171 Economic History of the United States (3) Spring

Historical survey of American economic development to the present, particularly industrialization and national legislation in the fields of industry and commerce. (Same as History 175.)

172 Economic History of Europe (3) Fall

Examination of the economic development of Europe in modern times, with special attention to the industrial revolution and its effects. (Same as History 148.)

180 Comparative Economic Systems (3) Fall (Offered 1957-58)

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

190 Current Economic Problems (3) Spring (Offered 1957-58)

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

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

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

199 Independent Study (1-3) Fall, Spring

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

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

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

211 Contemporary Economic Theory (5) Spring

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

299 Graduate Project (3)

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

ADVISEMENT

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

As early as possible each student should request an evaluation which will list the requirements for the credential and/or the degree sought. Any student seeking more than one credential must have an evaluation for each credential. Application for evaluations is made at the Office of Admissions, Administration Building. The evaluation will serve as a guide for the student and the adviser in planning a complete program. Any deviation from this official evaluation should be approved through petitions signed by the department head. 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 within the past 50 years.

EDUCATION

RAMONA-VERMONT CAMPUSES: Sando (Division Chairman), Adams, Ames, Bany, Benedetti, Better, Bidna, Bilovsky, Bishop, Bonura, Brown, Butt, Cappa, Cheresh, Cowan, Dahl, Diaz, Foley, Forbes, Gellermann, Gilmore, Hahn, Hall, Hanson, Hatcher, Henry, Hone, Hoover, Horner, Jeffers, Jepsen, Johnson, Jones, Kibby, Kriegel, Lallas, Langston, Lodge, Lorbeer, Lord, Marcum, Mortensen, Neale, Nelson, Palmer, Pearce, Peckham, Pitts, Preston, Prindiville, Rhodes, Roth, Samson, Scheffskey, Schubert, Schwartz, Schweiring, Shepherd, Sstrom, Smallenburg, Smith, Sparks, Speery, Stewart, Strobel, Timson, Tonge, Tozier, VanWinkle, Wagstaff, Wandt, Williamson, E. Wilson, M. Wilson.

SAN FERNANDO VALLEY CAMPUS: Sando (Division Chairman), Bostwick, Brady, Brockman, Dible, Gowan, Henderson, Kennedy, Klingbeil, Kudrna, McIntire, Roche, Smurthwaite, Soyster, Winn.

ORGANIZATION

The Division of Education administers the following programs on the campus designated:

Ramona-Vermont Campuses

Elementary Education (Department Head, Cappa)

Secondary Education (Department Head, Dahl)

Special Education (Coordinator, Lord)

Administration and Supervision (Coordinator, Tozier)

Guidance and Pupil Personnel Services (Coordinator, Mortensen)

San Fernando Valley Campus

Elementary Education

Secondary Education (Department Head, Bostwick)

Administration and Supervision (Coordinator, McIntire)

ADVISEMENT

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

As early as possible each student should request an evaluation which will list the requirements for the credential and/or the degree sought. Any student seeking more than one credential must have an evaluation for each credential. Application for evaluations is made at the Office of Admissions, Administration Building. The evaluation will serve as a guide for the student and the adviser in planning a complete program. Any deviation from this official evaluation should be approved through petitions signed by the department head. 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 within the past 20 years.

CREDENTIALS

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

1. Elementary Education
 - a. General Elementary Credential, see page 119.
 - b. Kindergarten-Primary Credential, see page 120.
2. Secondary Education
 - a. Junior High School Credentials, see page 122.
 - b. General Secondary Credential, see page 122.
 - c. Special Secondary Credential, see page 123.
 - Art, see page 63 and page 124.
 - Business Education, see page 93 and page 124.
 - Industrial Arts, see page 124 and page 193.
 - Limited Part-time in Industrial Arts, see page 124 and page 193.
 - Music, see page 124 and page 210.
 - Nursing Education, see page 124 and page 219.
 - Physical Education, see page 124 and page 224.
3. Special Education

Credential to Teach Exceptional Children with specializations in the following area:

 - Visually Handicapped, see page 126.
 - Deaf or Hard of Hearing in Special Day Classes, see page 127.
 - Speech Correction and Lip Reading in Remedial Classes, see page 125.
 - Mentally Retarded, see page 126.
 - Orthopedically Handicapped Including the Cerebral Palsied, see page 126.
4. Administration and Supervision
 - a. Elementary Administration Credential, see page 129.
 - b. Elementary Supervision Credential, see page 129.
 - c. Secondary Administration Credential, see page 130.
 - d. Secondary Supervision Credential, see page 130.
 - e. Special Subject Supervision Credential, see page 130.
5. General Pupil Personnel Services Credential, see page 132.

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

Homemaking, see pages 122 and 188.

Health and Development Credential—School Nurse, see page 133.

ADMISSION TO TEACHER EDUCATION

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

A candidate working for a regular teaching credential should enroll in Education 100 during his first semester at Los Angeles State College. Through this course he will complete the following tests required for admission to teacher education.

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

In addition, he must demonstrate evidence of:

1. Scholarship. A grade point average of 2.25 is expected of elementary credential candidates and of 2.5 for secondary credential candidates. Grades in all education courses must be "C" or better.
2. Academic and Cultural Preparation. Competency is required in all subjects and skills commonly taught in the public school. Elementary credential candidates are urged to include at least 3 units in both art and music in their lower division program. Some skill in playing the piano is recommended for all elementary credential candidates and is required of all kindergarten-primary credential candidates.
3. Personal Fitness. The student must demonstrate personal qualifications in keeping with professional standards. Attention will be directed to general appearance, poise, dress, vitality, temperament, integrity, and general social attitude. Evaluation of personal qualifications may require rating by instructors at Los Angeles State College and possibly an interview by a selected committee.

DIRECTED TEACHING

Directed teaching is one of the most important aspects of the program of teacher education at Los Angeles State College. 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 2.25 for the elementary credential and a 2.5 for the secondary credential and all special education credentials.
3. A grade of "C" or better in all education courses. Any education course with a grade below "C" must be repeated (or an approved substitute course taken).
4. Completion of Education 100—including satisfactory scores on the fundamentals examination, the writing proficiency test, and the speech test. Education 100 should be taken the first semester at Los Angeles State College.

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

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

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

Provisional Credential Renewal

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

1. The applicant must be a regularly admitted student.
2. The applicant must have completed Education 100 successfully.
3. The applicant must have completed the semester unit requirements established by the State Department of Education, at least six units of which must have been completed at Los Angeles State College.

All requirements set forth by the State Department of Education for the renewal of provisional credentials are the sole responsibility of the candidate. Students are advised to matriculate immediately upon receipt of the first provisional credential and seek advisement from the admissions office and the head of the appropriate department.

7. All secondary directed teaching candidates must be approved by the divisions representing their teaching major and minor.

8. Demonstration of suitable aptitude and fitness for teaching and for adjustment to public school conditions. This factor may be determined by test, interview, and other studies evaluated by committee action.

9. Evidence of personality and character traits in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, cooperativeness, temperament, and integrity.

10. 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 credential will usually do their directed teaching in the graduate year, but depending 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. Because of the amount of time and work required of students in directed teaching, they are encouraged to register their enrollment in no more than 12 units in the semester in which they carry 3 or more units of directed teaching. Heavy out-of-school work loads are strongly discouraged.

Provisional Credential Renewal

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

1. The applicant must be a regularly admitted student.
2. The applicant must have completed Education 100 successfully.
3. The applicant must have completed the semester unit requirements established by the State Department of Education, at least six units of which must have been completed at Los Angeles State College.

ELEMENTARY EDUCATION

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

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

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

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

BACHELOR'S DEGREE CURRICULA

General Elementary Credential (Major and Composite Minor)

Lower Division

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

Upper Division

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

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

1. Art—Select from the following..... 4 units
 - Art 100—Art for Elementary School (2)
 - Art 120—Crafts for Elementary School (2)
 - Art 126—Construction for Elementary Schools (2)
2. Music 4 units
 - Music 103AB—Music for Children (2-2) "A" must be taken before "B."
3. Language Arts—Select from the following..... 3 units
 - English 128—Interpreting Children's Literature (3)
 - Speech 163A—Speech and Dramatic Activities in Elementary School (3)
 - † Speech 163B—Speech Problems in the Classroom (3)

† Students who are seeking, or who plan to seek, a Special Education credential in any area may substitute Speech 134 for Speech 163B in this particular option.

4. Social Studies—Select from the following 3 units
 Geography 101—Survey of the Modern World (3)
 Geography 131—Geography of California (3)
 History 181—The Westward Movement and the West (3)
 History 188—California (3)
5. Physical Education—Select from the following 3 units
 P.E. 120—Physical Education in Elementary Schools (3) (recom-
 mended)
 H. & S.Ed. 150—School Health Education (3)
6. Natural Science—Select from the following 3 units
 * Physical Science 100—Survey of Physical Science (3)
 * Biological Science 100—Survey of Biological Science (3)
 Nature Study 118—Everyday Nature (3)
 Nature Study 120—Nature in California (3)

Kindergarten-Primary Credential (Major and Composite Minor)

Lower Division

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

Upper Division

- Education 100—Introduction to Credential Programs 1 unit
 Education 105AB—Kindergarten-Primary Education 4 units
 Education 112—Principles, Curriculum and Methods in Elementary 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

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

1. Art—Select from the following 4 units
 Art 100—Art for Elementary School (2)
 Art 120—Crafts for Elementary School (2)
 Art 126—Construction for Elementary School (2)
2. Music 4 units
 Music 103AB—Music for Children (2-2)
3. Language Arts—Select from the following 3 units
 English 128—Interpreting Children's Literature (3)
 Speech 163A—Speech and Dramatic Activities in Elementary
 Schools (3)
 † Speech 163B—Speech Problems in the Classroom (3)
4. Social Studies—Select from the following 3 units
 Geography 101—Survey of the Modern World (3)
 Geography 131—Geography of California (3)
 History 181—The Westward Movement and the West (3)
 History 188—California (3)
5. Physical Education—Select from the following 3 units
 P.E. 120—Physical Education in Elementary Schools (3) (recom-
 mended)
 H. & S.Ed. 150—School Health Education (3)

* Check course description for eligibility to enroll.

† Students who are seeking, or who plan to seek, a Special Education credential in any area may substitute Speech 134 for Speech 163B in this particular option.

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)

* Check course description for eligibility to enroll.

Junior High School Credential

By careful planning the candidate may earn the junior high school credential as part of a four-year college program. 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 2.5.
2. Completion of the United States Constitution requirement either through course or examination.
3. Completion of two teaching minors in subject fields commonly taught in the junior high school. In each case approval of the teaching minors must be obtained from the chairman of the division concerned.
4. Completion of the education major listed below:

Education 100—Introduction to Credential Program	1 unit
Education 111—Psychological and Sociological Foundations of Education	2 units
Education 114—Core Course in Secondary Education	3 units
Education 119—Foundations of Counseling and Guidance	3 units
Education 147—Audio-Visual Instruction	3 units
Education 167—Methods in first teaching field	3 units
Methods in second teaching field	3 units
Education 151A—Problems in Secondary Teaching	3 units
Education 151—Directed Teaching	6 units

General Secondary Credential

The general secondary credential is a five-year program requiring at least 30 units beyond the bachelor's degree. A student working for a general secondary credential should earn a degree with a teaching major and a teaching minor. A student who has a major in a field not commonly taught in high school may use two teaching minors from the approved list. In addition the candidate must meet the professional education requirements outlined below:

1. Completion of a bachelor's degree from an accredited college or university with a grade point average of at least 2.5 including a program of general education as follows:
 - a. 40 units of general education * with a minimum of 6 semester units in each of the following four areas:
 - (1) Science and mathematics;
 - (2) The practical arts and the fine arts such as art, music, physical education, and health;
 - (3) Social studies;
 - (4) The communicative arts such as languages, literature, and speech.
2. Completion of the United States Constitution requirement, either through course or examination.
3. Completion of a minimum of 30 units of upper division and graduate courses after receipt of the bachelor's degree, including at least 6 units in subject fields commonly taught in junior and senior high school.
4. Completion of an approved teaching major and of an approved teaching minor. *Approval of the teaching major and the teaching minor must be obtained in each case from the chairman of the division concerned.* Majors and minors in the teaching fields shall be selected from the subject fields listed below:

Art, see page 64.

Business Education, see page 93.

English, see page 161.

Foreign Languages, see page 258.

Health Education, see page 180.

Homemaking, see page 188.

Industrial Arts, see page 194.

Language Arts, see page 202.

Life Science and General Science, see page 76.

Mathematics, see page 206.

Music, see page 210.

Physical Education, see page 224.

Physical Science and General Science, see page 230.

Social Studies, see page 251.

Speech and Drama, see page 263.

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

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

Special Secondary Credential

The special secondary credential in subject fields is ordinarily earned during a four-year program. It requires no work beyond the bachelor's

* This 40-unit general requirement is completed when a student meets the graduation requirements outlined on pages 53-54.

degree. No minor is required. The requirements including approved subject fields for teaching majors are outlined below:

1. Completion of a bachelor's degree from an accredited college or university with a grade point average of at least 2.5 including a program of general education as follows:
 - a. Limited part-time industrial arts and nursing education require no general education.
 - b. Art, industrial arts, and music require 16 semester hours of general education.
 - c. Business education, physical education, and homemaking require 40 semester hours of general education.
2. Completion of the United States Constitution requirement, either through course or examination.
3. Completion of an approved teaching major from one of the following fields:

Art, see page 63.

Business Education, see page 93.

Homemaking, see page 188.

Industrial Arts, see page 193.

Limited Part-time Credential in Industrial Arts Education, see page 193.

Music, see page 210.

Nursing Education, see page 219.

Physical Education, see page 224.

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

4. Completion of the following courses * in education:

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

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

SPECIAL EDUCATION

Credential to Teach Exceptional Children

Curricula in special education are designed to prepare teachers for service to California's exceptional children; that is, children who deviate sufficiently from the physically and mentally normal to require special instruction or special services. Expanding programs in the State require approximately 800 new teachers each year.

All applicants for credentials to teach exceptional children must possess a valid regular teaching credential of the kindergarten-primary, general elementary, junior high school, or general secondary type; except that an applicant for a credential to teach, in special day classes, exceptional children who are deaf or severely hard of hearing may substitute for the valid regular teaching document an acceptable bachelor's degree and 10 semester hours of acceptable professional work in education required for a regular general teaching credential.

All credentials to teach exceptional children permit service at both elementary and high school levels. Students who do not hold a regular credential may complete the requirements for both the regular and special education credential concurrently. To avoid programing problems, students are advised to consult the coordinator of special education early in their program.

The courses as outlined in the following credential programs incorporate units of work relating to guidance and counseling handicapped which are designed to meet the requirement in this area of study.

The credentials outlined here are based upon the code requirements as revised in September, 1955. Students who started on a credential program prior to this date have two years to complete the old requirements.

Speech Correction and Lipreading

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

* Education 100—Introduction to Credential Programs.....	1 unit
Psychology 188—Psychology and Education of Exceptional Children.....	3 units
Speech 134—Introduction to Speech Therapy.....	3 units
Speech 131—American Phonetics.....	3 units
Speech 135—Advanced Therapy.....	3 units
Education 196A—Hearing and Its Measurement.....	3 units
Education 196B—Aural Rehabilitation.....	3 units
Education 120—Speech Reading.....	2 units
Speech 136AB—Clinical Practice in Speech and Hearing.....	2 units
Audiology 151—Hearing Clinic.....	2 units
Education 351—Directed Teaching.....	4 units

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

Visually Handicapped

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

* Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of Exceptional Children	3 units
Speech 134—Introduction to Speech Therapy	3 units
Education 164—Introduction to Vision	3 units
Education 162—Braille	3 units
Education 167V—Education of Children with Impaired Vision	3 units
Education 349V—Observation of Visually Handicapped	1 unit
Education 351V—Directed Teaching	4 units
Skill in typing by touch system is required.	
Electives to complete 24 units.	

Orthopedically Handicapped

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

* Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of Exceptional Children	3 units
Speech 134—Introduction to Speech Therapy	3 units
Speech 137—Speech Problems in Cerebral Palsy	3 units
Education 123—Survey of Physical Defects	3 units
Education 167C—Methods of Teaching Crippled Children	3 units
Art 150—Art Experience for Exceptional Children	2 units
Education 351C—Directed Teaching	4 units
Electives to complete 24 units.	

Mentally Retarded

* Education 100—Introduction to Credential Programs	1 unit
Education 188—Psychology and Education of Exceptional Children	3 units
Speech 134—Introduction to Speech Therapy	3 units
Psychology 106—Mental Deficiency	3 units
Art 150—Art Experiences for Exceptional Children	2 units
Education 167MR—Methods of Teaching Mentally Retarded	3 units
Education 349MR—Observation of Mentally Retarded	1 unit
Education 351MR—Directed Teaching	4 units
Electives to complete 24 units.	

Applicants preparing to teach severely retarded children should include the following preparation which may be completed as electives or as partial substitution for the above requirements: psychology and education of brain-injured children with an overview of clinical types of mental deficiency; music and rhythms for severely mentally retarded; kindergarten and primary methods; field work with severely mentally retarded children; and parent counseling.

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

Deaf and Severely Hard of Hearing

A credential to teach deaf children may be earned in two ways: (1) as a second credential for teachers holding a regular credential, (2) as a part of a baccalaureate program which includes the special education requirements and 10 hours of professional education. The requirements for each of these options are outlined below.

Option 1—For Applicants Who Possess a Regular Credential

Education 160A-B—Language for the Deaf	3-3 units
Education 161A-B—Speech for the Deaf	3-3 units
Education 168A—Teaching Elementary School Subjects to Deaf	2 units
Education 196A—Hearing and Its Measurement	3 units
Education 196B—Aural Rehabilitation	3 units
Education 120—Speech Reading	2 units
Education 351D—Directed Teaching	6 units

Option 2—A Baccalaureate Major in the Education of the Deaf Including Credential Requirements

An applicant for the credential to teach deaf and severely hard of hearing in special day classes may substitute for the regular general teaching credential an acceptable bachelor's degree and 10 semester hours of acceptable professional work in education required for a regular general teaching credential. These 10 hours should be selected with the consent of your adviser. The following major leads to a bachelor's degree and a credential to teach the deaf.

Lower Division

No professional courses in education taken at a junior college will be accepted.

Upper Division

All courses listed under Option 1

Education 100—Introduction to Credential Programs (1 unit)

Selected education courses required for regular teaching credential (10 units)

Other Programs in Special Education

Gifted Children

The State has not outlined special credential requirements for teachers of gifted children. Students who are interested are advised to consult the coordinator of special education for suggested courses.

Behavior Problem Children

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

ADMINISTRATION AND SUPERVISION

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

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

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

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

Enrollment

Students enrolling for field work must make application for field work to the Coordinator of Administration and Supervision. Applications must be filed in the office of the coordinator on or before July 1 of the school year in which field work is to be done.

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

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

Elementary Administration Credential

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

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

Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
*Education 270—Organization and Administration of the Elementary School	3 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 279—The Planning, Operation, and Financing of School Building Programs	2 units
Electives selected with the adviser	11 units

(Students studying for an administration or supervision credential should consult requirements for the Master of Arts degree in these areas. Both programs can be carried on at the same time. See page 134.)

Elementary Supervision Credential

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

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

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

* Students who earned credit in Education 270 when it was offered as a 2-unit course must enroll in Education 271, Organization and Administration of Public School Systems, and need not enroll in Education 279.

Secondary Administration Credential

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

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

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

Secondary Supervision Credential

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

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

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

Special Subject Supervision Credential

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

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

Education 102—Growth and Development <i>or</i> Psychology 112—Child Psychology	2-3 units
Education 109—Tests, Measurements, and Evaluation	2 units
Education 207—History and Philosophy of Education	3 units

Education 263—Supervision of Instruction and Curriculum in Elementary Schools <i>or</i>	
Education 264—Supervision of Instruction and Curriculum in Secondary Schools _____	2 units
Education 282—Vocational Guidance _____	3 units

* Students who earned credit in Education 276 when it was offered as a 2-unit course must enroll in Education 271, Administration and Organization of Public School Systems, and need not enroll in Education 279.

to the State Department of Education for the following areas of specialization of the credential: Pupil counseling, welfare and student school psychology; and school psychology. Previous school service credentials in this area are no longer issued initially.

Candidates not holding a master's degree are urged to work currently for a master's degree in guidance, psychology, or sociology. Admission Requirements. Before a student is admitted officially to this program he must be approved by the General Pupil Personnel Services Credential Committee. (He may be admitted simultaneously to the M.A. program in guidance.) Steps are as follows: (a) obtain preliminary advancement; (b) request admission to college, including credit summary; (c) take graduate qualifying examination, at which time the applicant should receive preliminary application forms and an appointment time for interview with the committee; (d) complete interview; (e) receive written notification of action of committee. If approved, the candidate will be assigned to an adviser; and (1) complete program of studies in consultation with adviser.

If the program entails unusual supervised internship, it is essential that prospective candidates complete admission requirements at the beginning of training and that approved candidates maintain a continuous advisory relationship with faculty supervisor.

Field Work. Before a student may take courses meeting the field work requirement, he must (a) be an approved candidate, (b) have completed 12 units of work at this college, and (c) be recommended by adviser and be approved by GPPS Credential Committee.

Credential Requirements

An applicant for this credential shall have completed a specified experience and training program, including the following requirements:

1. A bachelor's degree from an accredited institution.
2. Two years of successful teaching experience, or one year of successful teaching experience and one year of supervised field experience in pupil personnel activities with school-age pupils, or two years of supervised field experience in school social work, school psychology, or school psychology, of which at least one year shall have been in a public school.
3. Completion of a minimum of 30 semester hours of postgraduate work of upper division or graduate level courses including at least one specialized area and supervised internship. (If the student has completed any of the following courses in undergraduate work, other courses shall be selected in consultation with his adviser to meet the units required.)

SCHOOL SERVICE CREDENTIAL

General Pupil Personnel Services Credential

Los Angeles State College is authorized to recommend candidates to the State Department of Education for the following areas of specialization of this credential: Pupil counseling, welfare and attendance, school psychometry, and school psychology. Previous school service credentials in this area are no longer issued initially.

Candidates not holding a master's degree are urged to work concurrently for a master's degree in guidance, psychology, or sociology.

Admission Requirements. Before a student is admitted officially to this program he must be approved by the General Pupil Personnel Services Credential Committee. (He may be admitted simultaneously to the M.A. program in guidance.) Steps are as follows: (a) obtain preliminary advisement; (b) request admission to college, including a credit summary; (c) take graduate qualifying examination, at which time the applicant should receive preliminary application forms and an appointment time for interview with the committee; (d) complete interview; (e) receive written notification of action of committee (if approved, the candidate will be assigned to an adviser); and (f) complete program of studies in consultation with adviser.

As this program centers around supervised internship, it is essential that prospective candidates complete admission requirements at the beginning of training and that approved candidates maintain a continuous advisee-adviser relationship with faculty supervisor.

Field Work. Before a student may take courses meeting the field work requirement, he must (a) be an approved candidate, (b) have completed 12 units of work at this college, and (c) be recommended by adviser and be reapproved by GPPS Credential Committee.

Credential Requirements

An applicant for this credential shall have completed a specified experience and training program, including the following requirements:

1. A bachelor's degree from an accredited institution.
2. Two years of successful teaching experience, or one year of successful teaching experience and one year of supervised field experience in pupil personnel activities with school-age pupils, or two years of supervised field experiences in school social work, school psychometry, or school psychology of which at least one year shall have been in a public school.
3. Completion of a minimum of 30 semester hours of postgraduate work of upper division or graduate level courses, including at least *one* specialized area, and a supervised internship. (If the student has completed any of the following course requirements in undergraduate status, other courses shall be selected in consultation with his adviser to meet the units required.)

General Courses Required

Education 280—Techniques of Counseling <i>or</i>	
Psychology 160—Counseling and Interviewing	3 units
Education 113—Psychological and Sociological Foundations of Education <i>or</i>	
Psychology 108—Mental Hygiene	2 units
Sociology 170—Methods of Social Work	3 units
Education 188—Psychology and Education of the Exceptional Child	3 units
Education 184—School-Family Interpersonal Relations	4 units
Education 186—Laws Relating to Children <i>or</i>	
Sociology 159—Child Welfare	3 units
Education 233—Seminar in Pupil Personnel Services	3 units

4. Completion of courses in at least *one* of the following specialized areas.

a. Pupil Counseling

Education 282—Seminar in Guidance	3 units
Education 286AB—Field Work in Pupil Personnel Services	2-2 units

b. Child Welfare and Attendance

Sociology 175—In-service Training <i>or</i>	
Education 286CD—Field Work in Pupil Personnel Services	4 units
Education 185—Child Welfare and Attendance	3 units

c. School Social Work

Those students coming to Los Angeles State College with a master's degree in social work will be given special assistance in planning courses to satisfy the credential requirements.

d. School Psychometry

Psychology 127D—Psychological Testing (applied to the mentally and physically atypical)	3 units
Psychology 120B—Statistical Methods in Psychology <i>or</i>	
Sociology 164—Social Statistics	3 units
Education 210—Advanced Educational Psychology	3 units

e. School Psychology (this area requires a minimum of 50 postgraduate units)

Psychology 127D—Psychological Testing (applied to the mentally and physically atypical)	3 units
Psychology 120B—Statistical Methods in Psychology <i>or</i>	
Sociology 164—Social Statistics	3 units
Education 210—Advanced Educational Psychology	3 units
Psychology 227—Psychodiagnostic Testing	3 units
Psychology 228A—Methods of Appraising Personality	3 units
Psychology 260—Seminar in Counseling	3 units
Education 135—Diagnosis and Remedial Reading Procedures	3 units
Speech 134—Introduction to Speech Therapy	3 units
Psychology 272—Practicum in Counseling	3 units

5. Final approval of GPPS Credential Committee.

Health and Development Credential—School Nurse

Students wishing to secure this credential should check with the Head of the Nursing Department for the list of required courses. Upon completion of these required courses, the student may secure his credential by direct application to the State Department of Education.

MASTER'S DEGREES IN EDUCATION

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

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

ELEMENTARY TEACHING

1. Prerequisites:
 - a. Graduate standing.
 - b. A general elementary credential (any state).
 - c. One year of successful teaching experience prior to beginning course work in this program.
2. Area of specialization:
 - Select from the following 3 units
 - Education 207—History and Philosophy of Education (3)
 - Education 225—Educational Sociology (3)
 - Select from the following 6 units
 - Education 211A—Mathematics in the Elementary School (2)
 - Education 211B—Social Studies in the Elementary School (2)
 - Education 211C—Reading in the Elementary School (2)
 - Education 211D—Language Arts in the Elementary School (2)
 - Education 211E—Science in the Elementary School (2)
 - Education 230—Advanced Study in Child Development 3 units
 - Education 231—Seminar in Elementary Education 3 units
 - Education 260—Principles and Practices of Curriculum Development 3 units
 - Education 299AB *—Graduate Project 3 units
3. Outside the field of education
Select in consultation with adviser 6 units
4. Electives
Select in consultation with adviser 3 units
5. Comprehensive examination.

ELEMENTARY SCHOOL ADMINISTRATION

1. Prerequisites:
 - a. Graduate standing.
 - b. General elementary teaching credential.
 - c. Three years of successful teaching experience.
 - d. Education 109, Education 130.

* At the discretion of the division chairman a student may take a comprehensive examination in his field in lieu of the graduate project. In this case, a 3-unit course would be substituted for Education 299AB.

2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Elementary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
* Education 270—Organization and Administration of the Elementary School	3 units
Education 272—School Law in California	2 units
Education 273—School Finance and Business Management	3 units
Education 279—Planning, Maintaining and Operating School Buildings	2 units
Education 298—Seminar in Educational Administration <i>or</i>	
Education 299AB—Graduate Project	3 units

3. Outside the field of education

Select in consultation with adviser..... 6 units

4. Comprehensive examination

ELEMENTARY SCHOOL CURRICULUM AND SUPERVISION

1. Prerequisites:

- Graduate standing.
- Valid regular day teaching credential.
- Education 109, Education 130.
- Experience as required by the State for the elementary supervision credential.

2. Area of specialization:

Education 207—History and Philosophy of Education <i>or</i>	
Education 225—Educational Sociology	3 units
Education 231—Seminar in Elementary Education	3 units
Education 260—Principles and Practices of Curriculum Development	3 units
Education 263—Supervision of Instruction and Curriculum in Ele- mentary Schools	2 units
Education 265AB—Field Work in Elementary School Administration and Supervision	4 units
Education 270—Organization and Administration of the Elementary School	3 units
Education 298—Seminar in School Administration and Supervision <i>or</i>	
Education 299AB—Graduate Project	3 units

3. Outside the field of education

Select in consultation with adviser..... 6 units

4. Electives

4 units

5. Comprehensive examination

* Students who earned credit in Education 270 when it was offered as a 2-unit course must enroll in Education 271, Administration and Organization of Public School Systems, and need not enroll in Education 279.

SECONDARY TEACHING

1. Prerequisites:
 - a. Accepted graduate status.
 - b. General secondary credential must be completed prior to or concurrently with the master of arts degree.
 - c. One year of successful teaching experience.
2. Area of specialization:
 - a. Foundations area: two or more courses from the following 6 units
 - Education 207—History and Philosophy of Education (3)
 - Education 225—Educational Sociology (3)
 - Education 230—Advanced Child Growth and Development (3)
 - Education 260—Principles and Practices of Curriculum Development (3)
 - b. Curriculum and Methods area: three or more courses from the following 6 units
 - Education 152—Developmental Reading in the Secondary School (2)
 - Education 247—Advanced Audio-Visual Methods (2)
 - Education 253—The Core Curriculum in Secondary Education (2)
 - Education 254—Problems of High School Students (2)
 - Education 256—Seminar for Beginning Teachers (2)
 - Education 269—Workshop for Training Teachers and Supervisors (2)
 - Education 175—Problems of the Junior High School (2)
 - c. Select one course from the following 3 units
 - Education 299AB—Graduate Project (3)
 - Education 232—Seminar in Secondary Education (3)
3. Outside the field of education to be selected in consultation with adviser 6 units
4. Electives 9 units
5. Comprehensive examination.

SECONDARY TEACHING WITH SPECIALIZATION IN INDUSTRIAL ARTS

1. Prerequisites:

The M.A. candidate must satisfy the same prerequisites as those for the secondary teaching master's degree.
2. Area of Specialization:
 - a. Foundations: one course from the following 3 units
 - Education 207—History and Philosophy of Education (3)
 - Education 225—Educational Sociology (3)
 - Education 230—Advanced Child Growth and Development (3)
 - b. Curriculum and Methods 10-11 units
 - (1) Education area 4-5 units
 - Education 152—Developmental Reading in the Secondary School (2)
 - Education 175—Problems of the Junior High School (2)
 - Education 282—Vocational Guidance (3)
 - (2) Industrial Arts area—*required* 3 units
 - Industrial Arts 205—Supervision and Organization of Industrial Arts Programs (3)

- (3) Industrial Arts area—*elective* 3 units
 Industrial Arts 204—Development, Use, and Evaluation of
 Instructional Aids in Industrial Arts (3)
 Industrial Arts 206—Seminar in Teaching Problems in Industrial Arts (3)
- c. Select one course from the following 3 units
 Education 299AB—Graduate Project (3)
 Education 232—Seminar in Secondary Education (3)
3. Outside the field of education to be selected in consultation with
 adviser* 6 units
4. Electives † 7-8 units
5. Comprehensive examination.

SECONDARY SCHOOL ADMINISTRATION

1. Prerequisites:
 a. Graduate standing.
 b. General secondary teaching credential.
 c. Three years of successful teaching experience.
 d. Education 109, Education 130.
2. Area of specialization:
 Education 207—History and Philosophy of Education *or*
 Education 225—Educational Sociology 3 units
 Education 260—Principles and Practices of Curriculum Development 3 units
 Education 264—Supervision of Instruction and Curriculum in Secondary Schools 2 units
 Education 266AB—Field Work in Secondary School Administration and Supervision 4 units
 Education 272—School Law in California 2 units
 Education 273—School Finance and Business Management 3 units
 ‡ Education 276—Organization and Administration of the Secondary School 3 units
 Education 279—Planning, Maintaining, and Operating School Buildings 2 units
 Education 298—Seminar in School Administration and Supervision *or*
 Education 299AB—Graduate Project 3 units
3. Outside the field of education
 Select in consultation with adviser 6 units
4. Comprehensive examination.

SECONDARY SCHOOL CURRICULUM AND SUPERVISION

1. Prerequisites:
 a. Graduate standing.
 b. Valid regular day teaching credential.
 c. Education 109, Education 130.
 d. Experience as required by the State Department of Education for the secondary supervision credential.

* Students will be advised to utilize these units to take the Seminar in Advanced Industrial Arts Design (Industrial Arts 233) and any "shop course" they may need.

† The "typical" student will probably utilize these units to fulfill requirements for the General Secondary Credential and for the completion of his minor.

‡ Students who earned credit in Education 276 when it was offered as a 2-unit course must enroll in Education 271, Administration and Organization of Public School Systems, and need not enroll in Education 279.

2. Area of specialization:

- | | |
|---|---------|
| Education 207—History and Philosophy of Education <i>or</i> | |
| Education 225—Educational Sociology | 3 units |
| Education 232—Seminar in Secondary Education | 3 units |
| Education 260—Principles and Practices of Curriculum Development | 3 units |
| Education 264—Supervision of Instruction and Curriculum in Secondary Schools | 2 units |
| Education 266AB—Field Work in Secondary School Administration and Supervision | 4 units |
| Education 276—Organization and Administration of the Secondary School | 3 units |
| Education 299AB—Graduate Project <i>or</i> | |
| Education 298—Seminar in School Administration and Supervision | 3 units |
3. Outside the field of education
Select in consultation with adviser..... 6 units
4. Electives 7 units
5. Comprehensive examination.

GUIDANCE

1. Prerequisites:

- Graduate standing.
- Valid regular day teaching credential for public school service.
- Education 130.
- Approval of the Guidance Committee of the Division of Education.
A minimum number of 15 units is required after the student has received approval from the committee.

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 |
3. Outside the field of education
Select in consultation with adviser..... 6 units
4. Electives selected in consultation with adviser..... 8 units
5. Comprehensive examination.

NOTE: In the selection of additional courses for Items 3 and 4 attention is called to the requirements for the General Pupil Personnel Services credential. It is recommended that all course selections be made only in consultation with an adviser.

SPECIAL EDUCATION

1. Prerequisites

- Graduate standing.
- Oral conference prior to acceptance for candidacy.

2. Completion of requirements for California credential in special education in area of candidate's choice.

3. Required courses
 - a. Basic Core 8-11 units
 - Education 188—Psychology and Education of Exceptional Child (or equivalent) (3)
 - Education 234—Seminar in Special Education (3)
 - Education 288—Problems and Practices in Special Education (2)
 - Selected graduate course † (3)
 - b. Select, in consultation with adviser, appropriate offerings from the following 8-13 units
 - Selected courses in area of specialization; graduate seminar in area of specialization; field work.
4. Outside the field of education 6 units

(Courses must be not only outside the Division of Education but also not required on the credential in the candidate's area of specialization.)
5. Electives to complete 30 hours 0-8 units
6. Comprehensive examination.

COURSES OF INSTRUCTION

Prerequisite: Upper division standing for all education courses.

99 Reading Development on the College Level (1) Fall, Spring

Designed to aid the college student who needs to increase his facility with reading. Specific course of study and requirements depend upon diagnosis of causative factors and needs. Admission generally based upon the survey test results, and/or the instructor's approval. (Formerly Education 156.)

100 Introduction to Credential Programs (1) Fall, Spring

Required of all students qualifying for a teaching credential. Fulfills state requirements for selection of students entering teacher credential curricula.

102 Growth and Development (2) Fall, Spring

Prerequisite: General psychology or consent of instructor. Study of the child from 6 to 18 with emphasis on physical, motor, social, intellectual, and emotional growth and development and inter-relatedness of these factors. Observation of children in their work and play. Credit may not be secured for both Education 102 and Psychology 112.

105A-B Kindergarten-Primary Education (2-2) Fall, Spring

Prerequisites: Education 112 and 113. The principles, curriculum, methods, materials, and special problems of the kindergarten and first three grades. For those who intend to specialize at the kindergarten and lower grade level. Required for the kindergarten-primary credential.

106 Principles of Elementary Education (2) Fall, Spring

The modern public school; its history and development; its objectives and operations; its functions as a social agency in the community.

† Qualified students may petition the department head to substitute a graduate project for this requirement.

109 Tests, Measurements and Evaluation (2) Fall, Spring

The construction and use of teacher-made objective examinations; selection and interpretation of standardized tests; elementary statistical techniques; practical approaches to evaluation of the outcomes of instruction.

110 Educational Psychology (3) Fall, Spring

Application of psychological research and theory to the educative process. Major attention 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

Prerequisite: Education 113. The four courses below are provided for transfer students and extended day students only. They duplicate part of the work in Education 112 and credit will not be given for both 111 and 112. They fulfill the methods requirements for the statutory elementary school subjects. Students are urged to take Education 112 rather than 111 except in cases of hardship where it is impossible to take elementary methods in the unified course.

111A Instruction in the Teaching of Mathematics in Elementary Schools (1)

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

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

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

112 Principles, Curriculum and Methods in the Elementary School (8) Fall, Spring

Prerequisite: Education 113. A laboratory course covering the principles, curriculum, methods, and materials of elementary school instruction. Emphasizes modern methods of teaching the elementary school subjects required by the laws of California; includes audio-visual methods. Students observe and participate in selected elementary school classrooms. Required of all candidates for the general elementary credential. (Includes material covered in Education 101, 106, 111ABCD, and 147).

113 Psychological and Sociological Foundations of Education (5) Fall, Spring

Aspects of public school instruction are discussed in view of research and studies in psychology and sociology. 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.

Education 113 is equivalent to Education 102, Education 110, and Psychology 108.

114 Core Course in Secondary Education (5) Fall, Spring

Principles of secondary education in the United States. Philosophy and growth of the secondary school. The functions of the secondary schools in modern society; organization, curriculum, evaluation, and general teaching materials and practices for the secondary schools. Observation of junior and senior high schools.

120 Speech Reading (2) Fall, Spring

Principles and methods of teaching speech reading. Discussion of vocabulary development material and preparation of source collections for various groups.

123 Survey of Physical Defects (3) Fall

The physical defects commonly found among orthopedically handicapped children. Emphasis upon helping teachers understand these disabilities and implications for education and treatment.

130 Fundamentals of Counseling and Guidance (2) Fall, Spring

Prerequisite: Education 113 or equivalent. Provides teachers, supervisors, and administrators a general orientation to those factors involved in better understanding of individual students and in the administration of the student personnel program.

132A-B Problems in Secondary Teaching (1-2) Fall, Spring

Prerequisites: The same as those for directed teaching. To be taken concurrently with directed teaching. Classroom problems arising in connection with student teaching, and over-all problems which arise as a part of a teacher's total school responsibility.

135 Diagnosis and Remedial Reading Procedures (3) Fall, Spring

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

**147 Audio-Visual Instruction—Methods and Techniques (2)
Fall, Spring**

Theories and methods of visual instruction; experience in the utilization of audio-visual aids. Instruction in various projection and recording techniques. (Formerly called Audio-Visual Methods.)

149 The Teacher in the School and Community (3) Fall, Spring

To be taken concurrently with Education 150AB. Provides experiences in home-school-community relationships; the school community and its resources; parent-teacher meetings and conferences; effective practices in human relations; legal, ethical, and professional responsibilities of the teacher; the school curriculum in action. Taught by the

school principal and the college supervisor of the elementary school in which the student teacher is doing his directed teaching. Required for the elementary and kindergarten-primary credentials.

150A-B Directed Teaching in the Elementary Schools (4-4)
Fall, Spring

Directed teaching for the kindergarten-primary and elementary credentials. Prerequisites for elementary or kindergarten-primary majors: Education 112 and 113. The composite minor must also be near completion before directed teaching is attempted.

See detailed section on directed teaching for further prerequisites.

151 Directed Teaching for Junior High School and Special Secondary (3-3) Fall, Spring

Directed teaching for the Junior High School credential and the Special Secondary in subject fields. Ordinarily taken in the last semester of the senior year. All education courses required for the credential must be taken prior to, or concurrent with, directed teaching.

152 Developmental Reading in the Secondary School (2) Fall, Spring

Prerequisite: Possession of a general secondary or junior high school credential, or consent of the instructor. The techniques and procedures for improving and extending the reading habits, skills, and interests of all secondary students.

160A-B Language for the Deaf (3-3) Fall, Spring

Prerequisite: Consent of instructor. Principles and methods of language development with deaf children. Acquisition of language through daily activities; development of materials to be used in the various language areas. (Formerly 2-2 units.)

161A-B Speech for the Deaf (3-3) Fall, Spring

Prerequisite: Consent of instructor. Principles and methods of eliciting meaningful speech from deaf children using tactile-kinesthetic, auditory, and visual senses. (Formerly 2-2 units.)

162 Braille (3) Fall

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 Introduction to Vision (3) Fall

Anatomy, physiology and hygiene of eye; common visual defects found among children; principles of vision screening and problems of adjustment to visual handicaps.

166 Vision Testing (3)

167V Education of Children With Visual Handicaps (3) Spring

Problems of instruction of visually handicapped children: special methods in Braille and sight conservation, curriculum adjustments, classroom problems including social adjustment and recreation.

167MR Methods of Teaching Mentally Retarded (3) Fall, Spring

Recommended prerequisite: Psychology 106. Principles and methods of organizing classes and developing curricula for the mentally retarded child. Practice in developing materials for various levels.

167C Methods of Teaching of Crippled Children (3)

Problems in adjusting the work of the school to the needs of crippled children.

168A Teaching Elementary School Subjects to the Deaf (2) Fall

Prerequisites: (One course in language for the deaf). Problems and techniques of adjusting elementary school curriculum to the needs of deaf children.

168B Teaching Reading to the Deaf (2) Fall

Prerequisite: (One course in language for the deaf). Techniques of teaching reading to deaf children.

169 Teaching Secondary Subjects to Deaf (2) Spring

The special problems of adjusting the secondary school curriculum to the needs of deaf children.

170 Principles and Curriculum in Secondary Education (2)

Secondary education in the United States. Basic principles, aims, and scope, of modern school practices; student-teacher relationships; changing policies in secondary education and in secondary school curriculum.

171 Principles of Business Education (3) Fall, Spring

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

175 Problems in the Junior High School (2) Fall, Spring

Prerequisite: Possession of a junior high school credential, or consent of the instructor. The unique problems of the American junior high school. Designed for junior high school teachers and administrators. Students will work cooperatively to find solutions to their special problems.

176 Methods and Procedures in Teaching Adults (2) Fall, Spring

Effective methods of teaching adults, basic methods of adult education, relationship of subject matter and teaching methods. Lectures, demonstrations, and discussions. Required for the renewal of the special adult education credential.

177 Instructional Aids and Material (2) Spring

Selection and organization of materials appropriate for adult classes; training in the various devices used in audio-visual techniques; discussion of effective use of the teaching materials.

178 Organization, Administration and Supervision of Adult Education (2) Spring

Procedures for administration of classes and schools for adults; the use of community surveys, advisory councils, and other means of relating adult education to community needs.

180 Counseling and Guidance Procedures in Adult Schools (2) Spring

The nature of the problems of adult students; the counselor's place in adult education; practicum in counseling methods and techniques.

181 Curriculum Construction for Adult Classes (2) Fall

Selection and organization of subject matters for mature students; organization of concise teaching units; definition of educational goals; selection of supplementary and reference material.

183 History and Philosophy of Adult Education (2) Spring

Basic principles of adult education; social and philosophical significance of adult education; history and description of the past and present movements in adult education.

184 School-Family Interpersonal Relations (4) Fall, Spring

Prerequisites: Substantial background in educational psychology, psychology, or sociology. The dynamics of family, pupil-teacher, teacher-parent, and pupil-pupil relationships, including the methods and materials of family counseling, group work, home visits, parent conferences, and problems of home and school.

185 Child Welfare and Attendance (3) Fall, Spring

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

186 Laws Relating to Children (3) Fall, Spring

Educational and statutory regulations relating to children.

188 Psychology and Education of the Exceptional Child (3) Fall, Spring

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. Special problems of counseling the handicapped. Credit may not be secured for both Education 188 and Psychology 104.

193 Methods and Materials in Secondary School Subjects (2) Fall, Spring

A series of professional courses intended for prospective secondary school teachers in indicated subject fields. Each course will include consideration of objectives, methods, materials, and problems involved in

teaching in the particular field; observation in junior and senior high school. Each candidate for a secondary credential must complete the appropriate methods course in his major and minor. In general, the methods course should be taken prior to Education 350.

- 193A Methods of Teaching Art.
- 193Bb Methods of Teaching Bookkeeping and Related Subjects.
- 193Bs Methods of Teaching Secretarial Subjects.
- 193Bt Methods of Teaching Typewriting.
- 193FL Methods of Teaching Foreign Language.
- 193HE Methods of Teaching Home Economics.
- 193H&S Methods of Teaching Health and Safety Education.
- 193IA Methods of Teaching Industrial Arts.
- 193LA Methods of Teaching Language Arts.
- 193Ma Methods of Teaching Mathematics.
- 193Mu Methods of Teaching General Music.
- 193MuA Methods of Teaching Instrumental Music. Prerequisites: Music 105A, C, D, and E. (May be taken concurrently.)
- 193MuB Methods of Teaching Choral Music. Prerequisites: Music 161.
- 193MuC Methods of Teaching Elementary Music. Prerequisites: Music 105A, C, and 105D or E.
- 193N Methods of Teaching Nursing Education.
- 193PE Methods of Teaching Physical Education.
- 193Sc Methods of Teaching Science.
- 193SS Methods of Teaching Social Studies.
- 196A Hearing and Its Measurement** (3) Fall, Spring
Anatomy, physiology, and medicine of the ear; theory and technique of pure-tone threshold and screening audiometry; physics of sound as related to hearing measurements. Designed to provide basic knowledge of the auditory problems of the hearing handicapped and to meet the requirements for the public school audiometrist certificate.
- 196B Aural Rehabilitation** (3) Fall, Spring
Prerequisite: Education 196A. Interpretation and use of the audiogram and speech audiometry scores as guides to educational procedures and management; instruction in making full use of residual hearing in remedial programs including knowledge of amplification equipment.
- 196C Practicum in Aural Rehabilitation** (2) Fall, Spring
Problems of use of amplification in remedial programs for children with hearing losses. Characteristics of effective hearing aids; their selection and proper use.
- 198 Field Assignment and Reports** (1-2) Fall, Spring
Prerequisite: Active, approved employment under the work-study program. Analysis and reports of the student's performance; regular group meetings.

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES**207 History and Philosophy of Education (3) Fall, Spring**

Prerequisite: Graduate standing or consent of instructor. Historical development of education with special emphasis upon the growth of the modern American school system. Special attention to the various philosophies that promote and support education at each of its various levels.

210 Advanced Educational Psychology (3) Fall, Spring

Prerequisite: Education 110 or 113 and graduate standing. Recent and outstanding contributions in research, practical experimentation, and theory which apply to the field of educational psychology.

211A Mathematics in the Elementary School (2) Fall

Prerequisite: Experience as an elementary school teacher. Analysis of published research on the teaching and learning of mathematics in the elementary school. Identification of basic principles of instruction in mathematics.

211B Social Studies in the Elementary School (2) Fall, Spring

Prerequisite: Experience as an elementary school teacher. Analysis of published research on the teaching and learning of social studies in the elementary school. Identification of basic principles for teaching the social studies.

211C Reading in the Elementary School (2) Fall, Spring

Prerequisite: Experience as an elementary school teacher. Survey and analysis of published research on the teaching and learning of the reading process. Identification of basic principles for the teaching of reading as verified by research findings.

211D Language Arts in the Elementary School (2) Spring

Prerequisite: Experience as an elementary school teacher. Survey and analysis of published research on the teaching of the language arts (except reading) in the elementary school. Identification of basic principles for the teaching of the language arts in the elementary school.

211E Science in the Elementary School (2) Fall, Spring

Prerequisite: Experience as an elementary school teacher. Analysis of published research in science teaching at the elementary school level. Identification of basic principles for the organization of instruction in science.

225 Educational Sociology (3) Fall, Spring

An application of the insights of the social sciences, especially sociology, to the problems of today's culture-centered school. Areas include: the individual in the group, social classes, the family, the community, politics, school economics, social psychology, and social philosophies.

230 Advanced Study in Child Development (3) Fall, Spring

Prerequisites: Education 102, Education 113 or equivalent, and at least one year's teaching experience. Recent and outstanding contributions in research, practical experimentation, or theory which have important bearing upon the problems of human development; the significance of the developmental approach to the education of children.

231 Seminar in Elementary Education* (3) Spring

Prerequisites: Education 112, Education 113. Survey of the major problems in elementary education. Identification of persistent problems reported in the professional literature and recognized in professional experience; causes of and solutions for these problems. Emphasis on the application of the scientific method, on acquaintance with reliable sources of educational research, and on improvement in cooperative thinking.

232 Seminar in Secondary Education* (3) Fall, Spring

Identification of persistent problems in secondary education and survey of the literature relating to these problems; causes of and solutions for these problems. Emphasis on the application of the scientific method, on acquaintance with reliable sources of educational research, and on improvement in cooperative thinking.

233 Seminar in Pupil Personnel Services (3) Fall, Spring

Prerequisites: Education 109, Education 130. A comprehensive study of pupil personnel services. The organization, administration, and evaluation of school services according to the needs and problems of the pupils.

234 Seminar in Special Education (3) Fall, Spring

Prerequisites: Education 188 or Psychology 104. Review of the scientific investigations relating to the problems of adjustment to physical and mental handicaps. Candidates for the master's degree in special education may take the comprehensive examination at the end of the seminar.

235 Seminar in Mental Retardation (3) Spring

Prerequisite: Psychology 106. Particular attention is given to the learning and adjustment problems of retarded children. Review of studies and investigations. Individual projects and assignments.

* Ordinarily taken by candidates for the master of arts degree during the semester in which the degree requirements are completed.

236 Seminar in Hearing (3)

Technical problems of providing effective rehabilitation of the deaf and hard of hearing; emphasis on review of scientific studies and investigations; critical review of literature.

237 Seminar in Vision (3) (Not offered 1957-58)**247 Advanced Audio-Visual Techniques (2) Spring**

Prerequisite: Education 147. Selection, preparation and utilization of audio-visual aids other than the motion picture. Planned primarily for the classroom teacher. Development of a unit of work using audio-visual aids.

253 The Core Curriculum in Junior and Senior High Schools (2)
Fall, Spring

Prerequisite: Possession of a secondary credential or the consent of the instructor. Designed for teachers in integrated programs involving social studies and language arts. Emphasis on relating the needs of secondary school youth to appropriate course objectives, content, and teaching procedures. Sources and usages of newer teaching aids available. The development of core curriculum plans adaptable to differing levels of ability. Course content, grade placement, and skill development programs in relation to the total secondary curriculum. Trends in the core program.

254 Problems of High School Students (2) Fall, Spring

Prerequisite: Possession of a secondary credential and secondary teaching experience. Designed for practicing junior and senior high school teachers. The typical problem of dating, family relationships, financial planning, military service; special adolescent problems within classrooms as presented by individual teachers.

256 Seminar for Beginning Teachers (2) Fall

Restricted to teachers with less than four years experience. Problems that are met and reported by beginning teachers. Designed to help beginning teachers make a satisfactory start in the schools in which they begin their teaching.

260 Principles and Practices of Curriculum Development (3)
Fall, Spring

Prerequisites: Basic methods courses in elementary and secondary training. Evaluation of curriculum practices, principles of curriculum development, and the structure of curricular materials. Critical examination of curricular trends in light of historical perspective, sociological change, and research in child growth.

263 Supervision of Instruction and Curriculum in Elementary Schools (2) Fall, Spring

Prerequisites: Education 260 and elementary teaching experience. Brief history of the rise and development of supervision; supervision as a part of administration, types of supervisory organizations; principles of supervision and practices which are effective in carrying out these principles.

264 Supervision of Instruction and Curriculum in Secondary Schools (2) Fall, Spring

Prerequisites: Education 260 and secondary teaching experience. Principles and practices of supervision in public high schools.

265A-B Field Work in Elementary School Administration and Supervision (2-2) Year course

Prerequisite: Admission by application. Direct participation in the administrative, supervisory, and curricular aspects of elementary school administration. Provides students qualifying for elementary supervision and administration credentials with 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. Provides students qualifying for secondary supervision and administration credentials with direct experiences and observations comparable to internship in secondary school administration. Field work extends over the entire school year with registration permissible only in the fall semester.

269 Workshop for Training Teachers and Supervisors (2)

Prerequisite: Possession of an elementary and/or secondary credential; service or appointment to serve, as a master teacher, or supervisor of student teachers. Designed to fill the special needs of training teachers responsible for the supervision of student teachers in off-campus schools. Examination of techniques necessary to an effective supervisory program for associate teachers.

270 Organization and Administration of the Elementary School (3) Fall, Spring

Prerequisite: Graduate standing. Legal aspects of federal, state, county, and district school organization; division of responsibility between school boards and administrators; principles and practices of staff organization and personnel administration; special emphasis upon techniques and methods in the organization of the elementary school with

attention given to issues and problems relative to instructional and non-instructional aspects of the elementary school program. (Formerly 2 units.)

271 Organization and Administration of the Public School System (2)

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.

272 School Law in California (2) Fall, Spring

Prerequisite: Graduate standing. Legal aspects of federal, state, county, and district school organization and administration; a consideration of the legal rights, duties, and responsibilities including tort liability of school agencies, certificated and classified employees, and pupils.

273 School Finance and Business Management (3) Fall, Spring

Prerequisite: Graduate standing. Analysis of fundamental principles and rules underlying public school finance, with particular emphasis on California, including the budgeting, accounting, and auditing of district revenue; the fundamentals of business management, embracing purchasing, warehousing, and supply administration. Responsibilities of various school officials and employees.

**276 Organization and Administration of the Secondary School (3)
Fall, Spring**

Prerequisite: Graduate standing. Problems in federal, state, county, and district school organization; division of responsibility between school boards and administrators; principles and practices of staff organization and personnel administration; special emphasis upon principles, techniques, and organization of the secondary school with attention to pertinent issues and problems relative to instructional and noninstructional aspects of the secondary school program. (Formerly 2 units.)

277 Personnel Problems in School Administration (2)

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)

For administrators and teachers. Analyzes characteristics of the community school; relationships between school and community; the school program in relation to community needs; use of community resources.

in school curriculum; influence of community organizations and institutions upon the school, e.g., P.T.A., press, radio, social service clubs, etc.

279 The Planning, Maintaining, and Operating of School Buildings
(2) Fall, Spring

Prerequisites: Graduate standing, and completion of courses in curriculum administration, school organization, and administration. Education planning of school buildings, and the determination of the necessary and adequate plant facilities; selection and treatment of proper school sites; problems of accessibility; population factors; effects of transportation; financing building programs; place of architects, engineers, and builders.

280 Seminar in Techniques of Counseling (3) Fall, Spring

Prerequisite: Consent of instructor. An advanced course in counseling techniques intended primarily for candidates for the master's degree in guidance and prospective or actively engaged school or other counselors. Study of counseling problems and situations. Analysis of recorded interviews. Demonstrations and practice in counseling.

282 Seminar in Guidance (3) Fall, Spring

Prerequisite: Consent of instructor. For M.A. and Pupil Personnel Services Credential candidates. Intensive class discussion of case data, current research, sources of educational, vocational, and personal information, and community agencies needed in connection with problems encountered among age group to be served.

286AB and 286CD Field Work in Pupil Personnel Services (2-2)
Year Course

Prerequisite: Admission by application. Supervised field training in an organized program for those specializing in pupil personnel services at either elementary or secondary level: 286AB for those specializing in guidance; 286CD for those in welfare and attendance.

288 Problems and Practices in Special Education (2) Fall, Spring

For advanced students and administrators of special education programs. Problems of organization, administration, and supervision of various types of special education programs. Evaluation of recent, proposed, and needed legislation. Review of current literature.

298 Seminar in School Administration and Supervision (3)
Fall, Spring

Prerequisites: Completion of at least 20 semester hours of graduate work including all specific requirements for administration and supervision credentials; enrollment permissible only with the consent of instructor. Recommended for all candidates completing the master's program in school administration and supervision. Techniques of educational research involving the selection, definition, and presentation of a problem; the selection, summarization, and evaluation of materials

appropriate to its solution; and the organization of bibliographical references.

299A-B Graduate Project (1-2) Fall, Spring

299A includes (1) an overview of methods of educational investigation and report, and (2) development by the student of a tentative proposal for the master's project. In 299A regular class meetings will be held. In 299B the actual project will be developed with the guidance of a faculty adviser. Students must complete 299A before taking 299B.

349 Observation in Special Education (1) Fall, Spring

Prerequisite: Appropriate base. Observation should be taken concurrently with a methods course. It must be taken before Education 351 unless waived by the Coordinator of Special Education.

Observation with the Deaf.

Observation with the Hard-of-Hearing.

Observation with the Mentally Retarded.

Observation in Speech Correction.

Observation of Visually Handicapped.

350 Directed Teaching for General Secondary (3-3) Fall, Spring

Prerequisites: The following courses must be taken prior to, or concurrently with, directed teaching: Education 100, 113, 114, 130, 147, 193, and 132. See the detailed section on directed teaching for other prerequisites. Directed teaching is the culminating experience in the prospective teacher's professional training. Directed teaching is done under the daily supervision and guidance of a qualified training teacher regularly employed in secondary teaching. A designated member of the college staff also assists in general supervision and counseling. Both city and county schools cooperate in the directed teaching program.

351 Directed Teaching in Special Education (4-6) Fall, Spring

See detailed section on directed teaching for a description of the criteria for admission to directed teaching (pages 116 to 118). Directed teaching is the culminating experience in the professional training sequence. The experience is under the daily supervision and guidance of a 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)

RAMONA-VERMONT CAMPUSES: Cromwell (Acting Department Head), Andres, Eggers, Plumtree, Storch. *Part-time*: Baer, Court, Doberne, Flynn, Geselbracht, Hayworth, Hirsch, Johnson, Lane, MacDonaugh, Madick, Silver, Solomon, Sonderling, Soule.

To meet the needs of industry for technically trained personnel, the Los Angeles State College offers a broad general engineering program leading to a B.S. in engineering.

The courses offered in the Engineering Department are designed primarily to prepare students for positions in production, construction, communication, management, and sales engineering.

Training is provided in the basic sciences and in engineering methods, processes, materials, machinery, and structures. Classroom instruction is supplemented by practical engineering experience in the work-study program which is an integral part of the engineering curriculum.

BACHELOR'S DEGREE CURRICULUM

All students are required to take a common core of lower and upper division courses. Technical electives offered in the senior year permit choice of engineering subjects suited to the vocational objectives of the students.

Lower Division Requirements

Mathematics (to include College Algebra, Analytic Geometry, and two courses in Calculus).....	12 units
Physics (to include Mechanics, Magnetism and Electricity, Light and Sound).....	10 units
Chemistry	5 units
Descriptive Geometry	3 units
Drawing (Engineering)	2 units
Materials of Construction.....	3 units
*Manufacturing Processes (or equivalent).....	3 units
	38 units

Students are advised to take, in addition, the applicable course in their area of specialization. Mechanical or Production areas, *Machine Drafting*. Electrical area, *Electrical Drafting*. Construction area, *Plane Surveying* (6 units). Plumbing area, *Architectural Drawing*.

Upper Division Requirements

Required courses (35 units)

Electrical Group

Engr. 100A—Electric Circuits	3 units
Engr. 100B—Electric Machines	3 units
Engr. 107—Basic Electronics	3 units

* Surveying can be applied for this requirement.

Mechanics Group

Engr. 102A—Engineering Mechanics (Statics)	3 units
Engr. 102B—Engineering Mechanics (Dynamics)	3 units
Engr. 101—Strength of Materials	3 units
Engr. 103—Fluid Mechanics	3 units

Thermodynamics Group

Engr. 105A—Thermodynamics	3 units
Engr. 105B—Applied Thermodynamics	3 units

Laboratories

Engr. 110A—Electric Circuits Laboratory	1 unit
Engr. 110B—Electric Machines Laboratory	1 unit
Engr. 110C—Basic Electronics Laboratory	1 unit
Engr. 106—Heat Power Laboratory	1 unit
Engr. 108—Strength of Materials Laboratory	1 unit
Engr. 109—Fluid Mechanics Laboratory	1 unit

Students are required to take all lecture courses in the groups above together with five of the six laboratories, and in addition:

English 106A—Preprofessional writing	3 units
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Technical Electives (16 units)

Engr. 112—Kinematics of Mechanisms	3 units
Engr. 113—Elements of Machine Design	3 units
Engr. 116A—Heating and Ventilating	3 units
Engr. 116B—Air Conditioning and Refrigeration	3 units
Engr. 117—Machine Design	3 units
Engr. 120—Power Plants	4 units
Engr. 130—AC Circuits and Applications	3 units
Engr. 131—Electric Communications	4 units
Engr. 135—Electronics	3 units
Engr. 139—Industrial Controls	3 units
Engr. 140—Electronics Laboratory	3 units
Engr. 153—Reinforced Concrete	1 unit
Engr. 155—Specifications and Cost Estimating	3 units
Engr. 156—Foundations and Soil Mechanics	3 units
Engr. 157—Structural Analysis	3 units
Engr. 158—Structural Design	3 units
Engr. 170—Plumbing Engineering	4 units
Engr. 175—Water Treatment and Sewage Disposal	4 units
Business 160—Case Studies in Business Management	3 units
Business 163—Motion and Time Study	3 units
Business 164—Production and Material Control	3 units
Public Health 105—Physical Principles of Sanitation	3 units
Public Health 120—Sanitation Bacteriology	3 units

Students planning advanced study elsewhere are encouraged to select appropriate courses with guidance of engineering faculty from the following:

Differential Equations and Applications

Advanced Calculus

Vectors and Allied Topics

Physical Chemistry

Modern Physics

Students planning to enter construction field are advised to take 6 units of Plane Surveying in lower division.

Students planning to enter plumbing industry are required to take apprentice training in the trade as supervised work-study experience.

COURSES OF INSTRUCTION

100A Electric Circuits (3) Fall, Spring

Prerequisites: Lower division physics and mathematics. Fundamental units and concepts; series and parallel circuits, and networks; balanced polyphase circuits; power and power factor; electrical instruments and measurements. Three hours lecture. (Formerly Engr. 100.)

100B Electric Machines (3) Fall, Spring

Prerequisite: Engr. 100A. D-C and A-C motor and generator construction, characteristics and applications; single-phase and three-phase transformers. Three hours lecture. (Formerly Engr. 104.)

101 Strength of Materials (3) Fall, Spring

Prerequisite: Engr. 102A. Stresses and deformations in tension, compression and shear; torsion; riveted joints; simple beams and theory of flexure; deflections of beams; columns. Three hours lecture. (Formerly Engr. 101A.)

102A Engineering Mechanics (Statics) (3) Fall, Spring

Prerequisites: Lower division physics and mathematics. Fundamental principles of statics; resolution and composition of forces; algebraic and graphic solutions; friction; center of gravity; moment of inertia. Three hours lecture.

102B Engineering Mechanics (Dynamics) (3) Fall, Spring

Prerequisite: Engr. 102A. Fundamental principles of kinetics; rectilinear and curvilinear motion; translation and rotation; work, power, impulse, momentum, and impact. Three hours lecture.

103 Fluid Mechanics (3) Fall, Spring

Prerequisite: Engr. 102B. Properties of fluids compressible and incompressible; fluid statics; laminar and turbulent flow; flow in pipes and open channels; fluid measurements; impulse and momentum; pumps and turbines. Three hours lecture. (Formerly Engr. 103A.)

105A Thermodynamics (3) Fall, Spring

Prerequisites: Lower division physics and mathematics. Equation of state; energy equations; thermodynamic properties of substances; cycles; air compression; internal combustion engines. Three hours lecture. Formerly Engr. 105.)

105B Applied Thermodynamics (3) Fall, Spring

Prerequisite: Engr. 105A. Application of thermodynamic principles; steam generators, engines and turbines; combustion; vapor cycles; refrigeration; mixtures of vapors and gases; heat transfer. Three hours lecture. (Formerly Engr. 106A.)

106 Heat Power Laboratory (1) Fall

Prerequisite: Engr. 105B. Calibration and use of instruments; heating value of fuels; flue gas analysis; steam generator, engine and turbine tests; internal combustion engine and air compressor tests. Three hours laboratory. (Formerly 106B.)

107 Basic Electronics (3) Fall, Spring

Prerequisite: Engr. 100A. Thermionic emission; the high vacuum diode; triode and multi-element vacuum tubes and their characteristics; definitions of parameters; large signal amplifier analysis; small signal amplifier equivalent circuits; tuned and untuned voltage amplifier characteristics. Three hours lecture.

108 Strength of Materials Laboratory (1) Fall

Prerequisite: Engr. 101. Tests of materials of construction in tension, compression, bending and torsion. Determination of physical properties of wood, steel, concrete and other materials. Hardness tests. Three hours laboratory. (Formerly Engr. 101B.)

109 Fluid Mechanics Laboratory (1) Spring

Prerequisite: Engr. 103. Flow through orifices, nozzles, meters, and pipes and over weirs; water hammer; friction; pumps and turbines. Three hours laboratory. (Formerly Engr. 103B.)

110A Electric Circuits Laboratory (1) Fall, Spring

Prerequisite: Engr. 100A. (May be taken concurrently.) Experiments based on Engr. 100A. Three hours laboratory.

110B Electric Machines Laboratory (1) Fall, Spring

Prerequisite: Engr. 100B. (May be taken concurrently.) Experiments based on Engr. 100B. Three hours laboratory.

110C Basic Electronics Laboratory (1) Fall, Spring

Prerequisite: Engr. 107. (May be taken concurrently.) Experiments based on Engr. 107. Three hours laboratory.

TECHNICAL ELECTIVES**Mechanical Engineering****112 Kinematics of Mechanisms (3) Fall**

Prerequisite: Engr. 102AB. Transmission of Motion; theory of mechanisms; linkages; gears; cams; belts; chains. Three hours lecture.

113 Elements of Machine Design (3) Fall

Prerequisite: Engr. 101 and 112. (These courses may be taken concurrently with Engr. 113.) Application of principles of mechanics, properties of materials, and fabrication processes to the design of simple machines and structural elements. Three hours lecture.

116A Heating and Ventilating (3) Fall

Prerequisite: Engr. 105AB. Psychrometric properties of air; human comfort; heat transfer; heat losses from buildings; heating equipment and systems; steam; hot water; air; ventilation requirements and systems; design of duct systems; residential and industrial applications. Three hours lecture.

116B Air Conditioning and Refrigeration (3) Spring

Prerequisites: Engr. 103 and 116A. (May be taken prior to 116A by permission of instructor.) Air and humidity calculations; fluid flow and air-distribution systems; principles of refrigeration; refrigeration and air-conditioning equipment; complete study of residential and industrial applications including plumbing aspects. Three hours lecture.

117 Machine Design (4) Spring

Prerequisite: Engr. 113. Continuation of Engr. 113 to include design of unit assemblies and machines with regard to suitability of materials, safety, lubrication, construction, etc. Three hours lecture; three hours computation.

120 Power Plants (3) Spring

Prerequisite: Engr. 106AB. Power plant equipment; steam generators, engines, turbines, condensers, and auxiliaries internal combustion engines and other prime movers; load curves; economic selection; cycles and heat balances; design procedure. Three hours lecture.

Electrical Engineering**130 A-C Circuits and Applications (4) Fall**

Prerequisite: Engr. 100B. A-C networks and network theorems; coupled circuits; nonsinusoidal waves; unbalanced polyphase circuits; power factor correction and economics; transmission line calculations; short circuit calculations; symmetrical components. Applications to the transmission, distribution, and utilization of electric power. Three hours lecture; three hours computation.

131 Electric Communication (3) Spring

Prerequisite: Engr. 107. Theory, circuit systems, and applications of amplitude modulation and frequency modulation. Study of the entire field of electrical communications, including telephone, telegraph, radio, and television. Three hours lecture.

135 Electronics (3) Spring

Prerequisite: Engr. 107. Single-ended and push-pull audio power-amplifiers; tuned radio frequency voltage and power amplifiers; feedback amplifiers; oscillators; frequency standards and measurements. Three hours lecture.

139 Industrial Controls (3) Spring

Prerequisite: Engr. 107. Rectifiers; gas tubes; saturable reactors; relays. Basic control circuits for voltage, current, frequency, speed, time, sequence, and their applications; servo systems; automation; survey of the theory, operation, and circuit systems of analog and digital computers. Three hours lecture.

140 Electronics Laboratory (1) Spring

Prerequisite: Engr. 135. (May be taken concurrently.) Experiments based on Engr. 135. Three hours laboratory.

Civil Engineering**153 Reinforced Concrete (3) Fall**

Prerequisite: Engr. 157. (May be taken concurrently.) Theory and design of plain, reinforced and prestressed concrete structures; design of mixes; beams; tee-beams; floors; columns; footings. Three hours lecture.

155 Specifications and Cost Estimating (3) Spring

Building specification and codes: estimating costs; material handling and transportation; excavation; concrete, wood, masonry, and steel construction. Three hours lecture.

156 Foundations and Soil Mechanics (3) Spring

Prerequisites: Engr. 101 and Engr. 103. Physical and mechanical properties of soils; seepage; settlement; slope stability; bearing capacity of foundations; foundation types and construction. Three hours lecture.

157 Structural Analysis (3) Fall

Prerequisite: Engr. 101. Analysis of simple structures; beams, tension and compression members; analysis of bridge and roof trusses and of building frames. Three hours lecture.

158 Structural Design (4) Spring

Prerequisite: Engr. 157. Design of structural members, including tension and compression members, beams, and built-up girders, together with connections. Framing and design of simple bridges, buildings, and frameworks in metal. Codes and specifications of various organizations used as reference. Three hours lecture and three hours computation.

Plumbing Engineering ***170 Plumbing Engineering (4) Fall**

Prerequisite: Engr. 103 or permission of instructor. Hydraulics and pneumatics; water supply and consumption; pumps and storage tanks; design and layout of piping; fire protection and sprinkler systems; drain and vent pipes; sewage and drain pumps; valves, meters, and fixtures; plumbing codes. Three hours lecture; three hours laboratory.

175 Water Treatment and Sewage Disposal (3) Spring

Water supply and purification; operation and control of water treatment plants; sewage treatment and disposal; sewer systems. Three hours lecture.

Special Courses**198 Field Assignments and Reports (1-2) Fall, Spring**

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

199 Independent Study (1-3) Fall, Spring

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

* Plumbing Engineering students are advised to select three courses from the following: Engr. 116A, 116B, 155, Public Health 105, Public Health 120 and Business 160.

ENGLISH

(In the Division of Language Arts)

RAMONA-VERMONT CAMPUSES: Guyer (Department Head), Amneus, Bird, Bushman, Cronin, Fick, Greer, Laser, F. Marcus, Rathbun, Sandelin, Senescu, Shroyer, Williams.

SAN FERNANDO VALLEY CAMPUS: Kaplan (Department Head), M. Marcus, Smith, Van Slooten.

BACHELOR'S DEGREE CURRICULA

Major in English

See also page 53 for B.A. degree requirements.

Designed for students who (1) elect to study the liberal arts with an emphasis in literature and language, or (2) plan to pursue careers in writing.

Lower Division

English 9—Survey of English Literature.....	3 units
English 10—Survey of English Literature.....	3 units

Upper Division

English 102—Linguistic Science and Modern English Grammar.....	3 units
English 127—The Philosophy of Literature.....	3 units
Language Arts 197—Ideas in America.....	3 units

At least <i>one</i> course from the following.....	3 units
English 117J—Shakespeare (3).....	3 units
English 124—Interpreting Drama (3).....	3 units

At least <i>one</i> course from the following.....	3 units
English 121—Interpreting Fiction (3).....	3 units
English 123—Interpreting Poetry (3).....	3 units

At least <i>one</i> course from the following.....	3 units
English 107—Communication of Ideas (3).....	3 units
English 108A-B-C-D—Creative Writing (3).....	3 units

At least <i>two</i> courses from the following.....	6 units
English 149—The English Renaissance (3).....	3 units
English 156—The Age of Reason (3).....	3 units
English 158—The Romantic Age (3).....	3 units
English 160—The Victorian Age (3).....	3 units
English 161—Twentieth Century British Literature (3).....	3 units

At least <i>two</i> courses from the following.....	6 units
English 170A—American Literature to the Civil War (3).....	3 units
English 170B—American Literature from the Civil War to 1950 (3).....	3 units
English 171—Twentieth Century American Literature (3).....	3 units
English 173—The American Renaissance (3).....	3 units
English 177A—Major American Novelists: Cooper to James (3).....	3 units
English 177B—Major American Novelists: Crane to Faulkner (3).....	3 units

Suggested electives:

English 190—Studies in Selected British Writers (3).....	3 units
English 191—Studies in Selected American Writers (3).....	3 units

General Secondary Teaching Major

Designed for the student who is a candidate for the general secondary credential in English. The student must meet the following requirements:

1. Professional education requirements. See pages 122-123.
2. A collegiate course in each of the following areas: composition, literature, speech, and drama or journalism.¹
3. Courses for the major chosen from the following with approval of the departmental adviser:

Lower Division

English 9—Survey of English Literature..... 3 units
 English 10—Survey of English Literature..... 3 units

Upper Division

English 102—Linguistic Science and Modern English Grammar..... 3 units
 English 127—The Philosophy of Literature..... 3 units
 Language Arts 197—Ideas in America..... 3 units

At least *one* course from the following..... 3 units
 English 117J—Interpreting Shakespeare (3)
 English 124—Interpreting Drama (3)

At least *one* course from the following..... 3 units
 English 121—Interpreting Fiction (3)
 English 123—Interpreting Poetry (3)
 English 130B—High School Literature (3)

At least *one* course from the following..... 3 units
 English 107—Communication of Ideas (3)
 English 130A—High School Composition (3)

At least *two* courses from the following..... 6 units
 English 149—The English Renaissance (3)
 English 156—The Age of Reason (3)
 English 158—The Romantic Age (3)
 English 160—The Victorian Age (3)
 English 161—Twentieth Century British Literature (3)

At least *two* courses from the following..... 6 units
 English 170A—American Literature to the Civil War (3)
 English 170B—American Literature from the Civil War to 1950 (3)
 English 171—Twentieth Century American Literature (3)
 English 173—The American Renaissance (3)
 English 177A—Major American Novelists: Cooper to James (3)
 English 177B—Major American Novelists: Crane to Faulkner (3)

At least *one* course from the following..... 2 units
 Speech 164D—High School Dramatics (2)
 Journalism 164J—High School Journalism (2)

Graduate

(Fifth year)..... 6 units
 Six units selected from the courses in the Department of English with the approval of the department adviser.

¹A deficiency in speech may be filled by three units from the following: Speech 100, 111, 130, 131, or Language Arts 100B.

General Secondary Teaching Minor

See also pages 122-123 for teaching credential requirements. Candidates for the general secondary credential in English are required to have courses in each of the following areas: composition, literature, speech, and drama or journalism.

Lower Division

English 9 or 10—Survey of English Literature..... 3 units

Upper Division

At least *one* course from the following..... 3 units

English 117J—Interpreting Shakespeare (3)

English 124—Interpreting Drama (3)

At least *one* course from the following..... 3 units

English 102—Linguistic Science and Modern English Grammar (3)

English 130A—High School Composition (3)

At least *two* courses from the following..... 6 units

English 130B—High School Literature (3)

English 149—The English Renaissance (3)

English 156—The Age of Reason (3)

English 158—The Romantic Age (3)

English 160—The Victorian Age (3)

English 161—Twentieth Century British Literature (3)

At least *two* courses from the following..... 6 units

English 170A—American Literature to the Civil War (3)

English 170B—American Literature from the Civil War to 1950 (3)

English 171—Twentieth Century American Literature (3)

English 173—The American Renaissance (3)

English 177A—Major American Novelists: Cooper to James (3)

English 177B—Major American Novelists: Crane to Faulkner (3)

MASTER OF ARTS DEGREE

Candidates for the general secondary credential in English are required to have a course in each of the following areas: composition, literature, speech, and drama or journalism. Graduate students who have not previously met this requirement may take the following courses in each area:

Composition: English 107

Literature: English 220, 227, 281, 285

Speech: Speech 215, 220S

Drama: Speech 220D

Journalism: Journalism 220

1. *Prerequisites:* In addition to specific course prerequisites and the all-college requirements for admission to candidacy (which are listed in the Graduate Bulletin, obtainable from the Graduate Office), English M.A. candidates must have had 24 units of approved undergraduate English courses.

2. Required core in area of concentration..... 12 units

English 205—Seminar in Language (3)

English 227—Seminar in Literary Criticism (3)

English 281—Seminar in Literature and Human Values (3)

English 285—Seminar in Contemporary World Literature (3)

- At least *one* course from the following 3 units
- Any 220 course offered by Language Arts Division (3)
 - English 142—The Age of Chaucer (3)
 - English 149—The English Renaissance (3)
 - English 156—The Age of Reason (3)
 - English 158—The Romantic Age (3)
 - English 160—The Victorian Age (3)
 - English 161—Twentieth Century British Literature (3)
 - English 171—Twentieth Century American Literature (3)
 - English 173—The American Renaissance (3)
 - English 177A—Major American Novelists: Cooper to James (3)
 - English 177B—Major American Novelists: Crane to Faulkner (3)
 - English 190—Studies in Selected British Writers (3)
 - English 191—Studies in Selected American Writers (3)
 - English 299—Graduate Project (3)
3. Approved courses exclusive of English 6 units
 Courses taken for undergraduate credit may NOT be applied to satisfy this requirement.

4. Electives 9 units

5. Comprehensive Examination

This written examination searches for evidence of comprehension, assimilation, and correlation of the knowledge, values, and skills developed in the area of concentration, and for evidence of ability to employ this training in secondary education. If the student has elected English 299, a portion of the examination will be devoted to an inquiry into his project. The written examination may be supplemented by an oral one.

(NOTE: The following courses in English and Language Arts do not give graduate credit: English 99, English 106A, Language Arts 100AB.)

COURSES OF INSTRUCTION

LOWER DIVISION

- 9 **Survey of English Literature: Beginnings to 18th Century** (3) Fall
- 10 **Survey of English Literature: 18th Century to Present** (3) Spring
 Significant works read as literature and as a reflection of English cultural and social development.
- 99 **Writing Laboratory** (2) Fall, Spring
 Individual and group instruction in basic writing skills. Gives lower division credit. May not be included in computing grade point averages.

UPPER DIVISION

LANGUAGE AND COMPOSITION COURSES

- 100 **History and Philosophy of the English Language** (2) Fall
 The English language as a medium for communicating thought and as a mirror of English and American cultural history.
- 102 **Linguistic Science and Modern English Grammar** (3) Fall, Spring
 A scientific analysis of the structure of English; comparison with traditional grammar; problems of usage.

106A Pre-Professional Writing (3) Fall, Spring

Techniques for writing scientific and technical reports and articles. Designed especially for students of science and engineering.

107 Communication of Ideas (3) Fall, Spring

Study from the viewpoint of logic and semantics of major factors influencing the communication of ideas. Emphasis on advanced practice in reading, writing, and group discussion.

108A-B-C-D Creative Writing (3) Fall, Spring

Designed to develop knowledge and skill in the handling of literary forms.

130A High School Composition (3) Fall

Principles and techniques of composition applicable to high school student writing.

INTERPRETATION COURSES

These courses propose to develop criteria for the selection, analysis, evaluation, and enjoyment of literature. Practice is offered in explication of theme, analysis of structure, language, tone, and mood, and correlation of a literary work with its own age and with contemporary life. Upper division standing and satisfactory completion of a freshman composition course (or concurrent enrollment in Language Arts 100A) are prerequisites for all interpretation courses.

117J Interpreting Shakespeare (3) Fall, Spring

Analysis of 12 to 15 plays as drama and poetry.

121 Interpreting Fiction (3) Spring

Analysis of representative short stories and novels.

123 Interpreting Poetry (3) Fall

Analysis of representative poems in English.

124 Interpreting Drama (3) Fall, Spring

Analysis of 12 to 15 representative plays.

127 Philosophy of Literature (3) Fall, Spring

Introduction to key works of literary criticism and examination of major systems of critical thought. Emphasis on applied criticism.

128 Interpreting Children's Literature (3) Fall, Spring

Principles for evaluating children's literature. The place of literature in the child's education.

130B High School Literature (3) Spring

Principles and techniques for selecting, interpreting, and evaluating reading materials for high school students.

ENGLISH LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of representative British writers. Consideration is given to the artistic, ethical, and social values of each age and to their surviving influence on the present. Completion of a survey of English literature, or consent of instructor, is prerequisite to enrollment in all upper division courses in English literature.

142 The Age of Chaucer (3) Fall (Offered 1958 and alternate years thereafter)

Study of selected years works in Middle English with special emphasis on Chaucer.

149 The English Renaissance (3) Fall

Study of nondramatic literature from 1550 to 1660 and of the cultural forces which helped to shape it.

156 The Age of Reason (3) Spring

Study of representative works from the Restoration through the eighteenth century.

158 The Romantic Age (3) Fall

Study of the aesthetic, political, and philosophical ideas in the prose and poetry of the major Romantic writers.

160 The Victorian Age (3) Fall

Study of the scientific, philosophical, aesthetic, and political thought in the prose and poetry of the major writers of the age.

161 Twentieth Century British Literature (3) Spring

Study of nondramatic literature since 1900 and of the cultural forces which helped to shape it.

AMERICAN LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of representative American writers. Consideration is given to the artistic, ethical, and social 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) are prerequisites for registration in American literature courses.

170A Masters of American Literature, 1620-1860 (3) Fall, Spring

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

Significant works of the most important American writers, read for enjoyment as literature, as revelation of a writer's point of view, and as reflection of American cultural trends. 170A and 170B may be taken separately or in any sequence.

171 Twentieth Century American Literature (3) Fall

Study of those writers who have revised American literary tradition in response to the changing patterns of twentieth century life and thought.

173 The American Renaissance (3) Spring

Prerequisite: English 170A or consent of instructor. America's intellectual independence as expressed in the writings of Emerson, Whitman, Thoreau, and Emily Dickinson.

177A Major American Novelists: Cooper to James (3) Fall**177B Major American Novelists: Crane to Faulkner (3) Spring**

Prerequisite: A college-level course in literature. Study of selected fiction by outstanding American writers. 177A and 177B may be taken separately or in any sequence.

COMPARATIVE LITERATURE COURSES

These courses emphasize the artistic achievement and subsequent influence of authors who have contributed significantly to 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) are prerequisites for registration in comparative literature courses.

180A Literature and the Fine Arts, B.C. (3) Fall

Masterpieces of oriental and classical literature studied in relation to major movements in thought and art. May be taken separately or in any sequence with English 180B.

180B Literature and the Fine Arts, A.D. (3) Spring

Masterpieces of literature from the western heritage studied in relation to major movements in thought and art. May be taken separately or in any sequence with English 180A.

SPECIAL STUDIES

190 Studies in Selected British Writers (3) Fall, Spring

Prerequisite: Senior standing and completion of one upper division course in English literature. Intensive study of literary figures, movements, groups, or problems of major importance in English literature. Subjects will vary from semester to semester; e.g., Shaw; Keats and Dylan Thomas; Dickens and the Victorian Novel; etc.

191 Studies in Selected American Writers (3) Fall, Spring

Prerequisite: Senior standing and completion of one upper division course in American literature. Intensive study of literary figures, movements, groups, or problems of major importance in American literature. Subjects will vary from semester to semester; e.g., *The City in the American Novel*; Robert Penn Warren; etc.

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

Graduate standing is prerequisite to registration in the following courses.

200 Project Writing (2)

Techniques of scholarly investigation and reporting. An all-college service course, not restricted to English majors.

205 Seminar in Language (3) Fall

Prerequisite: Satisfactory completion of English 102 or an equivalent course. Review of elements of the structure of English. Continuation of this study with emphasis on the phonological basis of language. Study of problems of modern English usage and relevant historical background.

220 Seminar in Literature (3) Spring

Prerequisite: Completion of one upper division course in each of the following areas: English literature, American literature, comparative literature; or consent of the instructor. Selected problems emphasizing the relevance of literary study for contemporary life.

227 Seminar in Literary Criticism (3) Fall

Prerequisite: English 127 or consent of the instructor. Intensive study of approaches to literature, with attention to the philosophical bases of major critical positions. Practice in the techniques of critical examination and the writing of criticism.

281 Seminar in Literature and Human Values (3) Spring

Prerequisite: At least two upper division courses in literature. A study of the ways in which the literature of other nations and times has dealt with problems confronting the present generation.

285 Seminar in Contemporary World Literature (3) Spring

Major trends in western world literature of the late nineteenth and the twentieth centuries; includes American, English, and European authors.

299 Graduate Project (3) Fall, Spring

Prerequisite: At least one graduate course in English. Investigation of a sizable problem in language or literature, the written report of which can be utilized effectively in secondary education. Project must be approved before enrollment.

FRENCH

(In the Division of Language Arts)

RAMONA-VERMONT CAMPUSES: Bonhard, Lionetti.

BACHELOR'S DEGREE CURRICULUM

No major in French is offered

General Secondary Teaching Minor

See also pages 122-123 for professional education requirements. A teaching major in a different field is also required for the general secondary credential.

Lower Division

French (Intermediate) 8 units

Upper Division

French 101AB—Oral and Written Composition (3-3) 6 units

French 102AB—French Literature From Middle Ages to Twentieth Century (3-3) 6 units

20 units

COURSES OF INSTRUCTION

101A-B Oral and Written Composition (3-3) Offered alternate years.
Prerequisite: Intermediate French.

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

Offered alternate years.

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

199 Directed Individual Studies (1-3) Fall, Spring

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

GEOGRAPHY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Byron (Acting Department Head), Eild, Gentilcore, Lydolph, Nishi, Price.

SAN FERNANDO VALLEY CAMPUS: Durrenberger.

BACHELOR'S DEGREE CURRICULUM

Major in Geography

Geography involves study of the earth, its peoples, and their ways of inhabiting it. The major in geography is designed to fulfill the purposes both of a liberal education and of vocational preparation in geography or allied fields. Optional courses are recommended in accordance with the candidate's aims.

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/or Anthropology	6 units
(Recommended course: Map Reading and Interpretation (2))	

Upper Division

Geography 102—Geomorphology <i>or</i>	
Geography 110—Climatology	3 units
Geography 105—Cartography	3 units
Geography 121—Anglo-America	3 units
Geography 141—World Resources	3 units
Regional Geography. Select from list below	6 units
Geography 109—Geography of the Pacific Area (3)	
Geography 122—Geography of Latin America (3)	
Geography 123—Geography of Europe (3)	
Geography 124—Geography of Asia (3)	
Geography 131—Geography of California (3)	
Electives in Geography	6 units
Electives in related Natural and Social Sciences (with the approval of an adviser)	6 units

MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in geography aimed at depth of understanding.

1. Prerequisite: 30 approved upper division units in geography and related fields. Upon completion of the undergraduate preparation, the student will be considered for candidacy on the basis of a preliminary examination.
2. Area of concentration
 - a. Social Science 250A
 - b. Approved graduate "200" courses in the field of geography. Graduate project not to exceed three units of credit may be included

3 units
9 units

- c. Other approved courses in the field of geography; may be upper division "100" courses _____ 3 units
- d. Comprehensive written examinations in selected fields of geography _____
3. Approved courses outside the area of geography _____ 6 units
4. Other courses approved in advance by the adviser _____ 9 units

COURSES OF INSTRUCTION

NOTE: Geography 102 and 115 satisfy the general education requirement in natural science (physical science); Geography 110 satisfies the general education requirement in natural science (electives). All other courses in geography except 105 are classified as social science.

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

101 Survey of the Modern World (3) Fall, Spring

A regional survey of major cultural and economic features of the modern world. Emphasis on matters of critical importance for understanding current problems. Physical elements introduced as needed. Intended primarily for candidates for teaching credentials.

102 Geomorphology (3) Fall

Identification of the surface features of the earth and their meaning. Local landforms will be observed on a field trip.

105 Cartography (3) Spring

Maps and techniques of map drafting. Lecture one hour; laboratory four hours.

109 Geography of the Pacific Area (3) Fall, Spring

The human and physical features which characterize the islands of the Pacific, Australia, and the Pacific rim; major stress upon geographic factors influencing contemporary events.

110 Climatology (3) Fall, Spring

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

115 Physical Geography (3) Fall, Spring

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

121 Geography of Anglo-America (3) Fall, Spring

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

122 Geography of Latin America (3) Fall, Spring

The development and character of the lands of Latin America.

123 Geography of Europe (3) Spring

Interpretation of the natural and cultural features of the countries of Europe and the Mediterranean.

124 Geography of Asia (3) Fall, Spring

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

131 Geography of California (3) Fall, Spring

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

141 World Resources (3) Fall, Spring

The distribution and utilization of the major agricultural and mineral resources of the world.

181 Political Geography (3) Spring

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

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

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

270 Studies in the Nature of Geography (3)

A seminar in the history, objectives, and methods of geography.

271 Studies in Regional Geography (3)

A seminar on selected regions of the world.

280 Studies in Physical Geography (3)

A seminar in the nature, origin, and areal occurrence of the physical qualities of the land (climate, land forms, soils, and vegetation).

299 Graduate Project (3)

GOVERNMENT

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Black (Department Head), Guild, McNeill, Misner, Potter, Sandler, Warren.

SAN FERNANDO VALLEY CAMPUS: Ferguson.

BACHELOR'S DEGREE CURRICULA

Major in Government

Four options in the government major, each representing a different objective, are offered.

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.
4. A general program, encompassing such ultimate objectives as teaching in junior colleges, entrance into politics, citizenship participation, liberal arts training, and pregraduate study.

Work-study credit is given to government majors serving as interns in governmental agencies in the Los Angeles area. In many instances these internships must be attained through civil service screening tests conducted by the respective governmental agency.

Lower Division

Lower division requirements are the same for each of the above indicated optional majors in government: six units of introductory political science.

Students electing pre-law (Option 2) are required to have completed a year of United States history, or English history, or history of western civilization (preferably one of the two former), and a year of accounting; students majoring in the international relations field (Option 3) are urged to have eight lower division units or equivalent knowledge in one foreign language.

Upper Division

Option 1—Government Service

Select from the following _____ 9 units

- Government 103—State and Local Government (3)
- Government 104—Municipal Government (3)
- Government 105—American Federal Government (3)
- Government 114—Public Opinion and Lobbies (3)
- Government 117—Government Controls in the American Economy (3)

Government 160—Principles of Public Administration	3 units
Government 163—Public Personnel Administration <i>or</i>	
Government 165—Principles of Employee Supervision	3 units
Mathematics 113—Elementary Statistical Methods	3 units
Select from courses numbered above 163	9 units

Option 2—Pre-Law

Social Science 150—Scientific Method and Applied Logic	3 units
Government 103—State and Local Government <i>or</i>	
Government 104—Municipal Government	3 units
Government 112—Political Theory <i>or</i>	
Government 113—American Political Thought	3 units
Government 157—Constitutional Law <i>or</i>	
Government 176—Administrative Law	3 units
Government 158—The Anglo-American Legal System	3 units
Business 185—Business and Government <i>or</i>	
Government 117—Government Controls in the American Economy	3 units
Government 160—Principles of Public Administration	3 units
Economics 110—Economics of the Business Firm	3 units
History 179—Constitutional History of the United States	3 units
English 106A—Pre-Professional Writing	3 units
Select from the following	6 units
Business 102, 103; Economics 171, 172, 190; English 170A, 170B; Government 105, 126; History 148, 175, 153AB; Mathematics 113; Philosophy 104; Psychology 110; Sociology 102, 163; Speech 110.	

Option 3—International Relations

Government 105—American Federal Government	3 units
Government 125—United States Foreign Policy	3 units
Select from the following	6 units
Government 126—International Law (3)	
Government 127—International Relations (3)	
Government 128—International Organization (3)	
Select from the following	6 units
Government 150—European Government (3)	
Government 151—Governments of Latin America (3)	
Government 152—Asiatic Governments (3)	
Geography 181—Political Geography	3 units
History 178—Diplomatic History of the United States	3 units
Economics 106—Principles of International Trade	3 units
(Recommended: Upper division work in the foreign language begun in lower division)	

Option 4—General Government

Of the following six fields of Government, coverage of at least four fields is required, with a total of not less than 27 upper division units. The program pattern in each instance will be determined in consultation with the appropriate departmental adviser.

- a. Public Administration
 - Govt. 103—State and Local Government (3)
 - Govt. 104—Municipal Government (3)
 - Govt. 160—Principles of Public Administration (3)
 - Govt. 163—Public Personnel Administration (3)
 - Govt. 165—Principles of Employee Supervision (3)
 - Govt. 166—Public Financial Administration (3)
 - Govt. 168—Public Welfare Administration (3)

- Govt. 170—Public Relations in Government (3)
- Govt. 172—Organization and Management (3)
- Govt. 174—Introduction to City Planning (3)
- b. Comparative Government
 - Govt. 150—European Governments (3)
 - Govt. 151—Governments of Latin America (3)
 - Govt. 152—Asiatic Governments (3)
- c. International Relations
 - Govt. 125—United States Foreign Policy (3)
 - Govt. 126—International Law (3)
 - Govt. 127—International Relations (3)
 - Govt. 128—International Organization (3)
- d. Political Theory
 - Govt. 112—Political Theory (3)
 - Govt. 113—American Political Thought (3)
- e. Political Parties and Politics
 - Govt. 105—American Federal Government (3)
 - Govt. 114—Public Opinion and Lobbies (3)
 - Govt. 118—American Political Parties and Politics (3)
- f. Public Law
 - Govt. 117—Governmental Controls in the American Economy (3)
 - Govt. 157—Constitutional Law (3)
 - Govt. 158—The Anglo-American Legal System (3)
 - Govt. 176—Administrative Law (3)

MASTER OF ARTS DEGREE

The graduate program is built upon the foundation of an undergraduate major in Government (or, as designated in some institutions, Political Science).

1. Prerequisite: 27 approved upper division units in government and related fields.
2. Area of concentration
 - a. Social Science 250A _____ 3 units
 - b. Approved graduate "200" courses in the field of government. Graduate project not to exceed 3 units of credit may be included _____ 9 units
 - c. Other approved courses in the field of government; may be upper division "100" courses _____ 3 units
 - d. Comprehensive written examination in four selected fields of government.
3. Approved courses outside the area of government _____ 6 units
4. Other courses approved in advance by the adviser _____ 9 units

COURSES OF INSTRUCTION

Prerequisites: One year of university or college political science or consent of instructor. Exception: No prerequisites for Government 101, 103, 104, 105.

*101 American Institutions (3) Fall, Spring

Development of the American constitutional system and its ideals. Meets the United States Constitution and California state and local government requirements. Not open to students who have completed an introductory course in American government.

* Designates a course which satisfies the United States Constitution requirement and the California state and local government requirement.

†103 **State and Local Government** (3) Fall, Spring

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

†104 **Municipal Government** (3) Spring

Contemporary American municipalities and their relationships to other governmental jurisdictions, particularly state governments. Aspects of the California State Constitution with reference to such municipal subjects as home rule, referendum, initiative, recall, metropolitan government.

‡105 **American Federal Government** (3) Fall, Spring

The policy-making and administrative structures and operations of the Federal Government. Make-up of Congress; the electoral college; committee composition. Executive departments and agencies; regulatory commissions; government corporations.

112 **Political Theory** (3) Fall

European political thinking from Plato to the present with emphasis on modern contributions.

113 **American Political Thought** (3) Spring

American political thinking from the colonial period to the present, with emphasis on twentieth century contributions.

114 **Public Opinion and Lobbies** (3) Spring

Tactics and aims of pressure groups, particularly lobbies, in the influencing of American public sentiment. Political significance of public opinion polls.

117 **Government Controls in the American Economy** (3) Spring

Government regulation of economic activity. Development of governmental controls, programs, and sanctions. Functions of licensing and inspection. Changing concepts of the public welfare.

118 **American Political Parties and Politics** (3) Fall

The rise of American political parties, including third parties; party structure, operation, control, and political leadership.

125 **United States Foreign Policy** (3) Fall, Spring

Theory and practice of contemporary American foreign policy.

126 **International Law** (3) Fall

Regulation of international relations in peace and in war.

127 **International Relations** (3) Fall, Spring

Theories and practices of international politics today and yesterday.

† Designates a course which satisfies the California state and local government requirement.

‡ Designates a course which satisfies the United States Constitution requirement.

128 International Organization (3) Spring

A study of organizations, methods, and movements leading to the establishment of international law and order.

150 European Governments (3) Fall

A survey of the political structures, institutions, problems, and trends of the governments of the major European countries.

151 Governments of Latin America (3) Fall

Political concepts, structures, and trends in the governments of Mexico, Brazil, Argentina, Chile, and others selected for study by the instructor.

152 Asiatic Governments (3) Spring

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

***157 Constitutional Law (3) Fall**

Basic principles of American constitutional law, and the role of the United States Supreme Court in our political and social development.

158 The Anglo-American Legal System (3) Fall

Development of our legal system from Anglo-Saxon and Roman roots to a case system of law and equity based on English and American common law.

160 Principles of Public Administration (3) Fall, Spring

Analysis of the executive function in government; survey of the principles of administrative organization, personnel management, financial administration, administrative law, public relations. Problems and trends in government as a career.

163 Public Personnel Administration (3) Fall, Spring

Growth of the merit system concept and development of the civil service; recruitment procedures and examinations; position classification; salary structures; retirement plans; in-service training; supervision; employee organizations.

165 Principles of Employee Supervision (3) Spring

Prerequisite: Consent of instructor. A series of discussions on government employee situations and problems from the point of view of the lower-level supervisor.

166 Public Financial Administration (3) Fall

The role of financial administration and budgeting in determination of governmental policy, in administrative planning and management, in control of government operations, in intergovernmental relations, and in relation to the private economy.

* Designates a course which satisfies the United States Constitution requirement.

168 Public Welfare Administration (3) Spring

The internal administration of government programs such as social security, child care, corrections, pensions. Operation of the grant-in-aid principle. Interagency relationships; problems of field coordination.

170 Public Relations in Government (3) Fall

Principles and media used to inform the public of governmental services and programs. Public relations as a staff function. The roles of "information officer," "public service features," public information counters. Agency case histories.

172 Organization and Management (3) Fall

Prerequisites: Government 160 or equivalent. Special study of governmental organization and the techniques and processes of public management. History of the public management movement. Analysis of the problems of control, delegation, and coordination. Methods and procedures of governmental reorganizations.

174 Introduction to City Planning (3) Spring

Functions and administrative structures of city and regional planning agencies. Programs of urban renewal and redevelopment. Economic, legal, aesthetic, and social considerations in program formulation and execution.

176 Administrative Law (3) Spring

Process in administrative adjudication, regulation, and rule making; duties and liabilities of public officers; appeal procedures; trends in regulation.

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in government.

205 Seminar in Contemporary American National Government (3)

Analysis of selected issues and problems of national significance in the United States.

218 Seminar in Political Problems (3)

Special studies of party management, control, finance, campaign strategies, publicity, and public relations. Problems of regional organization, blocs, sectionalism. Changing concepts of party responsibility, political fitness, political education. Case studies of political careers.

227 Advanced Studies in International Relations (3)

Examination of special problems in international politics.

260 Seminar in Public Administration (3)

Advanced studies in administrative organization—delegation, field coordination, accountability, and controls. Values, ends, structures and arrangements in large scale governmental management in a democracy. Growth of the administrative corps. Trends in administrative research.

263 Advanced Problems in Public Personnel Administration (3)

Case studies of the more complicated personnel problems encountered in governmental agencies, including examination of the varying roles of boards, commissions, and official legislative bodies. New frontiers in personnel research and personnel legislation.

299 Graduate Project (3)

HEALTH AND SAFETY EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

RAMONA-VERMONT CAMPUSES: Elliot (Department Head), Adams, Cake, Deeds, Ennen, Gmur, Osborn, Reeves, Warner, Wroblicky. *Part-time*: Bobbett, Schroeder.

BACHELOR'S DEGREE CURRICULUM

No major offered.

General Secondary Teaching Minor in Health Education

Designed for students training to become secondary school teachers. See also pages 122-123 for professional education requirements. 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
First Aid	1 unit

Upper Division

H. & S.Ed. 113—Administration of School Health Programs	2 units
H. & S.Ed. 150—School Health Education	3 units
H. & S.Ed. 153—Principles of Community Health	2 units
Electives selected with the approval of the adviser from the fields of mental health, family life education, nutrition, safety education, and related fields	9-10 units
	20 units

MASTER OF ARTS DEGREE

Prerequisite: Acceptable undergraduate preparation in the field of health and safety.

1. Required courses:

H. & S. Ed. 299—Graduate Project or Comprehensive Examination	0-3 units
H. & S. Ed. 220—Administration of Health Education	2 units
2. Additional health education "200" courses	5-8 units
3. Additional upper division or graduate courses in the Division of Health and Safety, Physical Education, Recreation and Athletics	5 units
4. Courses outside the Division of Health and Safety, Physical Education, Recreation and Athletics	6 units
5. Electives	9 units

COURSES OF INSTRUCTION

113 Administration of School Health Programs (2) Fall

Fulfills the state code requirements for a health and development credential and for a teaching minor in health education. Principles and practices of supervision and administration in school health programs. Includes legal provisions relating to school health.

121 First Aid (1) Fall, Spring

Standard Red Cross first aid.

122 Survival Training Education (2)

The analysis of civil defense organization. Personal survival training information. Methods of educating the public for emergency conditions. Latest developments and information in survival training education.

131 Methods of Teaching First Aid (2) Fall, Spring

Prerequisite: Current Red Cross certificate in standard first aid. American Red Cross course which qualifies students in Advanced and Instructor First Aid.

150 School Health Education (3) Fall, Spring

Prerequisites: Health education or equivalent. Responsibilities of the classroom teacher in school health education program. Cooperation with medical services, provision of healthful classroom environment, health instruction.

153 Principles of Community Health (2) Fall, Spring

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

154 Personal Health and Safety Problems (2) Fall, Spring

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

174 Driver Education and Driver Training (2) Fall, Spring

Prepares students to meet the state code requirements for teaching driver education and driver training. Persons enrolled must be qualified operators of motor vehicles in California.

175 Safety Education (2) Fall, Spring

Safety education and accident prevention. Fulfills state requirement in public safety and fire prevention for graduation from state colleges. Includes techniques and materials for instruction.

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

220 Administration of Health and Safety Education (2) Fall, Spring

Prerequisite: Graduate standing. Organization, content, and evaluation of health and safety education programs. Administration and supervision of official and nonofficial agencies.

221 Appraisal and Guidance in Health and Safety Problems (2)

Fall, Spring

Prerequisite: Graduate standing. Designed for teachers, counselors, and health administrators. Techniques of appraisal and guidance. Analysis and interpretations.

222 Seminar in Health and Safety Education Research (3)

Fall, Spring

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

299 Graduate Project (3) Fall, Spring

HISTORY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Catren (Department Head), Bonar, De-Armond, Greenwalt, Guerrant, Hansen, Jefferis, Lindsey, Tipple.

SAN FERNANDO VALLEY CAMPUS: Fleming, Rydell, Stelck.

BACHELOR'S DEGREE CURRICULUM

Major in History

The history major may be undertaken to attain professional, academic, or cultural objectives; such objectives include: an understanding of the past and its contributions to the present, preparation for graduate work and advanced degrees, proficiency in historical method and historical information in preparation for appointment as specialists in business, in government, and in cultural institutions.

Lower Division

United States History *or*

History of the Americas 6 units

European History *or*

History of England 6 units

Upper Division

Select from the following 6 units

An approved combination in Old World History.

Choices are 111A-B; 121A-B; 145, 146; 146, 147; 146, 148; 147, 148; 147, 149; 148, 149; 148, 158; 153A-B; 191A-B.

Select from the following 6 units

An approved combination in New World History.

Choices are: 159, 166; 162A-B; 172, 173; 173, 174; 174, 175; 174, 178; 175, 178; 175, 179; 177 and any course in the 170 or 180 groups; 178, 179; 178, 181; 181, 188; 181, 190; 188, 190.

History 197—History Proseminar (to be taken in the senior year) 3 units

History and other electives 12 units

Select 6 of the 12 units from related courses in the following fields: anthropology, economics, geography, government, philosophy, sociology, or a national literature (e.g., English literature).

MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in history aimed at depth of understanding.

1. Prerequisite: 21 approved upper division units in history and 6 units in related fields.
2. Area of concentration
 - a. Social Science 250A 3 units
 - b. Approved graduate "200" courses in the field of history 9 units

- c. Other approved courses in the field of history; may be upper division "100" courses..... 3 units
- d. Comprehensive oral and written examinations in selected fields of history.
3. Approved courses outside the area of history..... 6 units
4. Other courses approved in advance by the adviser..... 9 units

COURSES OF INSTRUCTION

Prerequisite: One year of college history, or consent of instructor.
 Exceptions: No prerequisite for History 130 and 175.

111A-B The Ancient Mediterranean World (3-3)

A historical survey of the ancient Mediterranean world from earliest time to the reign of Constantine; main attention to the Greeks and Romans. Begins either semester.

121A-B The Middle Ages (3-3)

Europe from the fall of the Roman Empire to the fifteenth century, with emphasis upon cultural, social, and economic contributions to the modern era. Begins either semester.

130A-B-C-D Great Personalities (3-3-3-3)

No prerequisite. Sections of this course may be taken independently. Biographical study of history through examination of the careers of representative men and women.

- A. Latin America (Fall, 1958)
- B. Europe (Spring, 1958)
- C. United States (Fall, 1957)
- D. Asia (Spring, 1957)

145 Europe: From the Renaissance to Waterloo (3) Fall, Spring

Survey of Europe from the close of the medieval period to the opening of the nineteenth century; politics, society, and institutions.

146 Europe: The Nineteenth Century (3) Fall, Spring

The hundred years from the end of the Napoleonic wars to the outbreak of World War I, with emphasis upon nationalism, international rivalries, and economic changes.

147 Europe: The Twentieth Century (3) Fall, Spring

The course of Europe in recent times; political, military, economic, and social developments from the inception of World War I to yesterday.

148 Economic History of Europe (3) Fall, Spring

Examination of the economic development of Europe in modern times, with special attention to the industrial revolution and its effect. (Same as Economics 172)

149 Russia and the Balkans (3) Fall, Spring

Russia, Poland, and the Balkan countries; their internal and international history in the nineteenth and twentieth centuries, emphasizing Soviet Russia in international politics.

153A-B Great Britain in Modern Times (3-3)

Main currents in the stream of British history from Tudor times to the present day. Particular attention to the modern period and to cultural and social matters. Begins either semester.

158 The British Empire (3) Fall

Political and economic development of the British Empire since the late eighteenth century, with major consideration given to the expansion of the colonial empire and the evolution of the modern empire-commonwealth.

159 Canada (3) Fall

Historical survey of the growth of Canada from French colony to contemporary British Dominion. Treatment both as a part of the British Empire and as one of the Americas.

162A-B Latin America (3-3)

History of the Americas south of the United States from earliest times to the present. The first semester covers the colonial period; the second semester deals with the years since the achievement of independence. Begins either semester.

166 Mexico (3) Spring

The course of the Mexican people and nation since the days of the Aztecs; particular attention to social and cultural matters and to the more recent national period.

***172 The United States: The Colonial Period (3) Fall**

History of the 13 colonies from their European origins to the completion of American independence. Emphasis on colonial life and problems, the revolution, and the early national period.

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

The evolution of the American people and Nation from Jefferson's administration to the war with Spain. Main topics include sectionalism, civil war and reconstruction, and industrialization.

***174 The United States: The Twentieth Century (3) Fall, Spring**

Political, economic, and social history of the United States in recent years; the Progressive Era, World War I, the "twenties," the New Deal, World War II, and postwar United States.

* Designates a course which satisfies the American History requirement.

***175 Economic History of the United States (3) Spring**

Historical survey of American economic development to the present, particularly industrialization and national legislation in the fields of industry and commerce. (Same as Economics 171.)

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

The development of America's social and cultural structure; the relationships and contributions to that structure brought about by changes in religions, education, music, art, drama, and architecture.

***178 Diplomatic History of the United States (3) Fall, Spring**

Historical analysis of the foreign relations of the United States from colonial backgrounds to the contemporary scene, with special attention to recent diplomatic problems.

***179 Constitutional History of the United States (3) Fall, Spring**

Prerequisites: Six units of American history, or six units of government, and consent of instructor. The Federal Constitution from the historical point of view. Major considerations: the Constitutional Convention, and constitutional controversies and changes since John Marshall.

***181 The Westward Movement and the West (3) Fall, Spring**

Study of the advance and characteristics of the American frontier from colonial times through the nineteenth century and the development of the West in the past half century.

188 California (3) Fall, Spring

The political, economic, social, and intellectual history of California from Spanish times to the present, with emphasis upon current characteristics, problems, and trends.

190 The Pacific Area (3) Fall, Spring

Synthesis of the historical development of eastern Asia, Oceania, and the American lands bordering the Pacific; analysis of the impact of the West upon the East, with special attention to the role of the United States and to contemporary problems of the Pacific.

191A-B The Far East (3-3)

Survey of China, Japan, and the Indies from ancient to recent times, Oriental culture, political and social developments, westernization, current trends, international politics. Begins either semester.

197 History Proseminar (3) Fall, Spring

Senior course: *Required* of all history majors. An introduction to historical method. Prepares the student for graduate seminar work in history; utilizes historical method and bibliography to equip the history major for certain specialized positions in business, government, and cultural institutions.

* Designates a course which satisfies the American History requirement.

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in history.

201 Historiography and Bibliography (3)

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 from 1865 to the present.

277 Studies in the Social History of the United States (3)

Guided study in the social history of the United States.

281 Studies of the American West (3)

Guided student research in the history of the American West.

288 Studies in California (3)

Guided student research in the history of California.

299 Graduate Project (3)

HOME ECONOMICS

(In the Division of Technical Sciences)

RAMONA-VERMONT CAMPUSES: Gregory (Department Head), Chamberlain, Cornish, Graves, Miller.

BACHELOR'S DEGREE CURRICULA

Major in Homemaking

Designed for the student who desires intensive preparation for home and family life.

Lower Division

Elementary Clothing	3 units
Textiles	2 units
Food Preparation	3 units

Lower or Upper Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—The Home and Its Furnishings	3 units
Home Economics 140—The Child	3 units
Home Economics 150—Organizing and Managing the Home	2 units

25 units

Upper Division Electives

Select from the following	11 units
Home Economics 102—Tailoring (2)	
Home Economics 131—Advanced Foods (3)	
Anthropology 105—Culture and Personality (3)	
Art 103A or B—Three-dimensional Design (2-2)	
Art 110—Art Appreciation for Teachers (2)	
Art 114—Furniture Design and Construction (3)	
Art 143A or B—Interior Design (2-2)	
Art 175—Costume Design (2)	
English 128—Interpreting Children's Literature (3)	
Music 103A or B—Music for Children (2-2)	
Sociology 145—Social Psychology (3)	
Sociology 158—Community Welfare Organization (2)	
Speech 120—Oral Interpretation (3)	

36 units

Special or General Secondary Teaching Major in Homemaking

Designed for the student who wishes to prepare for a career in teaching in the field of home economics. See also pages 122-124 for professional education requirements.

Lower Division

Elementary Clothing	3 units
Textiles	2 units
Elementary Nutrition	2 units
Food Preparation	3 units
Home Nursing	2 units
.....	—
.....	12 units

Upper or Lower Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 102—Tailoring	2 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—The Home and Its Furnishings	3 units
Home Economics 131—Advanced Foods	3 units
Home Economics 140—The Child	3 units
Home Economics 141—Child Care Laboratory	1 unit
Home Economics 150—Organizing and Managing the Home	2 units
Home Economics 151—Home Living Experience	2 units

Upper Division Electives**Recommended:**

Home Economics 132—Demonstration Techniques (3)

Select from the following

Art 114—Furniture Design and Construction (3)

Art 147A-B—Textiles and Weaving (2-2)

Home Economics 122A-B—Interior Design (2-2)

Home Economics 103—Costume Design (2)

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41 units

NOTE: When fulfilling science requirements in the general education program, credential majors should take six units in chemistry, biology, physics, physiology, or bacteriology. Students must complete H.E. 101 and H.E. 131 before doing student teaching.

General Secondary Teaching Minor in Homemaking

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

Lower Division

Elementary Clothing	3 units
Food Preparation	3 units

Upper or Lower Division

A course in marriage and family relationships	3 units
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Upper Division Core

Home Economics 101—Advanced Clothing	3 units
Home Economics 111—Consumer Buying	3 units
Home Economics 121—The Home and Its Furnishings	3 units
Home Economics 131—Advanced Foods	3 units
Home Economics 140—The Child	3 units
Home Economics 150—Organizing and Managing the Home	2 units

—
26 units

Recommended Upper Division Electives

- Home Economics 102—Tailoring (2)
 Home Economics 103—Costume Design (2)
 Home Economics 122A or B—Interior Design (2-2)
 Anthropology 105—Culture and Personality (3)
 Art 103A or B—Three-dimensional Design (2-2)
 Art 114—Furniture Design and Construction (3)
 English 180A or B—Literature and the Fine Arts (3-3)
 Music 103A or B—Music for Children (2-2)
 Sociology 145—Social Psychology (3)
 Sociology 158—Community Welfare Organization (2)

Home Economics in Business Major**Lower Division**

Elementary Foods.....	3 units
Textiles.....	2 units
Household Chemistry.....	3 units
Typing.....	2 units

10 units

Upper Division Core

Home Economics 111—Consumer Buying.....	3 units
Home Economics 131—Advanced Foods.....	3 units
Home Economics 132—Demonstration Techniques.....	3 units
Home Economics 150—Organizing and Managing the Home.....	2 units

11 units

Upper Division Electives

Select from the following..... 12-15 units

- Art 103A or B—Three-dimensional Design (2-2)
 Business 104—Principles of Marketing (3)
 Business 113—Office Organization and Management (3)
 Business 140—Principles of Advertising (3)
 Business 142—Salesmanship (3)
 Business 148—Public Relations Methods for Business (3)
 English 106A—Preprofessional Writing (3)
 Home Economics 101—Advanced Clothing (3)
 Home Economics 121—The Home and Its Furnishings (3)
 Journalism 145—Feature Article Writing (3)
 Journalism 155—Photo-Journalism (3)
 Speech 155—Television Techniques (3)

33-36 units

COURSES OF INSTRUCTION**100 Simplified Dressmaking (3) Spring**

No prerequisite. For nonmajors. An overview of basic techniques; the use of effective shortcuts of value to the homemaker.

101 Advanced Clothing (3) Fall

Prerequisite: Elementary clothing. Advanced garment construction involving principles of fabric selection and design, and the necessary skills in working with wool, silk, and synthetic fibers. Consideration of the effect on individual personality of appropriate costume selection. Two 3-hour labs combined with lecture.

102 Tailoring (2) Spring

Prerequisite: H.E. 101. The principles, processes, and skills involved in women's tailoring. Construction of a wool suit or coat. Two 2-hour labs combined with lectures.

103 Costume Design (2) Fall

Development of necessary skills in the designing of costumes for stage, street, and other occasions. Involves principles used in industry. Emphasis upon functional design.

111 Consumer Buying (3) Fall, Spring

The evaluation of marketed goods and services and their contribution to desired goals of family living. Consideration of expenditures for essentials and luxuries.

115 Marriage and Family Relationships (3) Fall, Spring

Interpersonal relationships of family members and the resulting effects on the individual, family group, and the community. Problems involved in courtship, marriage, and establishing the home.

121 The Home and Its Furnishings (3) Fall, Spring

A study of the home, its decoration and furnishings, based upon family needs, income, and interests. Laboratory experience with colors, fabrics, and construction of accessories. Field trips. Two hours lecture; two hours laboratory.

122A-B Interior Design (2-2) A—Fall, B—Spring

Prerequisites: One semester of design or H.E. 121. The elements of visual expression and design as related to contemporary concepts of family needs.

131 Advanced Foods (3) Fall, Spring

Advanced study of principles and practices involved in food selection and preparation and meal management. Six hours lecture-laboratory combined.

132 Demonstration Techniques (3) Spring

Prerequisites: H.E. 131 and 150. Practice in techniques used in promotional and educational demonstrations. Field experience through cooperation with local business and utility companies. Six hours laboratory combined with lecture.

140 The Child (3) Fall, Spring

Prenatal care of the expectant mother. Care and training of the child from infancy to preadolescence to insure maximum physical and emotional well-being.

141 Child Care Laboratory (1) Fall, Spring

Active participation in nursery schools and child care centers, followed by evaluation. Open only to credential majors.

150 Organizing and Managing the Home (2) Fall

Study of ways in which the efficient use of time, energy, and money in household management and the selection, care, and use of household equipment can contribute to enriched family living.

151 Home Living Experience (2) Fall, Spring

Prerequisites: H.E. 111, 121, 131, 150. Practical application of basic principles of homemaking under supervision in home management house. A laboratory course.

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

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

199 Special Problems in Home Economics (1-3) Spring, Fall

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

INDUSTRIAL ARTS

(In the Division of Technical Sciences)

RAMONA-VERMONT CAMPUSES: Dobson (Department Head), Gummere, La Monica, Mays, Roysher, Sweetnam. *Part-time*: Hoffman, Thompson.

BACHELOR'S DEGREE CURRICULA

Major in Industrial Arts

Students desiring to receive the A.B. degree with a major in industrial arts may plan this major with the advice and counsel of the department adviser.

Special Secondary Limited Credential in Industrial Arts Education

Students who have a high school diploma or equivalent, who have five years of acceptable trade experience in an approved field, and who passed the approved trade tests may upon the completion of 60 hours of acceptable teacher training courses apply to the State Board of Education for the Special Secondary Limited Credential in Industrial Arts Education.

Special Secondary Teaching Major in Industrial Arts

See also pages 123-124 for professional education requirements.

Designed to prepare teachers for elementary and secondary school positions.

Ordinarily Industrial Arts is offered as a teaching major. Unless authorized by the department, the student must qualify for a Special Secondary Credential in Industrial Arts as a part of major department requirement.

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

Lower Division

Woodwork	3 units
General Metalwork	3 units
Industrial Drawing	3 units
Electricity—Radio	3 units
Graphic Arts	3 units

Upper Division

Ind. Arts 105—Industrial Arts Orientation	2 units
Ind. Arts 106—Industrial Arts Curriculum Materials	2 units
Select from the following—at least two areas must be selected	25 units

Woodwork Area

- Ind. Arts 110AB—Cabinetmaking and Carpentry (3-3)
- Ind. Arts 111—General Woodwork for Teachers (3)

General Metal Area

- Ind. Arts 170AB—General Metal (Advanced) (3-3)
- Ind. Arts 176AB—Metalsmithing—Forging (2-2)
- Ind. Arts 171—General Metalwork for Teachers (3)

Industrial Drawing

- Ind. Arts 121AB—Machine Drawing (3-3)
- Ind. Arts 122AB—Architectural Drawing (3-3)

Electricity—Radio Area

- Ind. Arts 150AB—Electricity—Radio (Advanced) (3-3)
- Ind. Arts 151—General Electricity and Radio for Teachers (3)

Graphic Arts Area

- Ind. Arts 141—Graphic Arts (Advanced) (3)
- Ind. Arts 142—Graphic Arts (Advanced) (3)
- Ind. Arts 143—Graphic Arts Special Processes for Teachers (3)

Handicraft Area

- Ind. Arts 130AB—Handicrafts in the Secondary Schools (3-3)

Recommended Electives

- Ind. Arts 104—Construction of Teaching Aids (3)
- Ind. Arts 112—Shop Maintenance (1)
- Ind. Arts 113—Introduction to Industrial Arts Design (3)
- Ind. Arts 114—Furniture Design and Construction (3)
- Ind. Arts 123—Shop Drawing (2)

General Secondary Teaching Major

The industrial arts requirements for the general secondary credential in industrial arts are the same as those for the special secondary credential. See also pages 122-123 for professional education requirements. A teaching minor in a different teaching field and a graduate year including additional professional education courses are required for the general secondary credential.

General Secondary Teaching Minor

Ind. Arts 113—Introduction to Industrial Arts Design	2 units
Ind. Arts 106—Industrial Arts Curriculum Materials	2 units
Nine units in one industrial arts area	9 units
Seven units to be selected from other industrial arts shop areas (may be either upper or lower division)	7 units
	<hr/> 20 units

MASTER OF ARTS DEGREE

Industrial arts majors who wish to take a master's degree in this field are referred to page 136. Here is described a program leading to a master's degree in Secondary Teaching with specialization in industrial arts.

COURSES OF INSTRUCTION**104 Construction of Teaching Aids (3) Spring**

The construction of teaching aids for shop class use, such as cut-away models and mock-ups, assignment boards, checking devices for course coverage, blown-up models, electrical identification panels, procedure boards, and material specimens.

105 Industrial Arts Orientation (2) Fall

The background and philosophy of industrial arts education in the United States and foreign countries. Its present place and function in the total program of elementary and secondary education.

106 Industrial Arts Curriculum Materials (2) Spring

The development and use of instructional materials for different industrial arts areas. The preparation of objective tests, instruction sheets, and courses of instruction, through individual and group participation. Study of shop planning.

110A-B Cabinetmaking and Carpentry (3-3) Fall, Spring

Basic cabinet and furniture construction as used in period and contemporary styles. Operation of woodworking machines and the use of hand tools. Cabinet detailing and stock billing. House framing construction and nomenclature. Safety will be emphasized.

111 General Woodwork for Teachers (3) Spring

Review of tool skills and machine operations with emphasis on teaching techniques. The development of sample projects suitable for use in secondary school shop classes. To be taken concurrently with directed teaching.

112 Shop Maintenance (1) Spring, Fall

Study of the various maintenance problems found in industrial arts shops in the public schools. Practical experience in the performance of maintenance jobs typical of those in the student's area of interest and specialization.

113 Introduction to Industrial Arts Design (2) Fall

Basic skills and appreciation of industrial arts. Lecture, field trips, and laboratory. Student-designed industrial arts projects will be carried to conclusion during the laboratory period.

114 Furniture Design and Construction (3) Spring

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

121A-B Machine Drawing (3-3) Fall, Spring

Sketching of machine parts. Principles of mechanical motion; belts and pulleys, gears, cams, etc. Machine design; detail and assembly drawings. Aircraft details and production illustration.

122A-B Architectural Drawing (3-3) Fall, Spring

Fundamentals of architectural drawing, conventions, electrical plumbing symbols, sections, frame construction, building codes and ordinances. Home planning—traditional and contemporary styles. Drawing and

printing a complete set of plans for a single-family dwelling; writing a set of basic specifications covering these plans.

123 Shop Drawing (2) Fall, Spring

Additional information and practice in the preparation of working drawings for all of the industrial arts areas. Designed for those not specializing in drafting.

130A-B Handicrafts in the Secondary Schools (3-3) Fall, Spring

Basic skills and understanding of the handicrafts which will enable junior and senior high school teachers to provide worthwhile experiences for class use. Work in model making, leather tooling and carving, plastics, metal tooling, metal enameling, and wood carving.

141 Graphic Arts (Advanced) (3) Fall

Application of typographical principles through individual projects. Problems in job, periodical, and book composition, together with imposition, lock-up, and limited instruction in press work according to student abilities and interests. Historic, conventional, and contemporary styles in typography.

142 Graphic Arts (Advanced) (3) Spring

Prerequisite: Ind. Arts 141. The study of typography with instruction based upon the student's ability and progress. Additional instruction in press work, linotype, and pamphlet bindery techniques.

143 Graphic Arts Special Processes for Teachers (3) Spring

The development of sample projects suitable for use in secondary school shop classes. Includes silk screen, rubber stamp, linoleum block, bookbinding, etc. Teaching techniques stressed. To be taken concurrently with directed teaching.

150A-B Electricity-Radio (Advanced) (3-3) Fall, Spring

Emphasis on radio, sound, television, and electronics. Opportunity for practice in radio construction and repair together with the use of variety of electrical testing instruments. Safety instruction given special attention.

151 General Electricity and Radio for Teachers (3) Spring

Review of the fundamental principles of electricity and radio with emphasis on teaching techniques. The development of sample projects suitable for use in secondary school shop classes. To be taken concurrently with directed teaching.

170A-B General Metal (Advanced) (3-3) Fall, Spring

Comprehensive training in machine shop practice, wrought metal, metal casting, welding, and sheet metal taught in a limited general shop. The class will be conducted as in junior and senior high school shops with all activities going on simultaneously. Safety will be emphasized.

171 General Metalwork for Teachers (3) Spring

Review of the various metalworking processes with emphasis on teaching techniques. The development of sample projects suitable for use in secondary shop classes. To be taken concurrently with directed teaching.

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

Beginning and advanced techniques of forging metal; forming of flatware, decorative sections, handles, and special applications. (Same as Art 176A-B.)

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

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

199 Special Problems in Industrial Arts (1-2) Spring, Fall

Approval of the department head is required. Independent study of industrial arts problems designed to provide upper division students an opportunity for additional experience of an advanced kind in an area of special interest.

GRADUATE COURSES**204 Development, Use, and Evaluation of Instructional Aids in Industrial Arts (3)**

An advanced course in the development, use, and evaluation of instructional aids. Emphasis on three-dimensional teaching aids, charts, slides, and displays.

205 Supervision and Organization of Industrial Arts Programs (3) Spring

Responsibilities of the supervisor for organizing industrial arts programs on various levels and for the improvement of instruction in the field.

206 Teaching Problems in Industrial Arts (3) Summer

Study and investigation of teaching problems in the field of industrial arts. Provision for individual and group studies of special problems. Teaching experience is a prerequisite.

233 Seminar in Advanced Industrial Arts Design (3) Fall

Design as applied to projects of metal, plastics, wood, leather, and other materials. Students must show graduate competence in design and research.

JOURNALISM

(In the Division of Language Arts)

RAMONA-VERMONT CAMPUS: Borders, P. Scott. *Part-time:* Dyer, Owen, Rodriguez.

BACHELOR'S DEGREE CURRICULUM

Major in Journalism

Lower Division

Journalism 1 and 2—News Writing and Reporting 6 units

Upper Division

At least *one* course from the following 3 units

* Journalism 130A-B—News Editing (3-3)

At least *one* course from the following to total 4 units

* Journalism 138—Typography and Mechanics of Newspapers (4)

Art 103A-B—Three-dimensional Design (2-2)

Art 133A-B—Advertising Design (2-2)

Art 191A—Catalog Illustration (2)

At least *one* course from the following 3 units

* Journalism 140—History and Philosophy of Journalism (3)

Government 103—State and Local Government (3)

Government 104—Municipal Government (3)

Government 114—Public Opinion and Lobbies (3)

Government 170—Public Relations in Government (3)

At least *one* course from the following 3 units

* Journalism 150—Contemporary Editorial Problems (3)

Business 104—Principles of Marketing (3)

Economics 112—Development of Economic Thought (3)

Economics 190—Current Economic Problems (3)

At least *one* course from the following 3 units

Journalism 170—Newspaper Management (3)

* Journalism 171—Newspaper Advertising (3)

Business 140—Principles of Advertising (3)

Business 141—Advanced Advertising (3)

Business 148—Public Relations Methods for Business (3)

Home Economics 111—Consumer Buying (3)

Home Economics 115—Marriage and Family Life (3)

At least *one* course from the following 2 units

* Journalism 196—Special Projects in Journalism (2)

Journalism 198—Field Assignment and Reports (2)

Journalism 190—Press and World Affairs 2 units

Journalism 191—Law of the Press 2 units

Language Arts 197—Ideas in America 3 units

* Normally these courses are recommended for the major unless similar courses from other colleges have been completed in lower division.

Teaching Major in Journalism

No teaching major is offered in the field of journalism exclusively. A student who is interested in a composite-field teaching major which includes journalism should refer to pages 202-203, where the Language Arts Major is outlined.

MASTER OF ARTS DEGREE

See "Language Arts," page 204.

COURSES OF INSTRUCTION

Ability to type or concurrent enrollment in typing is a prerequisite for all students majoring in journalism.

LOWER DIVISION

1 Beginning News Writing (3)

Introduction to news writing and reporting, for the student who wishes to enter journalism but who has had no lower division journalism courses. News sources, the collection of news, acceptable forms for news stories, and newspaper style. Practical work on the student newspaper, with stress on accuracy, grammar, spelling, and news values.

2 Advanced Reporting (3)

A continuation of Journalism 1 on a more professional level. Specialized reporting, feature writing, and staff work on the newspaper. Provides a sound base for advanced journalism courses to follow in the upper division.

UPPER DIVISION

130A-B News Editing (3-3) A—Fall; B—Spring

Prerequisites: Two semesters of collecting and writing of news or equivalent, or consent of instructor. Techniques of copyreading and headline writing, theories of news selection and makeup, examination of newspaper editorial practice.

138 Typography and Mechanics of Newspapers (4) Spring

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

140 History and Philosophy of Journalism (3) Fall

Study of the development of journalism, particularly in the United States, with an introduction to important papers and personalities. Development of freedom of the press with consideration of its responsibilities under law.

145 Feature Article Writing (3) Spring

Open to all upper division students and to sophomores who have completed two semesters of collecting and writing of news, and one semester

of copyreading and headline writing, or their equivalents. Deals principally with the writing of articles for Sunday feature sections of newspapers or trade or regional magazines. Analysis of the requirements of all types of publications.

150 Contemporary Editorial Problems (3) Fall

An examination of current editorial practice to determine the philosophy and social attitudes of present day publishers. Integrates the broad field of sociology and philosophy with journalism.

155 Photo-Journalism (3) Spring

News photography, including Speed Graphic camera, flash, exposure, development, and printing. Evaluating the finished news picture. Cameras and dark rooms provided; students must furnish some supplies.

160 Industrial Magazine Publishing (3) Fall, Spring

The editing and business management of the house organ and industrial magazine, stressing format, copy, illustration, and promotion. For the beginner or, as a refresher course, for the working editor.

164J High School Journalism (2) Spring

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.

170 Newspaper Management (3) Fall

Analysis of the economy, organization, and business operation of daily and weekly newspapers. Circulation, advertising, promotion, production, and plant design problems. Practice in simple cost accounting and bookkeeping procedures useful in newspaper business management.

171 Newspaper Advertising (3) Spring

Principles of advertising with emphasis on the newspaper as an advertising medium. Relationship of advertising to the newspaper as a whole. Instruction and practice in preparing pictures, layouts, and copy for newspaper use, including attention to mat services and available syndicated materials.

190 The Press and World Affairs (2) Spring

Comparative world journalism with an examination of sources of news from various capitals. Analysis of propaganda. Comparative study of the four streams of news: local, state, national, and international.

191 Law of the Press (2) Fall

Chiefly a study of the law of libel. Consideration of the right of privacy, contempt of court, freedom of the press, copyright, statutory limitations, postal regulations and the right to print news of public affairs. Privileged matter under law.

192. Radio and Television Continuity Writing (3) Fall

The analysis and preparation of local news and commercials, musical introductions, and special news features for radio and television.

196 Special Projects in Journalism (1-2) Fall, Spring

Prerequisite: Consent of instructor. Recommended for members of the *College Times* or *Night Times* staff, the *Pitchfork* staff, and the *Statement* staff. One hour class plus three hours additional supervised activity weekly. May be taken in any combination and may be repeated for a total of eight units.

196B *College News Bureau* (2)

196N *College Times* (2)

196NT *Night Times* (2)

196M *Statement* (1)

196Y *Pitchfork* (1)

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

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

199 Independent Study (1-3) Fall, Spring

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

220 Seminar in Journalism (3)

Combines intensive training in advanced journalistic writing at the graduate level and study of outstanding contemporary publications and the contemporary publication field. Analysis of leading contemporary magazines, pocket reprints of full length works, and library editions of works reprinted from magazines selected on these bases: (1) demonstrated significance and appeal to large audiences; (2) contemporary documentary relevance; (3) intrinsic merit of writing.

LANGUAGE ARTS

(In the Division of Language Arts)

Faculty from cooperating disciplines within Language Arts Division.

BACHELOR'S DEGREE CURRICULA

Major in Language Arts

Ordinarily Language Arts is offered as a teaching major. Students wishing to qualify for a bachelor's degree in this field should follow the requirements listed below for the general secondary teaching major.

General Secondary Teaching Major

See also pages 122-123 for professional education requirements. A teaching minor in a different teaching field is also required for the general secondary credential.

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

Core Requirements: To insure familiarity with the practical contributions each of the language arts can make to a broad field teaching major, to provide actual experience in the functional integration of courses into a common program, and to demonstrate the importance of broad field instruction at the secondary level, all students preparing for teaching majors in this field take a common core of lower division and upper division courses.

Candidates for the General Secondary Credential in Language Arts are required to have a collegiate course in each of the following areas: composition, literature, speech, drama or journalism, and motion picture or radio.

Lower Division

English 9—Survey of English Literature.....	3 units
English 10—Survey of English Literature.....	3 units

Upper Division—Core Requirements

English 102—Linguistic Science and Modern English Grammar.....	3 units
Journalism 164J—High School Journalism.....	2 units
Language Arts 164M—Mass Communication Arts.....	2 units
Language Arts 197—Ideas in America.....	3 units
Speech 164D—High School Dramatics.....	2 units
Speech 164S—High School Speech Arts.....	2 units
At least <i>one</i> course from the following.....	3 units
English 121—Interpreting Fiction (3)	
English 123—Interpreting Poetry (3)	
English 124—Interpreting Drama (3)	
English 130A—High School Composition (3)	

- At least *one* course 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)

Core Supplements: 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

- At least *two* courses from the following 6 units
- Speech 150A or B—Principles of Directing (3)
 - Speech 112A or B—Advanced Acting (3)
 - Speech 196A, B, C, or D—Special Projects in Speech and Drama (3)

JOURNALISM SUPPLEMENT

- At least *two* courses from the following 6 units
- Journalism 130A or B—News Editing (3)
 - Journalism 140—History of Journalism (3)
 - Journalism 150—Contemporary Editorial Problems (3)

LITERATURE SUPPLEMENT

- English 117J—Interpreting Shakespeare 3 units
- At least *one* new course 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 171—Twentieth Century American Literature (3)
 - English 173—The American Renaissance (3)
 - English 177B—Major American Novelists: Crane to Faulkner (3)

SPEECH SUPPLEMENT

- At least *two* courses from the following 6 units
- Speech 100—Group Discussion (3)
 - Speech 110—Public Speaking (3)
 - Speech 120—Oral Interpretation (3)

Graduate (Fifth Year)

Guided Electives: With the approval of his assigned graduate adviser, each student working for a teaching credential in the broad field major of Language Arts selects a minimum of six units in drama, English, journalism, language arts, or speech. These courses are chosen to meet actual placement requirements in the student's proposed teaching field. Often these courses may be in the area of the student's undergraduate core supplement, provided additional work in such an area is relevant to his teaching objective.

- At least *two* courses from the following with approval of adviser 6 units
- English 205—Seminar in Language (3)
 - English 220—Seminar in Literature (3)
 - Journalism 220—Seminar in Journalism (3)
 - Language Arts 220—Seminar in Communication Problems (3)
 - Speech 215—Performance (3)
 - Speech 220D—Seminar in Dramatic Arts (3)
 - Speech 220S—Seminar 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, provided that other college requirements for that degree have been satisfied.

General Secondary Teaching Minor

See also pages 122-123 for professional education requirements. A teaching major in a different field is also required for the general secondary credential.

Lower Division

At least <i>one</i> course from the following.....	3 units
English 9 or 10—Survey of English Literature (3)	
Collecting and Writing News (3)	
Elements of Public Speaking (3)	

Upper Division

Journalism 164J—High School Journalism.....	2 units
Language Arts 164M—Mass Communication Arts.....	2 units
Speech 164D—High School Dramatics.....	2 units
Speech 164S—High School Speech Arts.....	2 units
At least <i>one</i> course from the following.....	3 units
English 121—Interpreting Fiction (3)	
English 123—Interpreting Poetry (3)	
English 130A—High School Composition (3)	
At least <i>one</i> course from the following.....	3 units
English 130B—High School Literature (3)	
English 158—The Romantic Age (3)	
English 160—The Victorian Age (3)	
At least <i>one</i> course from the following.....	3 units
English 170B—Masters of American Literature 1860-1950 (3)	
English 171—Twentieth Century American Literature (3)	
English 173—The American Renaissance (3)	
English 177B—Major American Novelists: Crane to Faulkner (3)	
_____	20 units

MASTER OF ARTS DEGREE

1. Prerequisites:
 - a. A formal oral conference with the assigned graduate adviser is required before the student makes application for candidacy.
 - b. Undergraduate preparation: The normal prerequisite for entry upon the master of arts program in language arts is a baccalaureate major in English, foreign language, language arts, or speech. The graduate faculty will, however, consider applications from students who can meet all course prerequisites, and who have completed at least 24 units of approved upper division work in language arts fields directly related to their teaching objectives.
2. At least *four* courses from the following..... 12 units

English 220—Seminar in Literature (3)	
Journalism 220—Seminar in Journalism (3)	
Language Arts 220—Seminar in Communication Problems (3)	
Speech 220S—Seminar in Speech Arts (3)	
Speech 220D—Seminar in Dramatic Arts (3)	
3. Select with the approval of the graduate adviser..... 3 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 examination.

COURSES OF INSTRUCTION

100A Written Expression (3) Fall, Spring

Prerequisite: One semester of freshman composition, grade of "C" in English 99, or junior standing. Principles of grammar, rhetoric, and semantics applied to practical problems in written communication. Rapid review of composition problems; regular practice in reading, writing, speaking, and listening.

100B Oral Expression (3) Fall, Spring

Principles of oral communication. Emphasis on definition, exposition, organization, and reasoning. Conducted through individual and group activities.

102 Linguistic Science and Modern English Grammar (3) Fall, Spring
Register for English 102.**164D High School Dramatics (2)** Spring
Register for Speech 164D.**164J High School Journalism (2)** Spring
Register for Journalism 164J.**164M Mass Communication Arts (2)** Fall

Educational importance of motion pictures, radio, and television in the school and home. Extended practice in comparative analysis and evaluation of most of the mass communication arts.

164S High School Speech Arts (2) Fall
Register for Speech 164S.**197 Ideas in America (3)** Fall, Spring

Study of how the broad complex of native experience has expressed itself in significant novels, essays, public address, and other art forms.

GRADUATE COURSES

220 Seminar in Communication Problems (3) Fall

Selected problems related to the teaching of communication skills.

MATHEMATICS

(In the Division of Natural Sciences)

RAMONA-VERMONT CAMPUSES: Urner (Adviser), Rasof.

SAN FERNANDO VALLEY CAMPUS: Willig.

BACHELOR'S DEGREE CURRICULA

Major in Mathematics

Designed for students who plan to pursue advanced work in mathematics or accept employment in industry or government work involving mathematics.

Lower Division

Basic courses in Mathematics up to and including integral calculus... 12-21 units
(Duplicate courses or courses on high school level taken in the junior college are not acceptable.)

Upper Division

Select from the following..... 15-24 units

Mathematics 107—Introduction to Modern Geometry (3)	
Mathematics 108—Theory of Algebraic Equations (3)	
Mathematics 109—Topics in History of Mathematics (3)	
Mathematics 110—Overview of Secondary Mathematics (3)	
Mathematics 112—Intermediate Calculus (3)	
Mathematics 116—Differential Equations (3)	
Mathematics 117AB—Numerical Calculus (3)	
Mathematics 121AB—Advanced Calculus (3-3)	
Mathematics 130—Modern Algebra (3)	
Mathematics 131AB—Mathematical Statistics (3-3)	

General Secondary Teaching Major

Designed for students who plan to become secondary teachers. See also pages 122-123 for professional education requirements. 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)..... 12-21 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.....	3-12 units
Mathematics 112—Intermediate Calculus (3)	
Mathematics 116—Differential Equations (3)	
Mathematics 117AB—Numerical Calculus (3-3)	
Mathematics 121AB—Advanced Calculus (3-3)	
Mathematics 130—Modern Algebra (3)	
Mathematics 131AB—Mathematical Statistics (3-3)	

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing other requirements for the degree have been met.

General Secondary Teaching Minor

Designed for students who plan to become secondary teachers. See also pages 122-123 for professional education requirements. A teaching major in a different teaching field is also required.

Lower Division

Basic courses in mathematics which satisfy prerequisites for upper division courses _____ 12-14 units

Upper Division

Courses approved by adviser _____ 6-8 units
 _____ 20 units

COURSES OF INSTRUCTION

15 Basic Mathematics for Business and Social Sciences (3)

Prerequisite: None. Fundamental concepts and skills in arithmetic and algebra needed in business and social sciences.

31 College Arithmetic (3) Fall, Spring

Prerequisite: None. A course designed primarily for prospective elementary teachers, but open to others. The objectives are understanding and appreciation of the fundamentals of arithmetic, with some attention to the historical and recreational aspects of the subject.

107 Introduction to Modern Geometry (3) Fall

Prerequisite: Introduction to Mathematical Analysis or equivalent. A study of some of the synthetic geometry which has been developed since the time of Euclid, followed by a brief survey of non-Euclidean geometry.

108 Theory of Algebraic Equations (3) Fall, Spring

Prerequisite: Calculus. Complex numbers, properties of polynomials, with especial reference to the field concept; equations in the fields of rational numbers, real numbers. Elimination, resultants; algebraic extensions of a field, cubic equations, constructability problems.

109 Selected Topics in the History of Mathematics (3) Fall, Spring

Prerequisite: Calculus or equivalent. Traces the development of fundamental concepts and techniques in the fields of algebra, geometry and trigonometry.

110 Overview of Secondary Mathematics (3) Fall, Spring

Prerequisite: Calculus. A study of the subject-matter of secondary mathematics, directed toward a thorough understanding of basic concepts and ideas.

112 Intermediate Calculus (3) Fall, Spring

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

116 Differential Equations (3) Fall, Spring

Prerequisite: Calculus. A first course in differential equations emphasizing their application in science and engineering.

117A Numerical Calculus (3) Fall

Prerequisite: Calculus. Designed to bridge the gap between classroom mathematics and such applications as the calculations in the aircraft industry or in actuarial work. Includes solution of equations (including methods of approximation), interpolation, numerical integration, numerical solution of differential equations. (Formerly Mathematics 117.)

117B Numerical Calculus (3) Spring

Prerequisite: Calculus. A continuation of 117A, but may be taken before 117A. Includes finite differences, orthogonal polynomials, least squares, harmonic analysis, smoothing of data.

121A Advanced Calculus (3) Fall

Prerequisite: Calculus. An extension of the techniques and ideas of analysis into higher fields essential to more advanced or graduate work. Special emphasis on applications to science and engineering. Includes vector analysis, and an advanced study of functions of several variables. (Formerly Mathematics 121.)

121B Advanced Calculus (3) Spring

Prerequisite: Mathematics 121A or equivalent. A continuation of Mathematics 121A. The principal topics are infinite series and functions of a complex variable. (Formerly Mathematics 122.)

130 Modern Algebra (3) Spring

Prerequisite: Mathematics 108. An introduction to some of the principal concepts of modern algebra, including integral domains, groups, rings, and fields, as well as vector spaces and matrices.

131A Introduction to Mathematical Statistics (3) Spring

Prerequisite: Calculus or equivalent. A basic course in the theory and application of statistical methods. Theoretical and empirical frequency distributions of one or two variables. Large and small sample theory. Correlation.

131B Introduction to Mathematical Statistics (3) Fall

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

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

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

MUSIC

(In the Division of Fine Arts)

RAMONA-VERMONT CAMPUSES: Snyder (Department Head), Albersheim, Andreas, Baxter, Beckstead, Griffith, Leidig, Mullins, Schliestett, Schubert, Susca, Timmerman, Zack.

SAN FERNANDO VALLEY CAMPUS: Cook, Reilly, Sherrill.

BACHELOR'S DEGREE CURRICULA

Curricula in music are designed for (1) those seeking one of the several teaching credentials; (2) those who are preparing for a professional career in performance, arranging, composition, or writing; (3) those who have avocational interests in music; and (4) those who seek experiences which will extend and enrich their general cultural background. Two patterns for the fulfillment of degree requirements are offered, one providing for considerable freedom of election for those students motivated by musical interests other than teaching in the public schools, and one satisfying the requirements for the special or general secondary credential.

Major in Music

Lower Division

Solfege	6 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	2 units
	—
	18 units

Certain courses taken in the lower division in excess of the above minimum may be accepted for equivalent upper division requirements.

Upper Division

Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
Music 160A—Orchestration	2 units
Music 159A—Introduction to Form Analysis	2 units
Music 161—Conducting	2 units
Music 163—Counterpoint	2 units
Music 179—Senior Recital Preparation	1 unit
Elect from the following courses	10 units
Music 132, 167, 172, 173, 160B, 159B, 162, 105ABCDE, 168	
Elect from the following courses	2 units
Music 115, 135, 155	
Elect from the following courses	4 units
Music 106, 107, 108, 115, 135, 145, 146, 147, 155, 175	
	—
	37 units

Special Secondary Teaching Major

Designed for those who expect to teach music in the public elementary or secondary schools. See also pages 123-124 for the professional education requirements.

Lower Division

Solfege	6 units
Harmony	6 units
Piano (1 unit per semester)	4 units
Voice (1 unit per semester)	4 units
	<hr/>
	20 units

Certain courses taken in the lower division in excess of the above minimum may be accepted for equivalent upper division requirements.

Upper Division

Music 105A-E—Instruments	8 units
*Music 114—Functional Piano for Music Education Majors	1 unit
Music 131AB—History of Music in Western Civilization	6 units
Music 158AB—Music Theory and Composition	6 units
Music 159A—Musical Form and Analysis	2 units
Music 160A or B—Orchestration and Arranging	2 units
Music 161—Choral Conducting	2 units
Music 162—Instrumental Conducting	2 units
Music 163—Counterpoint	2 units
Music 179—Senior Recital Preparation	1 unit
Elect from the following courses	2 units
Music 115, 135, 155	
Elect from the following courses	4 units
Music 106, 107, 108, 115, 135, 145, 146, 147, 155, 175	
	<hr/>
	38 units

NOTE: Candidates for the special or general secondary credential must have completed Music 114, at least one Education 193 methods course in music, and Music 161 prior to enrolling for directed teaching. Those students who expect an instrumental directed teaching assignment must also have completed the Music 105 requirements of the credential program.

Those students who have completed their music requirements for the special or general secondary credential at another institution must complete at least 4 units in music courses and participate in one performance organization at Los Angeles State College before they may expect to obtain the department's recommendation for directed teaching.

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 pages 122-123 for professional education requirements. A teaching minor in a different teaching field and a graduate year including additional professional education courses are required for the general secondary credential.

General Secondary Teaching Minor

See also pages 122-123 for professional education requirements. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Solfege	4 units
Harmony	6 units

* May be waived by examination.

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 105, 109, 110, or 130—Instruments or voice	2 units

NOTE: Prospective teachers should plan to take Education 193Mu, 193MuA or 193MuB prior to or concurrently with directed teaching. Competency at the piano must also be established prior to directed teaching for those who expect to teach general music or direct choral activities. Participation in a musical organization for at least one semester is also required prior to the practice teaching experience.

MASTER OF ARTS DEGREE**1. Prerequisites**

- A baccalaureate degree with a major in music.
- The completion of the instrumental, vocal, and piano requirements for the special secondary credential.
- Ability to perform acceptably as an instrumentalist on a standard orchestral instrument, piano, organ, or as a vocalist; and as a conductor.

2. Area of Specialization

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

- Music 4 units
 - Music 216—Piano, Voice or Orchestral Instruments (2)
 - Music 261—Advanced Choral Conducting or
 - Music 262—Advanced Instrumental Conducting (2)

- Theory 2 units
 - Selected from any approved upper division or graduate "200" course.

- Music History and Literature 2 units
 - Selected from any approved upper division or graduate "200" course.

- Music 299—Graduate Project 3 units

- Outside the field of music 6 units

- Electives 9 units

Selected from music theory, applied music, music history and literature, professional education, liberal arts and sciences, or fine arts.

COURSES OF INSTRUCTION**103A Music for Children (2) Fall, Spring**

Methods of teaching music in the elementary schools: rhythmic activities, use of simple instruments, and music reading. Basic methods course for general elementary and kindergarten-primary credentials.

103B Music for Children (2) Fall, Spring

Prerequisite: Music 103A. Methods of teaching music in the elementary schools: singing, creative, and listening experiences.

Music 105A-B Stringed Instruments (2-2) Fall, Spring

Instruction in violin, viola, cello, and string bass. Problems of tone

* May be waived by examination.

production, right- and left-hand technique, knowledge of fingering. First semester: violin or viola and cello or bass. Second semester: experience on the remaining two instruments. Beginning orchestra experience provided each semester.

105C1 Brass Instruments (2) Fall, Spring

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

105C2 Brass Instruments (2) Fall, Spring

Prerequisite: Music 105C1 or equivalent. Additional experience playing brass instruments. Concentration on instruments other than those played in Music 105C1. Beginning band or orchestra experience provided.

105D1 Woodwind Instruments (2) Fall, Spring

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.

105D2 Woodwind Instruments (2) Fall, Spring

Prerequisite: Music 105D1 or equivalent. Additional experience playing woodwind instruments. Emphasis on the double reeds. Beginning band or orchestra experience provided.

105E Percussion Instruments (2) Fall, Spring

Essential rudiments for snare drum. Extensive experience in reading snare drum literature. Tuning and technique in tympani playing. Introduction to other essential percussion instruments. Participation in beginning band or orchestra.

106A-B-C-D-E-F Brass Ensemble (1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard brass ensemble literature, including brass choir, sextets, quintets, and quartets.

107A-B-C-D-E-F Woodwind Ensemble (1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard woodwind ensemble literature, including woodwind choir, sextets, quintets, and quartets.

108A-B-C-D-E-F String Ensemble (1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. For advanced students. Rehearsal and performance of standard chamber music for strings alone and strings with piano.

109A-B Elements of Vocal Technique (1-1) Fall, Spring

Prerequisite: Ability to read music notation. The techniques of voice

production; study of song interpretation; participation in vocal ensembles.

110A Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A *or* B, or equivalent. A continuation of the study of vocal technique and study of representative song literature from the classic and preclassic eras.

110B Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A *or* B, or equivalent. A continuation of the study of technique and study of representative song literature from the romantic era.

110C Intermediate Voice (1) Fall, Spring

Prerequisite: Music 109A *or* B, or equivalent. A continuation of the study of vocal technique and study of representative song literature from the modern era.

112A-B-C-D Class Piano Instruction (1-1-1-1) Fall, Spring

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

113 Elements of Harmony for Teachers (2) Spring

Prerequisite: Music 103A, *or* Music 112A, or qualifying examination. The elements of harmony applied to singing and the keyboard. Designed to assist classroom teachers in teaching music and creating simple piano accompaniments.

114 Functional Piano for Music Education Majors (1) Fall, Spring

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

115A-B-C-D-E-F Band (1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

**116A-B-C-D Individual Lessons on Instruments or in Voice (1-1-1-1)
Fall, Spring**

On-campus, private lessons with approved instructors. Special fee.

119A-B Review of Harmony and Ear Training (2-2) Fall, Spring

Prerequisite: One year of elementary harmony and ear training. Review of diatonic harmony and elements of music writing. Melodic and harmonic dictation and sight singing. Keyboard applications. Does not count toward music major requirements.

**123 Music Appreciation Materials for Elementary School Teachers
(2) Spring**

Materials and methods for conducting listening activities and teaching music appreciation. Elementary level. (Formerly called *Appreciation Materials for Schools*.)

124 Piano Methods and Materials (2) Spring

Practical procedures for teaching piano, from preschool child to adult level. Methods and materials for public school class and private teaching.

125 General Music in the Junior High School (2) Fall

Methods and materials for junior high level. Consideration of problems of changing voice, voice testing, and part-singing. The general music class. (Formerly called Junior High School Music Methods.)

127A-B-C-D Advanced Strings (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Class instruction in technique and repertoire for advanced students of violin and viola.

129A-B-C-D Advanced Brass (1-1-1-1) Spring

Prerequisite: Consent of instructor. Class instruction in technique and repertoire for advanced students of brass instruments.

130A-B-C-D Advanced Voice (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Performance of art song, opera, and oratorio literature. Advanced techniques.

131A-B History of Music in Western Civilization (3-3) Fall, Spring

A survey of music in general culture; stylistic development of music shown by playing and discussing typical literature. 131A: Medieval through Baroque; 131B: Preclassical to contemporary. 131A is prerequisite to 131B.

132A Italian and French Operatic Literature (2) Fall

A brief history of development of opera through seventeenth and eighteenth centuries, with detailed analysis, using scores and recordings of representative operas.

132B German and Modern Opera (2) Spring

Operatic innovations of late nineteenth and twentieth centuries, with detailed analysis using scores and recordings of several examples of German and modern operas, chosen from the standard operatic repertoire.

135A-B-C-D-E-F Orchestra (1-1-1-1-1-1) Fall, Spring

Prerequisite: Consent of Instructor.

145A-B-C-D-E-F Madrigal Singers (1-1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

146A-B-C-D-E-F Women's Glee Club (1-1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Designed for nonmusic majors.

147A-B-C-D-E-F Men's Glee Club (1-1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Designed for nonmusic majors.

148A-B-C-D Intermediate Piano (1-1-1-1) Fall, Spring

Prerequisite: Music 112C or equivalent. Technical study and performance of some of the smaller compositions in the standard piano literature.

154 Music Appreciation (3) Fall, Spring

The development of understanding and enjoyment of music through study of its fundamentals, history, and literature. Emphasis on awareness and evaluation of music in our lives. Required attendance at selected concerts. For nonmusic majors only.

155A-B-C-D-E-F A Cappella Choir (1-1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

158A-B Music Theory and Composition (3-3) Year course

Prerequisite: One year of harmony and some ability to play the piano. A review of diatonic harmony; study of chromatic harmony, melodic and harmonic dictation; chromatic alteration; practical application to composition in elementary forms.

159A Musical Form (2) Fall

Prerequisite: One year of harmony and musicianship. Analytic techniques for the study of balance in the organization of musical material. (Formerly called Introduction to the Analysis of Form.)

159B Advanced Problems in Musical Form (2) Spring

Prerequisite: Music 159A. Analytic techniques for the study of balance in the organization of music material in contrapuntal textures and in larger forms. (Formerly called Advanced Form.)

160A-B Orchestration and Arranging (2-2) A—Fall; B—Spring

Prerequisite: Elementary harmony. It is recommended that Music 105A and D be completed prior to this course; Music 105C and E may be taken concurrently. The theory and practice of writing for instrumental ensembles. The study of orchestral scores and an introduction to symphonic orchestration.

161 Choral Conducting (2) Fall, Spring

Prerequisite: Two years harmony, solfege, or their equivalent. Principles of choral conducting; problems of choral organization.

162 Instrumental Conducting (2) Fall, Spring

Prerequisite: Music 161. It is recommended that Music 105A, E, and C or D be completed prior to this course. Experience offered in transposition, score reading, baton technique, and interpretation of symphonic literature. Recognition of psychologically sound rehearsal procedure. Experience conducting rehearsal orchestra is an integral part of the course.

163 Counterpoint (2) Fall, Spring

The study of eighteenth century contrapuntal techniques, including some work in the species; invertible counterpoint; motive development; two- and three-part inventions. Introduction to linear counterpoint.

167A-B History and Literature of the Symphony Orchestra (2-2)
Fall, Spring

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

168A-B Composition (2-2) Fall, Spring

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

169 Harmonic Analysis (2) Fall

Prerequisite: Music 158A-B (may be taken concurrently). Analysis, by scores, recordings, and performance; classification and practical application of the harmonic procedures of Mozart, Beethoven, Brahms and Wagner.

171A-B-C-D Opera Workshop (1-1-1-1) Fall, Spring

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

172A Piano History and Literature (2) Fall

Survey of pre-piano and piano literature; changes in keyboard technique and style. Representative piano literature performed and analyzed.

172B Chamber Music History and Literature (2) Spring

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

172C Contemporary Techniques (2) Fall

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

172D American Music (2) Spring

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

173A Art Song (2) Fall

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

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

Historical and analytical study of oratorios, masses, cantatas, and other large choral works.

174A-B-C-D Advanced Piano (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor. Advanced repertory and interpretive coaching for public performance, with consideration of materials selected from the different periods of musical composition.

175A-B-C-D Piano Ensemble (1-1-1-1) Fall, Spring

Prerequisite: Consent of instructor.

179 Senior Recital Preparation (1) Fall, Spring

Required of all music majors. Instruction in advanced technical problems, style, repertoire and performance experience.

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

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

199 Independent Study (1-3) Fall, Spring

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

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GRADUATE COURSES

202 Modern Trends in Elementary Music Education (2) Fall

Prerequisite: A baccalaureate degree with a major in music education. Modern trends in philosophy of education and how to apply them in elementary school music classes.

203 Advanced Problems in Secondary Choral Methods (2) Fall

Prerequisites: Education 193Mu and Education 193MuB. An advanced course in methods of teaching choral music; a survey and evaluation of current choral materials, with classification as to appropriate levels; consideration of problems involved in various type of choral activities.

204 Advanced Problems in Instrumental Methods (2) Spring

Prerequisites: Education 193Mu, and Education 193MuA, or equivalent. An advanced course in the methods of teaching instrumental music on the various levels of the public schools; consideration of materials suitable for various types of instrumental organizations; study of the problems involved in setting up a successful instrumental music program.

207 Psychology of Music (2) Spring

A study of musical growth and development. The physical, mental, emotional, and social impacts of music upon the lives of people. Various learning theories explored and related to the development of musical insights, appreciations, and skills.

208A-B Advanced Composition and Analysis (2-2) Fall, Spring

Prerequisite: Music 168A-B or equivalent. Free composition in all the vocal and instrumental forms.

209A-B Advanced Orchestration and Arranging (2-2) Fall, Spring

Prerequisite: Music 160A-B or equivalent. Specialized work in arranging for ensembles including the symphonic band and standard symphony orchestra.

212 Music of the Baroque Period (2) Fall

Prerequisite: Music 131A-B. Styles, forms, composers, and compositions from the early Baroque through the works of J. S. Bach.

213 Music of the Classical Period (2) Spring

Prerequisite: Music 131A-B. Styles, forms, and compositions of classical masters of the eighteenth century.

214 Music of the Romantic Period (2) Fall

Prerequisite: Music 131A-B. From the beginning of the romantic period to the late nineteenth century; symphony, romantic opera, art-song, tone-poem.

215 Music of the Twentieth Century (2) Spring

Prerequisite: Music 131A-B. Contemporary trends and techniques. Study of representative works by Debussy, Ravel, Stravinsky, Hindemith, Bartok, Schoenberg, and others.

**216A-B-C-D Individual Lessons on Instruments or in Voice (1-1-1-1)
Fall, Spring**

On-campus, private lessons with approved instructors. Special fee.

261 Advanced Choral Conducting (2) Spring

Prerequisites: Music 161 and Music 162. (Formerly Music 177.)

262 Advanced Instrumental Conducting (2) Spring

Prerequisites: Music 161 and Music 162. (Formerly Music 178.)

263 Canon and Fugue (2) Spring

Prerequisite: Music 163 or qualifying examination. Strict canonic writing from rounds through the four-part double canon; simple fugues through the double and triple fugue. Study and analysis of scores. (Formerly Music 164.)

299 Graduate Project (3) Fall, Spring

NURSING

(In the Division of Technical Sciences)

RAMONA-VERMONT CAMPUSES: Fisher (Department Head). *Part-time:* Gooding, Thomes.

The college program in nursing is presently undergoing an extensive revision. The revised program will not be ready for inclusion in this catalog but will be outlined in a special brochure issued by the college in June, 1957. Students planning to enter the program in the fall of 1957 should see or write to Mrs. Evelyn Fisher, Head, Department of Nursing, Los Angeles State College, 855 North Vermont Avenue, Los Angeles 29, California.

BACHELOR'S DEGREE CURRICULA

Major in Nursing (For Registered Nurses)

A total of 128 units must be completed to qualify for graduation with a B.S. degree in nursing. A nurse who has graduated from an accredited school of nursing and is registered in the State of California may be granted 36 units toward a B.S. degree with a major in nursing. Additional requirements for the completion of the major at Los Angeles State College are as follows:

Nursing 108—Community Nursing	2 units
Nursing 112—Nutrition in Family Health Service	2 units

Major in Nursing (For Student Nurses)

A total of 128 units is required for the B.S. degree in nursing.

Lower Division

Human Anatomy	3 units
General Physiology	5 units
Introduction to Sociology	3 units
General Microbiology	4 units
Nutrition and Cookery	3 units
Diet Therapy	3 units
Survey of Nursing	2 units
History of Nursing	3 units
General Psychology	3 units

Upper Division

Nursing 103—Pediatric Nursing	5 units
Nursing 104—Psychiatric Nursing	5 units
Nursing 106—Tuberculosis Nursing	3 units
Nursing 121—Fundamentals of Nursing I *	9 units
Nursing 122—Fundamentals of Nursing II *	8 units
Nursing 123—Fundamentals of Nursing III *	11 units
Nursing 124—Fundamentals of Nursing IV *	5 units

* See course description.

Special Secondary Teaching Major

1. A standard college course with a bachelor's degree.
2. Graduation from an accredited school of nursing.
3. Verification of current nursing registration in California.
4. Fulfillment of the professional education requirements for a special secondary credential; see pages 123-124.
5. Completion of Nursing 111, Principles of Nursing Education, as a prerequisite to Education 193N.

COURSES OF INSTRUCTION**103 Pediatric Nursing (5) Fall, Spring**

Prerequisite: Enrollment in affiliated hospital school. Physical and mental development of normal children, including their care and feeding. Common diseases of infancy and childhood, preventive measures, and medical and nursing care.

104 Psychiatric Nursing (5) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. Principles of mental hygiene and the etiology, symptomatology, treatment, special therapy, and nursing care of the more common types of mental diseases.

106 Tuberculosis Nursing (3) Fall, Spring

Prerequisite: Enrollment in affiliated hospital school. The medical and social aspects of tuberculosis, including control programs, nursing measures, and rehabilitation.

111 Principles of Nursing Education (2) Fall, Spring

Prerequisite: Registered nurse or enrollment in affiliated hospital school. An introduction to nursing education for those who plan to enter the field of administration or teaching in schools of nursing. Emphasis on the application of nursing education to clinical programs.

112 Nutrition in Family Health Service (2) Fall, Spring

Prerequisites: Nutrition and Cookery, Diet, Therapy or equivalents; registered nurse or enrollment in affiliated hospital school. Nutrition and food service problems presented by families in moderate and low income groups. Special consideration of the various age and dietary needs within the family group, the problems of food purchasing, and the adaptation of both American and foreign food habits to meet good nutritive standards.

114 Principles and Practices of Public School Nursing (4) Fall

Practical application of basic principles, functions, techniques, and methods of public school nursing in California. Emphasis on relationship with authorized agencies in promoting health and welfare of public school children. Open only to currently employed public school nurses since daily laboratory work is required.

121 Fundamentals of Nursing I (9)

Prerequisite: Enrollment in affiliated hospital school. Skills in planning and executing elementary nursing care in relation to the patient's individual needs.

122 Fundamentals of Nursing II (8)

Prerequisite: Enrollment in affiliated hospital school. Understanding the basic principles of medical and surgical nursing.

123 Fundamentals of Nursing III (11)

Prerequisite: Enrollment in affiliated hospital school. Acquaints the nurse with advanced nursing procedures and responsibilities involved in administration of drugs in medical, surgical, and obstetrical nursing.

124 Fundamentals of Nursing IV (5)

Prerequisite: Enrollment in affiliated hospital school. Understanding the nature, functions and services of community health and welfare agencies, the factors which influence their development, and the nurses' responsibilities in relation to them.

143 Principles of Nursing Clinical Instruction (2) Fall

Principles of instruction, methods of teaching, opportunities for ward instruction, and demonstration of ward methods. Group participation in demonstrations. Not a required course.

PHILOSOPHY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Albert, J. Wilson, Zimmerman.
SAN FERNANDO VALLEY CAMPUS: Ford.

COURSES OF INSTRUCTION

General Prerequisite: Consent of instructor.

104 Ethics (3) Fall, Spring

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) Fall, Spring

Basic types of philosophy, such as materialism, naturalism, idealism, pragmatism, and realism. Attention to certain major problems: space-time and relativity, the relationship of science to philosophy, human freedom, the nature of knowledge, ethics, aesthetics, belief in God, and the implications of philosophy for the contemporary social scene.

138 Comparative Religions (3) Fall, Spring

A comparative study of the world's living religions: Buddhism, Confucianism, Judaism, Christianity, Islamism, and others. Concepts of deity, the immortality of the soul, methods of salvation, and the influence of environment and culture upon these beliefs.

PHYSICAL EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

RAMONA-VERMONT CAMPUSES: Adams, Cake, Deeds, Downey, Elliot, Ennen, J. Johnson, L. Johnson, Jumonville, Mochel, Nilsen, Reeder, Reeves, Tillman, Warner, Wroblicky, Yerrington (Department Head for Women).
Part time: Berg.

SAN FERNANDO VALLEY CAMPUS: Fernelius, Fisher, O'Brien, Wise.

BACHELOR'S DEGREE CURRICULA

Major in Physical Education

Designed for students who expect to become physical education leaders in other than public school programs. Satisfactory completion of the department's Skills Tests is required for graduation.

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
Human Anatomy	3 units
General Physiology	3 units

Upper Division

P.E. activities	2 units
P.E. 114—Kinesiology	3 units
P.E. 116—Physiology of Activity	3 units
P.E. 117—Prevention and Care of Athletic Injuries (required for men; open to women).....	2 units
P.E. 132—Methods in Teaching Individual Sports.....	2 units
P.E. 144—Organization and Administration of P.E. and Athletics	2 units
P.E. 145—History and Principles of Physical Education	2 units
H. & S.Ed. 150—School Health Education	3 units
Rec.Ed. 179—Organization and Administration of Club Activities <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. 130—Methods of Teaching Team Sports for Women (2)	
P.E. 135—Methods of Coaching Tennis and Swimming (2)	
P.E. 160—Methods of Coaching Football (2)	
P.E. 161—Methods of Coaching Basketball (2)	
P.E. 162—Methods of Coaching Track and Field (2)	
P.E. 163—Methods of Coaching Baseball (2)	
Select from the following	4-6 units
P.E. 115—Corrective Physical Education (2)	
P.E. 120—Physical Education in Elementary Schools (3)	
Rec.Ed. 161—Social Recreation Leadership (2)	

Special Secondary Teaching Major

Designed for students who plan to teach in the secondary schools. See also pages 123-124 for professional education requirements.

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
Human Anatomy	3 units
General Physiology	3 units

Upper Division

P.E. activities	2 units
P.E. 114—Kinesiology	3 units
P.E. 115—Corrective Physical Education	2 units
P.E. 116—Physiology of Activity	3 units
P.E. 117—Prevention and Care of Athletic Injuries (required for men; optional for women)	2 units
P.E. 132—Methods in Teaching Individual Sports	2 units
P.E. 144—Organization and Administration of Physical Education and Athletics	2 units
P.E. 145—History and Principles of Physical Education	2 units
H. & S.Ed. 150—School Health Education	3 units
H. & S.Ed. 121—First Aid <i>or</i>	
H. & S.Ed. 131—Methods of Teaching First Aid	1-2 units
P.E. 121—Water Safety <i>or</i>	
P.E. 131—Methods of Teaching Water Safety	1-2 units
From the following courses select	6-10 units
P.E. 125—Methods of Teaching Square and Round Dance (2)	
P.E. 126—Methods of Teaching Modern Dance (2)	
P.E. 127—Methods of Teaching Social Dance (2)	
P.E. 130—Methods of Teaching Team Sports for Women (2)	
P.E. 135—Methods of Coaching Tennis and Swimming (2)	
P.E. 160—Methods of Coaching Football (2)	
P.E. 161—Methods of Coaching Basketball (2)	
P.E. 162—Methods of Coaching Track and Field (2)	
P.E. 163—Methods of Coaching Baseball (2)	
Recreation education course, approved by adviser	2 units
(P.E. 140—School Camping and Outdoor Education is acceptable.)	

General Secondary Teaching Major

The general secondary teaching major in physical education is the same as the major for the special secondary credential. See also pages 122-123 for professional education requirements. A teaching minor and a graduate year including additional professional education are required for the general secondary credential.

General Secondary Teaching Minor

Designed for students who plan to teach in the secondary schools. See also pages 122-123 for professional education requirements. A teaching major in a different teaching field is also required for the general secondary credential.

Lower Division

Physical education activities, at least one course in each area	4 units
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Upper Division

Physical education activities.....	2 units
Physical education methods.....	2 units
Physical education science.....	2 units
Recreation education.....	2 units
Additional courses with the division selected with the approval of the adviser.....	8 units
	20 units

MASTER OF ARTS DEGREE

Prerequisite: Acceptable undergraduate preparation in the field of physical education.

1. Required courses:
 - P.E. 299—Graduate Project or Comprehensive Examination..... 0-3 units
 - P.E. 200—Tests and Measurements in Physical Education..... 2 units
 - P.E. 222—Seminar in Current Problems in Physical Education..... 3 units
2. Additional Physical Education "200" courses..... 2-5 units
3. Additional upper division or graduate courses within the Division of Health and Safety, Physical Education, Recreation and Athletics..... 5 units
4. Courses outside the Division of Health and Safety, Physical Education, Recreation and Athletics..... 6 units
5. Electives..... 9 units

COURSES OF INSTRUCTION

100 Varsity Athletics

Counts as activity credit for one semester only as follows:

- 100A Baseball (1) Spring
- 100B Basketball (1) Fall, Spring
- 100C Football (1), Fall, Spring
- 100D Track and Field (1) Spring
- 100E Water Polo (1) Fall
- 100F Cross Country (1) Fall
- 100G Wrestling (1) Fall
- 100H Golf (1) Spring
- 100I Tennis (1) Spring
- 100J Bowling (1) Fall
- 100K Swimming (1) Spring
- 100L Gymnastics and Tumbling (1) Spring

101 Aquatic Skills (1) Fall, Spring

Practice in performance and analysis of swimming, diving and other aquatic skills.

102 Tennis Skills (1) Fall, Spring

Development of proficiency in tennis skills, including rules, tournaments, court etiquette, and officiating.

103 Golf Skills (1) Fall, Spring

Development of skill in playing golf, including rules, etiquette, background, and analysis of techniques.

105A Advanced Team Sports Skills (1) Fall

Advanced practice in performance techniques and analyzing procedures for various team sports. Selection of activities dependent upon the needs of students enrolled.

105B Advanced Dual and Individual Sports Skills (1) Spring

Practice in advanced performance techniques and analyzing procedures for various individual and dual sports. Selection of activities dependent upon the needs of students enrolled.

105C Gymnastic Skills (1) Fall, Spring

Development of proficiency in the skills of gymnastics, tumbling, warm-up exercises, and marching; knowledge of rules, safety, care of equipment.

106 Basic Dance Skills (1) Fall, Spring

Survey, analysis, and practice of the fundamental dance skills of all types of dancing.

107 Badminton Skills (1) Fall, Spring

Development of skill in playing badminton. The etiquette, rules, background, and techniques of playing badminton.

108 Archery Skills (1) Fall, Spring

Development of skill in archery. The rules, etiquette, safety factors, and techniques of archery.

114 Kinesiology (3) Fall, Spring

Prerequisite: Human Anatomy. Analysis of joint and muscular action in relation to movement; application of the basic principles of mechanics to efficiency of performance in a variety of selected physical education activities.

115 Corrective Physical Education (2) Fall

Prerequisites: Human Anatomy. Administration of group and individual exercises for the prevention and correction of various functional disorders and structural defects; laboratory practices.

116 Physiology of Activity (3) Fall, Spring

Prerequisite: Physiology. Effects of various types of physical activity upon the circulatory, respiratory, and other physiological processes. How skill, endurance, fatigue, training, and related factors affect athletic performance.

117 Prevention and Care of Athletic Injuries (2) Fall, Spring

Prerequisites: Physiology or Human Anatomy. Conditioning for the prevention of injuries; techniques of massage, bandaging, and taping; immediate care of injuries; methods of recovery treatment.

120 Physical Education in Elementary Schools (3) Fall, Spring

Physical education in the elementary schools; program organization and activities.

121 Water Safety (1) Fall, Spring

Red Cross senior lifesaving.

125 Methods of Teaching Square and Round Dance (2) Fall

Techniques and materials for teaching and calling square and round dances.

126 Methods of Teaching Modern Dance (2) Spring

Prerequisite: Elementary Modern Dance, or consent of instructor. Techniques and organization of teaching modern dance in the elementary and secondary schools; history, philosophy, principles, composition.

127 Methods of Teaching Social Dance (2) Fall

Techniques and materials for teaching the basic steps of the waltz, fox trot, tango, samba, and other current popular dances.

128 Methods of Teaching Rhythms in Elementary Schools (2) Spring

Techniques and materials for the elementary school teacher in fundamental rhythms, rhythmic interpretations, dramatized rhythms, singing games; practice in the use of various devices of accompaniment.

130 Methods of Teaching Team Sports for Women (2) Fall

Prerequisites: Basketball, hockey, softball, and speedball activity, or consent of instructor. Techniques and organization of teaching basketball, hockey, softball, and speedball in the secondary schools.

131 Methods of Teaching Water Safety (2) Spring

Prerequisite: Current Red Cross certificate in senior lifesaving. American Red Cross course which qualifies instructors in water safety.

132 Methods of Teaching Individual Sports (2) Fall, Spring

Prerequisite: Individual and dual sports activity, including gymnastics and tumbling, or consent of instructor. Techniques of teaching individual and dual sports; methods of organizing such instruction.

135 Methods of Coaching Tennis and Swimming (2) Spring

Prerequisite: Tennis and swimming activity, or consent of instructor. Problems involved in coaching tennis and swimming; methods of coaching skills and techniques of competitive tennis and swimming; laboratory practice.

137 Sports Officiating for Men (2) Fall

Problems and techniques of officiating various sports for boys and men.

138 Sports Officiating for Women (2) Spring

Prerequisites: Physical Education 130, 132, and 135, or consent of instructor. Problems, techniques, and practice in officiating various sports for girls and women. Leads to local and national officials ratings.

140 School Camping and Outdoor Education (2) Fall

Aims, organization, administration, and program of the school camp.

144 Organization and Administration of Physical Education and Athletics (2) Fall, Spring

Administrative policies, selection of staff; construction and use of facilities; class organization, finances and budgeting; purchase and care of equipment; publicity in physical education, athletics, and intramurals.

145 History and Principles of Physical Education (2) Fall, Spring

Problems, issues, and controversies in the field of physical education; history, development, and current practices.

160 Methods of Coaching Football (2) Fall

Prerequisite: Football activity, or consent of instructor. Techniques of coaching, organization of practice; handling of players; principles of competition; systems of offense and defense; purchase and care of equipment.

161 Methods of Coaching Basketball (2) Fall

Prerequisite: Basketball activity, or consent of instructor. Techniques of coaching, organization of practice; handling of players; principles of competition; systems of offense and defense; purchase and care of equipment.

162 Methods of Coaching Track and Field (2) Spring

Prerequisites: Track and field activity or consent of instructor. Problems involved in coaching track and field; methods of coaching skills and techniques, track, and field events, laboratory practice.

163 Methods of Coaching Baseball (2) Spring

Prerequisite: Baseball or softball activity or consent of instructor. Problems involved in coaching baseball; methods of coaching skills and techniques of baseball; laboratory practice.

196A-B-C-D Special Projects * (1-2) Fall, Spring

Prerequisites: Consent of instructor and the division chairman. Participation, under faculty supervision, in planning, preparing, presenting, and coaching of Los Angeles State College sponsored intramural and intercollegiate athletic activities.

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

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

* Eight units is the maximum number permitted in 196 or a combination of 196 and 198. No more than 4 units may be earned in any one activity. 196 and 198 may not be taken concurrently.

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES**200 Tests and Measurements in Physical Education (2)**

Prerequisite: Graduate status with major in physical education or consent of instructor. Test of anthropometry, organic function, native physical capacity, achievement, and knowledge; their uses in the physical education program.

210 Supervision of Physical Education (2)

Prerequisite: Graduate status with major in physical education or consent of instructor. History, philosophy, principles, and techniques of supervising physical education in the elementary and secondary schools; professional qualities and preparation of supervisors.

222 Seminar in Current Problems in Physical Education (3)

Prerequisite: Graduate status with major in physical education or consent of instructor. Consideration of current problems in physical education through analysis of literature and research findings.

245 Program Planning in Physical Education (2)

Prerequisites: Graduate status with major in physical education or consent of instructor. History, background, philosophy, and current types of physical education instructional programs at the elementary, junior high school, high school, and junior college levels; methods of planning functional physical education curricula; adaptation of programs to facilities and staff.

246 Problems in Intramural and Interscholastic Athletics (2)

Prerequisite: Graduate status with major in physical education or consent of instructor. Current problems and recent trends in the conducting of intramurals and interscholastic athletics. Principles, procedures, and organization in competitive athletics.

299 Graduate Project (3) Fall, Spring

PHYSICAL SCIENCES

(In the Division of Natural Sciences)

RAMONA-VERMONT CAMPUSES: Johnston (Division Chairman), Andreoli, Ehlig, Jacobs, Peterson, Richmond, Welsh.

SAN FERNANDO VALLEY CAMPUS: Potter.

BACHELOR'S DEGREE CURRICULA

Major in Physical Science

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, or employment in certain industries or governmental agencies as a chemist or physicist, he may select, with the aid of the adviser, a course of study designed to achieve this objective.

Lower Division

General Chemistry	10 units
Quantitative Analysis	3 units
General physics	8 units
*College mathematics	6 units

(Courses recommended but not required include organic chemistry, general biology, calculus.)

Upper Division

Select from upper division chemistry courses	7 units
Select from upper division physics courses	6 units
Select from upper division biological science courses	3 units
Chemistry 190AB—Seminar	2 units
Elective courses in the physical sciences approved by adviser	6 units

NOTE: Physical Science 125 may not be included in the above major.

General Secondary Teaching Major in Physical Science and General Science

See also pages 122-123 for professional education requirements. 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	13-19 units

* Not required of students who present a minor in mathematics.

Courses to be selected from the biological sciences with the approval of the adviser (may be satisfied by acceptable lower division courses).....	6 units
Chemistry 190AB—Seminar	2 units
	<hr/> 46 units

NOTE: When 24 units of upper division work in the teaching major are completed the candidate may apply for the B.A. degree, providing the other requirements for the degree are met.

General Secondary Teaching Minor in Physical Science and General Science

See also pages 122-123 for professional education requirements. A teaching major in a different teaching field is also required.

Basic courses in chemistry, physics or geology (some approved electives in closely related fields may also be included).....	8-11 units
Basic courses in biological science.....	3-4 units
Physical Science 125—Physical Science Activities.....	3 units
Electives to be selected with the approval of the adviser.....	3-6 units
	<hr/> 20 units

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

COURSES OF INSTRUCTION

ASTRONOMY

105 History of Astronomy (3) Fall, Spring

Important astronomical concepts and problems from the standpoint of their historical development and the contributions of great astronomers.

CHEMISTRY

104 Colloid Chemistry (3) Fall

Prerequisites: General chemistry and organic chemistry or the equivalent. Principles of colloid chemistry and industrial applications, with special attention given to topics such as adsorption, surface tension, surface films, polymers and colloidal electrolytes.

105 Industrial Chemistry (3) Spring

Prerequisites: Year of general chemistry and at least one semester of organic chemistry. Fundamental chemical and physical principles applied to typical industrial processes. Industrial stoichiometry and unit processes are given special attention.

106 Advanced Organic Chemistry (3) Spring

Prerequisite: Lower division organic chemistry. The theoretical aspects of organic chemistry and the less common organic compounds.

108A Biochemistry (3) Fall, Spring

Prerequisite: Organic chemistry. A study of carbohydrates, fats, proteins, enzymes, and vitamins, with special reference to the nutrition of the living cell. (Must be taken concurrently with 108B.)

108B Biochemistry Laboratory (1) Fall, Spring

A laboratory course to accompany 108A. Laboratory three hours.

111A Clinical Biochemistry (3) Spring

Prerequisite: Chemistry 108AB. A study of biochemical methods for the analysis of blood, urine, and other body fluids. Emphasis on standard clinical procedures. (Must be taken concurrently with 111B.)

111B Clinical Biochemistry Laboratory (1) Spring

A laboratory course to accompany 111A. Laboratory three hours.

112 Organic Analysis (2) Spring

Prerequisites: Quantitative analysis with grade of at least "C," and organic chemistry. Preparation and identification of organic compounds. Laboratory six hours.

113 Advanced Inorganic Chemistry (3) Fall

Prerequisite: Year of general chemistry. A detailed study of the inorganic elements based on the periodic grouping and stressing electronic configuration, physical and chemical properties.

114A-B Physical Chemistry (3-3) Year course

Prerequisite: A year of general chemistry, mathematics (calculus), and general physics. Fundamental physical laws and theories as applied to chemistry. Lecture three hours. (Must be taken concurrently with 114C-D.)

114C-D Physical Chemistry Laboratory (1-1) Fall, Spring

Laboratory courses to accompany Chemistry 114AB. Laboratory three hours.

124 Chemistry of Plastics (3) Spring

Prerequisites: Year of general chemistry and one year of organic chemistry. The resinous and the plastic state, polymerization and the mechanism of polymerization. Plastic properties and their relation to chemical structure. Types of plastics and methods of fabrication considered.

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

Prerequisites: Senior standing and consent of instructor. Reviews of current literature and concepts in the various fields of chemistry. Required of all seniors majoring in the physical sciences.

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

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

199 Independent Study (1-3) Fall, Spring

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

CONSERVATION

Conservation 161 is acceptable as an elective course for natural science general education requirement.

141 Conservation of Wildlife (3) Spring

Open only to qualified majors and minors in the biological and physical sciences. Basic environmental needs of wildlife, value of wildlife to humans, methods involved in conservation of this resource, current problems involved.

161 Conservation of Natural Resources (3) Fall, Spring

Physical and biological factors involved in the depletion of the natural resources of the United States, such as soil, water, minerals and forests. The need for and application of conservation practices. Credit not given for both this course and Conservation 171. (Not accepted for majors or minors.)

171 Conservation Problems and Practices (3) Fall

Prerequisite: Open only to qualified majors and minors in the biological and physical sciences. An ecological approach to the biological and physical factors involved in the conservation of natural resources; consideration of conservation practices. Credit not given for both this course and Conservation 161.

GEOLOGY**101 Principles of Geology (3) Fall, Spring**

Prerequisite: Upper division standing. Principles of physical geology. Not open to students with credit in undergraduate geology. Geologic features will be observed on field trips.

110 Economic Geology (3) Spring

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

111 Rocks and Minerals of California (3) Fall

Prerequisite: A year of high school chemistry or the equivalent. Minerals and rocks which make up the earth; their occurrence, origin, uses, and recognition. Special emphasis on California rocks and minerals.

115 Geology of California (3) Fall, Spring

Prerequisite: Course in lower division geology or Geology 101. Emphasizes geologic history of California with brief treatment of stratigraphy, structure and economic geology.

124 Petrology (4) Fall

Prerequisites: Course in mineralogy and crystallography. The origin of rocks and their identification without the aid of a polarizing microscope. Lecture two hours; laboratory six hours.

141 Structural Geology (3) Spring

Prerequisites: Historical geology and trigonometry. Lectures, problems, and map studies for the recognition and interpretation of structures of the earth's crust.

PHYSICAL SCIENCE

Physical Science 100 is a general education course. Physical Science 200AB is a graduate course for the physical science major and physical science and general science major.

100 Survey of Physical Science (3) Fall, Spring

No prerequisites. An overview of the physical sciences as applied to modern living. Credit not given if student has taken a college course in physics or chemistry.

125 Physical Science Activities (3) Fall

Practical field and laboratory activities in geology, astronomy, meteorology, physics, and chemistry. Field work in collecting rocks, studying stars, making weather observations, and examining local resource areas of practical physics and chemistry. Designed for physical science and general science majors and minors. Lecture two hours; laboratory two hours plus field trips.

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

Reviews and discussions of current literature to provide an acquaintance with present developments in physical sciences.

PHYSICS**110 Modern Physics (3) Fall, Spring**

Prerequisite: Lower division physics or chemistry. The basic principles of modern particle physics and electronics. Involves a minimum of mathematics and stresses accurate understanding of the basic concepts. Recommended for teaching majors. Lectures and demonstrations.

111 Electrical Measurements (3) Spring

Prerequisite: General physics (electricity and magnetism). Theory and application of electrical and magnetic measuring instruments. Includes error analysis and application of modern techniques to measurement of radiation and light, etc., as well as electrical quantities. Lecture two hours; laboratory three hours.

112 Basic Physical Electronics (3) Fall

Prerequisite: General physics (electricity and magnetism). Design of electric circuits and their application to laboratory problems. Begins with basic principles and develops a working knowledge of standard amplifiers and control circuits. Mathematical considerations are not stressed.

123 Analytical Mechanics (3) Spring

Prerequisites: Year of general physics and integral calculus or equivalent. The principles of Newtonian mechanics and the mathematical treatment of the principles of kinematics and kinetics.

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

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

199 Independent Study (1-3) Fall, Spring

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

POLICE SCIENCE AND ADMINISTRATION

(In the Division of Technical Sciences)

RAMONA-VERMONT CAMPUSES: G. D. Gourley (Department Head).
Part-time: Bennett, Burger, Collins, Davis, Duncan, Fulton, Glavas, Gourley, Houghton, Iannone, Ireland, Koenig, Murdock, Puthuff, Rock, Simon, Stallings, Walton.

BACHELOR'S DEGREE CURRICULUM

Major in Police Science and Administration

Designed for either inservice or preservice students who wish to prepare for, or to improve themselves in, the several forms of police work.

A total of 128 units is required for the B.S. degree in Police Science and Administration, including a minimum of 48 units within the major, not less than 34 units of the major being in upper division work.

Lower Division

Police Administration	2 units
Basic Legal Procedure	2 units
Basic Laboratory and Scientific Techniques	2 units
Investigation	2 units
Criminal Law	3 units

Upper Division

Police Science 131—Police Administration	3 units
Police Science 134—Police Ethics	3 units
Police Science 136—Police Patrol	3 units
Police Science 138—Investigation of Major Crimes	3 units
Police Science 139—Traffic Regulation and Control	3 units
* Sociology 155—Criminology	3 units
Police Science 197—Special Police Problems	3 units
Select from the following:	
Administration	3 units
Police Science 133—Police Personnel Supervision (3)	
Police Science 143—Comparative Police Administration (3)	
Police Science 147—Correctional Administration (3)	
Police Science 149—Police Planning (3)	
Evidence and Legal Procedure	3 units
Police Science 132—Evidence for Law Enforcement Officers (3)	
Police Science 135—Criminal Procedure (3)	
Laboratory and Scientific Techniques	7 units
Police Science 137—Criminalistics (3)	
Police Science 142—Interrogation and Lie Detection (3)	
Police Science 144—Police Photography (2)	
Police Science 145—Forensic Ballistics and Explosives (2)	
Criminal Law	3 units
Police Science 141—Juvenile Law (3)	
Police Science 152—Law for the Police Supervisor (3)	

* May be met in lower division.

COURSES OF INSTRUCTION

Prerequisites: Completion of appropriate lower division introductory courses, or equivalent training, or consent of instructor.

131 Police Administration (3) Fall, Spring

Analysis of the functional divisions of the modern police department; applications of principles of organization and administration; structure and functions of the police record system; police statistical methods; administrative reports and analyses.

132 Evidence for Law Enforcement Officers (3) Fall, Spring

Leading rules and principles of exclusion and selection; burden of proof; nature and effect of presumption; proof of authenticity and contents of writings; examination, competency, and privilege of witnesses; respective functions of court and jury.

133 Police Personnel Supervision (3) Spring

Administration of police personnel; setting up entrance standards; techniques of selection and examination; training; probation; rating; promotion; discipline; morale; promotional examination and merit system.

134 Police Ethics (3) Fall, Spring

The relationship of actions to motives; concepts of ethical conduct and the rules and principles used to direct them; institutional ethics; personal and professional standards; historical problems in ethics from the law enforcement point of view; present day conflicts and compromises.

135 Criminal Procedure (3) Fall

Criminal procedure from apprehension to conviction, based on the Penal Code of California; arrest with and without warrants by police officers; arrest by private citizens; extradition proceedings; information and indictment; functions of the grand jury and coroner's inquest; procedure at the trial; appeals and new trials.

136 Police Patrol (3) Fall

Responsibilities, powers, and duties of the uniformed patrolman; patrol procedure; mechanics of arrest; transportation of prisoners; raids; riot and crowd control; crime prevention functions of the officer on patrol.

137 Criminalistics (3) Fall, Spring

Lectures, demonstrations, and actual use of laboratory equipment in the collection, preservation, analysis, and interpretation of physical evidence of various types, including: footprints, tiretracks, toolmarks, blood, hair, textiles, stains, dust, dirt, and debris; narcotic identification and determination of intoxication; casing, moulage, photomicrography; spectrography; court presentation and expert testimony.

138 Investigation of Major Crimes (3) Fall, Spring

Investigative methodology in the field of major crime; relations of the detective with other law enforcement divisions; techniques and principles for gathering, evaluating, and preserving physical evidence; modus operandi; personal identification; interrogation, preliminary and follow-up investigations.

139 Traffic Regulation and Control (3) Spring

Organization and functions of the police traffic division; educational, engineering, and enforcement methods; technique of the traffic survey; traffic accident investigation; elements of a sound traffic program.

141 Juvenile Law (3) Fall, Spring

The California Juvenile Court Act, The Youth Authority, and other legislation governing juvenile delinquency and crime prevention; rights of juveniles as distinguished from those of adults; sociological and psychological development in California law in the prevention of crime by juveniles, including probation procedures and institutional care.

142 Interrogation and Lie Detection (3) Fall, Spring

Survey of modern methods of handling witnesses, informants, and suspects; evaluation of so-called truth serums, lie-detectors, and other laboratory devices; the psychology and physiology involved in deception.

143 Comparative Police Administration (3) Fall, Spring

A comparative approach to the study of administrative patterns in the police services of selected American cities and in European police systems.

144 Police Photography (2) Spring

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) Fall, Spring

Prerequisite: Consent of instructor. Lectures, demonstrations, and practical work in the preparation, analysis, and court presentations of ballistics evidence, including weapons, projectiles, cartridges, propellants; commercial, military, and homemade explosives, their composition, stability, and destructive force.

147 Correctional Administration (3) Fall

Aims and objectives of correctional administration; laws; records; public relations; types of personnel and relationships to programs, including custodial and noncustodial interrelationships and divisions; physical plant and security; employment and care and treatment program.

148 The Police and the Public (2) Spring

Training of uniformed officers in securing public cooperation and approval; coordination of internal and external public relations on the

staff level; use of photographs, radio, television, and press releases, particularly in cases affecting juveniles and race and other special group relations; public appearances of peace officers; special Southern California problems.

149 Police Planning (3) Fall

Organization for planning and research as a separate police function; theoretical factors in determination of need and objective; the planning process as an aid to administrative operation in procedure, tactics, operations, and equipment-budget-building on all law enforcement levels; police planning as related to municipal, county, and state planning.

151 Vice Control (3) Spring

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of lotteries and other forms of gambling and gambling methods, and of prostitution and other sex crimes from the law enforcement point of view.

152 Law for the Police Supervisor (3) Fall, Spring

Practical methods whereby the police officer can determine what the law is; jurisdiction and other legal problems involved in the organization and functions of administrative agencies in fields related to law enforcement; specific problems of administrative law from the point of view of the police supervisor; analysis of new legislation and recent judicial trends; problems with regard to arrest, searches and seizures, civil rights, etc.

197 Special Police Problems (3) Fall, Spring

Problems inherent in the special economic, social, and political status of the police officer; police attitudes toward minority groups and professional police methods in handling tension situations; causes, methods of prevention, and handling of race riots, strikes, and other disturbance situations by the police; use of special equipment, including chemical agents, and the suppressing of civil disturbances. Research project and report required of each student in his particular field of interest.

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

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

PSYCHOLOGY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Wilkening (Department Head), Baker, Balvin, Bernberg, Clark, Diamond, Goldenberg, Gunter, Haralson, Hutchinson, Lewis, Thompson, Troup, Wang.

SAN FERNANDO VALLEY CAMPUS: Weckler.

BACHELOR'S DEGREE CURRICULA

Major in Psychology

The major in psychology, consisting of 30 units of upper division courses, prepares students for graduate professional training as psychologists (Option 1), while offering opportunity for specialized training in such areas as counseling (Option 2), and industrial psychology (Option 3).

Lower Division

Introduction to Psychology.....	3 units
Elementary Physiological Psychology <i>or</i> Personal and Social Adjustment.....	3 units

Recommended: One course from each of the following groups:

1. Algebra, analytic geometry, or mathematics for social and life sciences.
2. Sociology or anthropology.
3. Physics or chemistry.
4. Physiology, zoology, or genetics.
5. Philosophy, scientific method, logic.

Upper Division

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

Psychology 114—Experimental Psychology.....	3 units
Psychology 116—Physiological Psychology.....	3 units
Psychology 120A—Elementary Statistical Methods.....	3 units
Psychology 126B—Contemporary Schools of Psychology.....	3 units

B. Option requirements (select any 18 units with consent of an adviser from Option 1, 2, or 3).

Option 1—General

Psychology 110—Abnormal Psychology.....	3 units
Psychology 112—Child Psychology.....	3 units
Psychology 120B—Statistical Methods in Psychology.....	3 units
Psychology 126A—History of Psychology.....	3 units
Psychology 127A—Introduction to Psychological Testing (group).....	3 units
Psychology 130—Psychology of Personality.....	3 units
Psychology 142—Human Communication.....	3 units
Psychology 145—Social Psychology.....	3 units
Psychology 164—Psychology of Learning.....	3 units
Psychology 170—Psychology of Marital Adjustment.....	3 units
Psychology 197—Psychology Proseminar.....	3 units

Option 2—Counseling

Psychology 110—Abnormal Psychology	3 units
Psychology 112—Child Psychology	3 units
Psychology 113—Psychology of Adolescence	3 units
Psychology 127A—Introduction to Psychological Testing (group).....	3 units
Psychology 127B—Psychological Testing (individual).....	3 units
Psychology 130—Psychology of Personality.....	3 units
Psychology 145—Social Psychology	3 units
Psychology 154—Survey of Clinical Psychology.....	3 units
Psychology 160—Counseling and Interviewing.....	3 units
Psychology 170—Psychology of Marital Adjustment.....	3 units
Psychology 181—Employment and Personnel Psychology.....	3 units
Education 188—Psychology and Education of the Exceptional Child	3 units

Option 3—Industrial Psychology

Psychology 120B—Statistical Methods in Psychology.....	3 units
Psychology 127A—Introduction to 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, busi- ness, sociology, or government).....	12 units

MASTER'S DEGREES IN PSYCHOLOGY

The graduate programs are built on the foundation of undergraduate preparation. The master's degrees require intensive directed study in psychology aimed at depth of understanding.

MASTER OF SCIENCE DEGREE

1. Prerequisite: Acceptable undergraduate preparation in psychology, including completion of core requirements. (See major in psychology.)
 2. Area of specialization
 - a. Psychology 120B—Statistical Methods in Psychology..... 3 units
 - b. Psychology 290A or B—Seminar in Advanced General Psychology... 3 units
 - c. Minimum of additional "200" courses in psychology..... 12 units
 - d. Comprehensive written examinations in selected fields of psychology.
 3. Other courses approved in advance by the adviser..... 12 units
 4. Directed field experience or field study..... 6 units
- (This requirement may be waived for students with adequate prior experience in the occupational field. The adequacy of this prior experience will be determined by the department.)

MASTER OF ARTS DEGREE

1. Prerequisite: Same as Master of Science degree.
2. Area of specialization
 - a. Psychology 290A or B—Seminar in Advanced General Psychology... 3 units
 - b. Minimum additional "200" courses in psychology..... 9 units
 - c. Approved courses in psychology; may be upper division..... 3 units
 - d. Comprehensive written examinations in selected fields of psychology.
3. Approved courses outside the area of psychology..... 6 units
4. Other courses approved in advance by the adviser..... 9 units

COURSES OF INSTRUCTION

General prerequisites: One year of college psychology, or consent of instructor. Exception: no prerequisite for Psychology 100.

100 Survey of Psychology (3) Fall, Spring

An introduction to the psychological processes of perception, learning, thinking, motivation, intelligence, personality, and social behavior. Facts and principles pertinent to an analysis of everyday behavior. Not open to students who have completed an introductory course in psychology.

106 Mental Deficiency (3) Fall, Spring

The nature and causes of mental deficiency; physiological and psychological characteristics. Problems of social control, including education, social adjustment, institutionalization, and community responsibility.

108 Mental Hygiene (2) Fall, Spring

Social and emotional adjustment and personality in the light of mental hygiene principles; special attention to adjustment problems of the college student.

110 Abnormal Psychology (3) Fall, Spring

Historical overview of abnormal psychology; criteria of abnormal behavior; symptomatology; disturbing forces in personality formation; therapeutic considerations.

112 Child Psychology (3) Fall, Spring

Developmental trends in infancy and childhood. Study of current literature.

Credit will not be given for both Psychology 112 and Education 102.

113 Psychology of Adolescence (3) Fall, Spring

Recommended prerequisite: Psychology 112. Problems of adolescents; physical and social development during adolescence.

114 Experimental Psychology (3) Fall, Spring

Prerequisite: Psychology 120A. Experiments in problems of human learning, remembering, perception, and personality. Emphasis on basic problems of research-design and experimental techniques. Lectures and laboratory.

116 Physiological Psychology (3) Fall, Spring

The relationship between integrated behavior and physiological processes. Study of theories relating psychology and physiology.

120A Statistical Methods in Psychology (3) Fall, Spring

Prerequisite: Mathematics 15 or equivalent. Commonly used measures of central tendency, variability and correlation; significance of individual scores and of individual and group differences; elementary principles of research design.

120B Statistical Methods in Psychology (3) Spring

Prerequisite: Consent of instructor. More advanced techniques of correlation analysis of variance, and factor analysis, as applied to testing procedure and research. Further study of research design.

126A History of Psychology (3) Fall

Consideration of the historical development of psychology from its origins in ancient philosophy and science to the end of the nineteenth century.

126B Contemporary Psychology (3) Fall, Spring

Contemporary psychological theories and systems in their historical perspective and present position. (Formerly called "Contemporary Schools of Psychology.")

127A Introduction to Psychological Testing (Group) (3) Fall, Spring

Prerequisite: Psychology 120A or equivalent. Basic concepts of psychologic measurement as applied to the construction, evaluation, and use of group-administered tests of intelligence, aptitude, interest, personality, etc.

127B Psychological Testing (Individual) (3) Fall, Spring

Prerequisite: Psychology 120A and 127A or equivalent. The concept of intelligence; the most commonly used tests of intelligence; emphasis on practical experience in administering and interpreting individual intelligence tests (especially the Revised Stanford-Binet and the Wechsler scales).

**127C Psychological Testing (Individual Performance Tests) (3)
Spring**

Prerequisite: Psychology 127B. Practical experience in administering the Grace Arthur, Cornell-Coxe, and other performance and aptitude tests.

127D Psychological Testing (Applied to the Mentally and Physically Atypical) (3) Fall

Prerequisite: Psychology 127B. Selection, administration, and interpretation of tests used for appraising the atypical individual. Survey of etiological theories.

130 Psychology of Personality (3) Fall, Spring

Biological and cultural determinants of personality; dimensions of personality and their measurement or appraisal; integration of personality as related to adjustment.

142 Human Communication (3) Spring

Psychological factors involved in the creation and manipulation of symbols. Art and science as forms of communication. Emphasis on psychological aspects of communication media (radio, television, and motion picture).

144 Attitude and Opinion Measurement (3) Fall

Prerequisite: Psychology 120A. Attitude scales and public opinion surveys. Design of investigation, sampling methods, analysis of results, and applications to various psychological problems. Field work.

145 Social Psychology (3) Fall, Spring

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group. Credit not given for both Psychology 145 and Sociology 145.

154 Survey of Clinical Psychology (3) Fall, Spring

Prerequisite: Psychology 110. An elementary course in clinical techniques of psychology with consideration of the relationship of diagnosis, therapeutic techniques, and research to the field of clinical psychology.

156 Industrial Psychology (3) Fall, Spring

Psychological techniques in modern industry; selection, training, and evaluation of employees; morale and promotion; fatigue and safety practices.

160 Counseling and Interviewing (3) Fall, Spring

Prerequisite: Consent of instructor and senior or graduate standing. An introduction to the problems and techniques of counseling and interviewing. Presentation of the attitudes and objectives of the counselor and counselee.

164 Psychology of Learning (3) Fall, Spring

A consideration of major theoretical systems of learning; Hull, Guthrie, Tolman, Skinner. Analysis and interpretation of experimental literature.

170 Psychology of Marital Adjustment (3) Fall, Spring

Problems of money, in-laws, sex, etc., considered primarily as symptoms of a disordered personality. Emphasis on the psychological insights necessary for adjustment to self and others and to social and cultural institutions.

180 Psychology of Advertising and Selling (3) Fall

The relative strength of the desires in buying; attention value of form, size, color, and typographical layout and methods of measuring the effectiveness of advertisements; characteristics of salesmen. Practical projects in cooperation with advertising agencies and various sales groups.

181 Employment and Personnel Psychology (3) Fall

Prerequisite: Psychology 120A. The application of psychological principles to the technical problems involved in developing a personnel testing program and in appraising its effectiveness; employment procedures; job success.

183 Psychology of Labor Relations (3) Spring

Exploration of the human relations involved with union and management; psychological aspects of conflict and cooperation between labor and management; the role the psychologist plays in union relations. Field work and guest speakers.

197 Psychology Proseminar (3) Fall, Spring

Senior course: recommended for all psychology majors. An introduction to psychological method. Designed to prepare students for graduate work in psychology.

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

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

199 Independent Study (1-3) Fall, Spring

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare both written and oral reports. Project selected in conference with the sponsor at the time of registration; progress meetings held regularly thereafter until the end of the semester. (Open only to students majoring in Psychology.)

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in psychology.

212 Behavior Disorders in Children (3)

Application of principles of psychology to behavior disorders in children. Designed primarily for clinicians, social workers, and parent educators.

215 Advanced Experimental Methods (3)

Emphasis on design of experiments and apparatus employed in psychological research. The student becomes familiar with basic laboratory equipment and designs an experiment in his field of major interest.

227 Psychodiagnostic Testing (3)

Prerequisites: Psychology 127B, 130, 154, and consent of instructor. Clinical application of tests for the measurement of intelligence and personality; evaluation of qualitative aspects and limitations in functioning due to emotional and organic factors and the integration of these findings into the clinical case study.

228A Methods of Appraising Personality (3)

Prerequisite: Psychology 227, and permission of instructor. Appraising personality by means of thematic projective material. Theories of perception and personality as a background for understanding the implications of projective material. Experience in administering and

interpreting the TAT, CAT, MAPS, Four-picture Test, and other thematic material.

228B Methods of Appraising Personality (3)

Prerequisite: Psychology 228A and permission of instructor. Appraising personality by means of the Rorschach Technique: administration, scoring, and basic interpretation.

245 Seminar in Social Psychology (3)

Prerequisites: Psychology 145 and the equivalent of Psychology 142 and 144. Theory, methodology, and applied problems dealing with the complex phenomena of group life. An analysis of the psychological tools for group adjustment; group dynamics, assessment of social attitude, role playing, psycho-drama, etc. Individual projects.

246 Applied Methods for Group and Leadership Situations (3)

Prerequisite: 12 units in courses dealing with human relations and consent of instructor. Study of interpersonal relations and leadership within various 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 and consent of instructor. Experience in applying diagnostic methods to actual clinical cases. Advanced analysis and integration of projective techniques and case study material; emphasis on the effective oral and written presentation of clinical findings.

260 Seminar in Counseling (3)

Prerequisites: Psychology 130 or 154, 160, or their equivalents, and consent of instructor. Intensive class discussion of recorded counseling interviews and of typical counseling situations, coordinated with reading of current literature in this area.

270A-B Seminar in the Psychodynamics of the Family (3)

An approach to a deeper understanding of the personality in family patterns through an analysis of case histories. An extended analysis of the interacting personalities that make up the family with emphasis on group interaction and therapeutic techniques.

272 Practicum in Counseling (3)

Prerequisite: Psychology 260 and consent of instructor. Supervision of field and laboratory experiences in counseling.

290A Seminar in Advanced General Psychology (3)

A critical review of current literature, theories, methods and problems, concerning sensory, learning, and symbolic processes.

RECREATION EDUCATION

(In the Division of Health and Safety, Physical Education,
Recreation and Athletics)

RAMONA-VERMONT CAMPUSES: Willott (Department Head), O'Brien, Tillman. *Part time*: Bahr.

BACHELOR'S DEGREE CURRICULUM

Major in Recreation Education

Designed for students who plan professional careers in recreation. A total of 124 units is required for the B.S. degree in Recreation Education.

Lower Division

Games of Low Organization	2 units
Music in Recreation	2 units
Drama in Recreation	2 units
Principles of Community Recreation	3 units

Upper Division

Required Basic Core Courses

Art 102A—Introduction to Craft Materials, <i>or</i>	
Art 120 —Crafts for the Elementary School, <i>or</i>	
Art 162 —Arts and Crafts in Recreation	2 units
H&S 121—First Aid	1 unit
N.S. 120—Nature in California	3 units
P.E. 132—Methods of Teaching Individual Sports	2 units
R.E. 161—Social Recreation Leadership	2 units
R.E. 175—Organization and Administration of Recreation	3 units
R.E. 176AB—Directed Leadership	4 units
R.E. 177—Community Relations in Recreation	2 units
R.E. 179—Organization and Administration of Club Activities	2 units
R.E. 185—The Recreation Program	2 units
R.E. 187—Dance in Community Recreation, <i>or</i>	
P.E. 125—Methods of Teaching Square and Round Dance	2 units
R.E. 188—Camp Leadership, <i>or</i>	
P.E. 140—School Camping and Outdoor Education	2 units

Required Supporting Courses

Ed. 102—Child Growth and Development	2 units
Ed. 147—Audio-Visual Instruction	2 units
Govt. 163—Public Personnel Administration, <i>or</i>	
Govt. 165—Principles of Employee Supervision	3 units
Psych. 108—Mental Hygiene	2 units
R.E. 189—Philosophy of Recreation	2 units
Soc. 102—Social Processes and Institutions, <i>or</i>	
Soc. 148—Juvenile Delinquency	3 units

COURSES OF INSTRUCTION

160 Special Events in Recreation (2) Fall

The function of, and planning for, festivals and pageants in community and private recreation programs.

161 Social Recreation Leadership (2) Fall, Spring

Leadership techniques in the various social phases of recreation.

175 Organization and Administration of Recreation (3) Fall

Problems encountered in establishing and organizing a community for recreation services. Special emphasis given to governmental control, legislative provision, municipal control, budgets, personnel, departmental organization, and administrative practices.

**176A Directed Leadership in Private Recreation Agencies (2)
Fall, Spring**

Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.

**176B Directed Leadership in Public Recreation Agencies (2)
Fall, Spring**

Prerequisite: Major in Recreation Education. Supervised experience in recreation programs.

177 Community Relations in Recreation (2) Spring

Development of the ability to interpret, promote, and publicize community recreational programs and activities through personal contacts and various publicity media.

178 Industrial Recreation (2) Fall

The fundamental techniques of organization and administration of recreation in industry.

179 Organization and Administration of Club Activities (2) Fall

Techniques in the organization and general program planning for recreation in club activities.

185 The Recreation Program (2) Fall

Problems commonly encountered in planning the content of the recreation program including principles of program construction, scheduling, and evaluation in the various fields of recreation.

187 Dance in Community Recreation (2) Fall, Spring

Conduct of community dancing including advanced techniques in round, square, and social dances.

188 Camp Leadership (2) Spring

Techniques of camp counseling and leadership; some program content; visits to nearby camps.

189 Philosophy of Recreation (2) Fall, Spring

The interpretation of recreation as a basic part of the living process; its importance in individual, community and national life; its social and economic significance; the growing importance of leisure time problems.

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES**270 Seminar: Recreation in Public Education (2) Spring**

Prerequisite: Graduate status or consent of instructor. Uses of educational resources for recreation and community living. The after school program, summer programs, school camping, outdoor education, and adult education.

271 Surveys and Planning in Recreation (2) Fall

Prerequisite: Graduate status or consent of instructor. Planning for recreation services and facilities based on studies and surveys. The scope, content, objectives, procedures, and types of recreation surveys.

275 Seminar in Administration of Public Recreation (2) Spring

Prerequisite: Graduate status or consent of instructor. An analysis of administrative duties and responsibilities, and suggested approaches and methods of administration that have been proved by actual experience.

SOCIAL SCIENCE (In the Division of Social Sciences)

Faculty from the Division of Social Sciences and the College at large.

BACHELOR'S DEGREE CURRICULA

Major in Social Science

The purpose of the social science major is to provide a liberal education with main emphasis in the social sciences.

Lower Division

Basic social science courses chosen from two or three of the following fields _____ 9-12 units

- Cultural Anthropology
- Economics
- Cultural Geography
- Government (Political Science)
- History
- Social Science
- Sociology

Upper Division

Social Science 150—Scientific Method and Applied Logic _____ 3 units

Courses chosen in conference with a social science adviser from fields below:

- One principal field _____ 15 units
- Two other fields: 6 units each _____ 12 units

NOTE: Social Science fields include: cultural anthropology, economics, cultural geography, government, history, social psychology, social science, sociology.

General Secondary Teaching Major in Social Studies

The major in *social studies* has been designed specifically for teachers-in-training who have chosen social studies as their composite field major for the general secondary credential. Completion of this major will prepare students to teach the social sciences commonly taught in the junior high and high schools and junior colleges of California. See also pages 122-123 for professional education requirements. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

10-12 units of basic social science courses from two or three of the social sciences: anthropology, economics, history, geography, government (political science), social science and sociology. The upper division program will be planned to balance courses taken in the lower division.

Upper Division

With the approval of a social studies adviser, 24 units of upper division work will be selected by the candidate in at least four of the following fields (must

include both United States history and United States government). The selection will be made on the basis of the student's future plans, the work taken in the lower division, and the aptitude of the student.

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

Graduate (Fifth Year)

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

NOTE: When 24 units of approved upper division work in the teaching major, and 5 units in professional education are completed, the candidate may apply for the B.A. degree, providing other requirements for the degree have been met.

General Secondary Teaching Minor in Social Studies

See also pages 122-123 for professional education requirements. 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.

MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires directed study in the social sciences aimed at increased understanding. See page 56 for the total requirements for the master of arts degree.

1. Prerequisite: Acceptable undergraduate preparation in social science. 24 upper division units in at least 4 social science fields.
2. Area of concentration
 - a. Social Science 250A and B..... 6 units
 - b. Approved graduate "200" courses chosen from two of the following fields: economics, or geography, or government, or history, or sociology, or social psychology. Approved graduate project, not to exceed 3 units of credit, may be included..... 6 units
 - c. Other approved courses in the social sciences; may be upper division 3 units
 - d. Comprehensive examinations in the composite field of social science and in designated social science areas.
3. Approved courses outside the area of the social sciences..... 6 units
4. Other courses approved in advance by the adviser..... 9 units

COURSES OF INSTRUCTION

Prerequisites: Completion of two introductory courses in the social sciences. Exception: No prerequisite for Social Science 100.

100 The United States (2) Fall, Spring

An orientation course designed for, and open only to, students from foreign countries. American historical, political, economic, and social backgrounds; American educational and vocational principles and practices; American values. Recommended for international students.

150 Scientific Method and Applied Logic (3) Fall, Spring

Nature and application of logic, in its relations to the social sciences. Special attention to the foundation in logic of the methods of scientific inquiry.

169 Contemporary Latin America (3)

Prerequisite: Knowledge of the Spanish language. Introduction to the contemporary Hispanic world by means of identification of analysis of significant trends and problems. Particular emphasis upon recent economic and social developments in the Southwest. Lectures and discussions in Spanish and English.

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in the social sciences.

250A-B Seminar in Social Science (3-3) Fall, Spring

An interdisciplinary approach to selected problems, regions, or trends; directed by the staff of the division. 250A is prerequisite to 250B.

SOCIOLOGY

(In the Division of Social Sciences)

RAMONA-VERMONT CAMPUSES: Wallace (Department Head), Diehl, Nahrendorf, Penchef, Rowan.

SAN FERNANDO VALLEY CAMPUS: Ford.

BACHELOR'S DEGREE CURRICULUM

Major in Sociology

The sociology major leads to a bachelor's degree in sociology with a concentration in either sociology or social welfare, and also prepares the student for graduate study toward an advanced degree in one of the major areas of sociology or social work.

Lower Division

Introduction to Sociology.....	3 units
Recommended: One course in Introductory Logic and one course in Introductory Psychology. Social Science 150 will substitute for Introductory Logic.	

Upper Division

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

Sociology 163—Elementary Social Statistics.....	3 units
Sociology 167—Development of Sociology <i>or</i>	
Sociology 168—Contemporary Sociology.....	3 units
Sociology 197—Methods of Social Research.....	3 units

B. Option Requirements (Select option 1 or 2)

Option 1—General Sociology

Select <i>one</i> course from each of the following groups.....	12 units
1. Sociology 110—The City (3)	
Sociology 112—Regional Sociology (3)	
Sociology 150—Population (3)	
2. Sociology 145—Social Psychology (3)	
Sociology 147—Mass Communication and Propaganda (3)	
Sociology 194—Social Dynamics of Abnormal Behavior (3)	
3. Sociology 103—Marriage and the Family (3)	
Sociology 122—Social Change (3)	
Sociology 146—Social Control (3)	
Sociology 160—The Sociology of Industrial Relations (3)	
4. Anthropology 104—Cultural Anthropology (3)	
Anthropology 105—Culture and Personality (3)	
Sociology 190—Race Relations (3)	

Courses in allied fields, or in sociology, chosen with the approval of an adviser..... 9 units

Option 2—Social Welfare

Sociology 103—Marriage and the Family.....	3 units
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.....	3 units

Sociology 158—Community Welfare Organization <i>or</i>	
Sociology 110—The City	3 units
Sociology 159—Child Welfare	3 units
Sociology 170—Methods of Social Work	3 units
Courses in allied fields, or in sociology, chosen with the approval of an adviser	6 units

MASTER OF ARTS DEGREE

The graduate program is built on the foundation of undergraduate preparation. The master's degree requires intensive directed study in sociology aimed at increased competency and depth of understanding.

1. Prerequisite: Acceptable undergraduate preparation in sociology, including Sociology 163, Sociology 167 or 168, Sociology 197, and Social Science 150.
2. Area of concentration
 - a. Social Science 250A
 - b. Approved graduate "200" courses in the field of sociology. Sociology 290 must be included
 - c. Other approved courses in the field of sociology; may be upper division "100" courses
 - d. Comprehensive written examinations in selected fields of sociology.
3. Approved courses outside the area of sociology
4. Other courses approved in advance by the adviser

COURSES OF INSTRUCTION

Prerequisite for upper division courses: Introduction to Sociology, or consent of instructor.

102 Social Processes and Institutions (3) Fall, Spring

Introductory analysis of social processes and institutions, and clarification of basic sociological concepts. Study of the various aspects of sociology from the standpoint of their contributions to present-day American life.

103 Marriage and the Family (3) Fall, Spring

Recent social changes affecting marriage and family behavior. Love, courtship, engagement, mate selection, and marital success. The family as a unity of interacting personalities.

110 The City (3) Fall

A study of the city with special attention to the psycho-social features of urban phenomena.

112 Regional Sociology (3) Spring

Ecological factors in society. Attention is given to social and cultural regionalism, and to the development, form, spatial distribution, and organization of communities and institutions in relation to their habitats. (Formerly Regions of the United States.)

122 Social Change (3) Spring

Changes in technology, ideology, and social organization. Theories of social change and progress. Adjustments within society to social change.

126 Social Legislation (3) Fall

A study of the socio-philosophical movements and democratic processes directed toward bringing about and maintaining laws relating to social security. Health insurance, workmen's compensation, employment, and other measures and proposals examined with reference to the larger cultural body of which they are a part.

145 Social Psychology (3) Fall, Spring

Inquiry into group dynamics. Study of social interaction and its effects upon the individual and the group. (Credit not given for both Sociology 145 and Psychology 145.)

146 Social Control (3) Fall

Nature of social controls, and their classification. Means and agencies, with particular attention to controls in law, religion, education, the family, and the economy.

147 Mass Communication and Propaganda (3) Fall

Communication in its sociological aspects, especially in mass and crowd behavior. Propaganda in its relationship to social actions and social systems.

148 Juvenile Delinquency (3) Fall, Spring

Extent and distribution of delinquency with emphasis on the local area. Meaning, implications, and treatment of delinquency. Personal and environmental conditioning factors.

150 Population (3) Fall

An analysis of the causes and consequences of major population trends throughout the world; changes in birth and death rates, sex ratio, age distribution, race and nationality composition; marital, educational, and occupational status; religious composition; population density; migration.

155 Criminology (3) Fall, Spring

The nature of crime; the conditioning factors in criminal behavior of the individual and group.

156 The Field of Social Work (3) Fall, Spring

The development of American social work; the scope and diversity of specific programs used in meeting welfare problems in contemporary society.

158 Community Welfare Organization (3) Fall, Spring

Evaluation of the interdependency of individual and group and their common human needs in regard to resources such as family service agencies, clinics and hospitals, schools, youth and adult organizations. The coordination of social agencies and welfare services, with emphasis on local community resources. (Formerly Community Organization.)

159 Child Welfare (3) Spring

Trends affecting the growth and change of the movement toward establishing the rights of the child to care and protection. Emphasis on the child and the law, compulsory education, school social work, child labor legislation, institutional and foster care for the healthy and sick child, and adoption legislation.

160 Industry in Modern Community (3) Fall

The sociological analysis of employee, employer, and consumer relationships. Typical problems in personnel administration, vocational guidance, job training, industrial health, employee morale, and collective bargaining.

163 Elementary Social Statistics (3) Fall, Spring

Inquiry into statistical methods: ways in which social data are presented and treated in sociological literature. The use of descriptive statistical techniques.

164 Social Statistics (3) Spring

Prerequisite: Sociology 163 or equivalent. (Recommended for all sociology majors, especially those planning graduate work.) The use of formulae applicable to the matters of central tendency, variability, reliability, comparison, and correlation. Problems illustrating the social scientific methods of collecting data.

167 Development of Sociology (3) Fall, Spring

Contributions of social philosophy and the social and natural sciences to the growth of sociology, considered historically and analytically.

168 Contemporary Sociology (3) Spring

Growth of sociology in the United States. Contribution of present day sociologists. Relation of sociology to other fields, such as psychology, education, and anthropology. Occupational opportunities in sociology.

170 Methods of Social Work (3) Fall, Spring

Theories, principles, and practices of social case work in group, medical, and psychiatric settings. Discussion of case material and literature for the appreciation and development of skills in social welfare work.

172 Contemporary Treatment of Law Violators (3) Spring

A survey of general and specific treatment programs used in the rehabilitation of the offender in correctional institutions, probation and parole. Field trips.

175 In-service Training (Variable credit) Fall, Spring

In-service training for social service personnel in local, state, and federal agencies. Conferences and field supervision.

190 Race Relations (3) Fall

An analysis of the processes leading to the organization and disorganization of majority and minority group relations. Attention to the most successful experiments in the field of ethnic group interaction.

194 Social Dynamics of Abnormal Behavior (3) Spring

The sociological aspects of deviant behavior and personality disorganization. Social research methods applied to the problem of individual and group tension.

197 Methods of Social Research (3) Fall, Spring

Prerequisites: Inductive Logic and Scientific Method, or Social Science 150, or equivalent. Application of the scientific method to social phenomena. An analysis of the more important techniques used in sociological research. Preparation of research papers and reports. Methods of collecting, classifying, interpreting, and presenting social data. Case studies of typical research monographs. (Formerly Introduction to Social Research.)

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

Minimum prerequisites: A bachelor's degree and superior academic performance in sociology.

245 Seminar in Social Psychology (3)

Advanced investigation of the dynamics of social interaction. Interdisciplinary research.

270 Studies in Contemporary Sociology (3)

A survey of the methods and research of contemporary sociologists, with particular attention to the convergence of apparently divergent methodologies in this swiftly maturing science.

271 Studies in Social Welfare (3)

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 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)

Advanced interpretation of empirical findings in terms of mathematical proof. 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)

Advanced study of social research techniques, with supervised application of research methods in a laboratory or field study situation. *Required* for the master's degree in sociology.

299 Graduate Project (3)

SPANISH

(In the Division of Language Arts)

RAMONA-VERMONT CAMPUSES: Bonhard, Lionetti.

BACHELOR'S DEGREE CURRICULA

Major in Spanish

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

Lower Division

Elementary Spanish (one year)	6-8 units
Intermediate Spanish (one year)	6-8 units

Upper Division

Spanish 102A-B—Spanish Literature to 1800 (3-3)	6 units
Spanish 103A-B—Spanish Literature Since 1800 (3-3)	6 units
Spanish 116A-B—Advanced Composition and Syntax (3-3)	6 units
Upper division electives in Spanish (3-3)	6 units

36-40 units

General Secondary Teaching Major

See also pages 122-123 for professional education requirements. A teaching minor in a different teaching field is also required for the general secondary credential.

Lower Division

Elementary Spanish	6-8 units
Intermediate Spanish	6-8 units

Upper Division

Spanish 101A-B—Oral and Written Composition (3-3)	6 units
Spanish 116A-B—Advanced Composition and Syntax (3-3)	6 units
Spanish 102A-B—Spanish Literature to 1800 (3-3)	6 units
Spanish 103A-B—Spanish Literature Since 1800 (3-3)	6 units

Graduate (Fifth Year)

Spanish 104A-B—Survey of Spanish-American Literature (3-3)	6 units
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42-46 units

General Secondary Teaching Minor

See also pages 122-123 for professional education requirements.

Lower Division

Intermediate Spanish	8 units
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Upper Division

Spanish 101A-B—Oral and Written Composition (3-3)	6 units
Six units to be chosen from:	
Spanish 102A } Spanish Literature to 1800	{ 3 units
Spanish 102B }	{ 3 units
Spanish 103A } Spanish Literature from 1800	{ 3 units
Spanish 103B }	{ 3 units

20 units

COURSES OF INSTRUCTION

3 Intermediate Spanish (4) Fall

Prerequisite: Spanish 2 or its equivalent. Emphasis on understanding and speaking Spanish. Reading and writing of simple Spanish.

4 Intermediate Spanish (4) Spring

Prerequisite: Spanish 3 or its equivalent. Rapid reading of Spanish for comprehension; writing; continued emphasis on understanding and speaking. Grammar review.

101A-B Oral and Written Composition (3-3) Offered alternate years

Prerequisite: Intermediate Spanish.

102A-B Spanish Literature to 1800 (3-3) Offered alternate years

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

103A-B Spanish Literature Since 1800 (3-3) Offered alternate years

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

104A-B Survey of Spanish American Literature (3-3)

Prerequisite: Intermediate Spanish, or Spanish 101A or 101B. First semester literature to 1888.

116A-B Advanced Composition and Syntax (3-3)

Offered alternate years

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

199 Independent Study (1-3) Fall, Spring

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

SPEECH AND DRAMA

(In the Division of Language Arts)

RAMONA-VERMONT CAMPUSES: Stansell (Department Head), Altenberg, Beaver, Cathcart, Chase, Cullen, Daniel, DeLay, Douglass, Fitzpatrick, Gardemal, Gillen, Hillbruner, Huber, Kully, Mudd, L. Scott.

SAN FERNANDO VALLEY CAMPUS: Schlosser, Sillars.

BACHELOR'S DEGREE CURRICULA

Major in Speech and Drama

Designed for students who (1) elect to study the liberal arts with an emphasis in speech and drama, or (2) plan to engage in professional work on the stage, screen, or television, or in careers where skill in public speaking or dramatic art is essential.

Lower Division

From the following areas 3 units
 Public speaking, acting fundamentals, oral interpretation, voice training, stagecraft

Upper Division

Language Arts 197—Ideas in America 3 units
 Speech 110—Public Speaking 3 units
 Speech 112A—Advanced Acting 3 units
 Speech 120—Oral Interpretation 3 units
 Speech 130—Voice and Diction 2 units
 Speech 153—History of the Theater 3 units
 Speech 196A or E—Special Projects in Speech and Drama 3 units
 At least *one* course from the following 3 units
 Speech 100—Group Discussion (3)
 Speech 131—American Phonetics (3)
 Speech 150AB—Principles of Directing (3-3)
 Speech 196BCDF—Special Projects in Speech and Drama (3-3-3-3)
 Select from the following 5 units
 English 117J—Interpreting Shakespeare (3)
 English 124—Interpreting Drama (3)
 Journalism 192—Radio and Television Continuity Writing (3)
 Language Arts 164M—Mass Communication Arts (2)
 Speech 111—Persuasive Speaking (2)
 Speech 112B—Advanced Acting (3)
 Speech 134—Introduction to Speech Therapy (3)
 Speech 155—Television Techniques (3)
 Speech 156ABCD—Information Programs in Television (2-2-2-2)
 Speech 170—Set Construction, Design, and Lighting (3)
 Speech 173—Advanced Technical Production (3)

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31 units

Major in Speech Therapy

Designed for students who plan to engage in clinical speech and hearing therapy in nonacademic programs.

Lower Division

Public Speaking 3 units
 Voice Training or Interpretation 3 units

Upper Division

Speech 131—American Phonetics	3 units
Speech 134—Introduction to Speech Therapy	3 units
Speech 135—Advanced Speech Therapy	3 units
Speech 136—Clinical Practice in Speech and Hearing	2 units
Speech 137—Speech Problems in Cerebral Palsy	3 units
Speech 198—Field Assignment and Reports	1 unit
Educ. 120—Speech Reading	2 units
Educ. 196A—Hearing and Its Measurement	3 units
Educ. 196B—Aural Rehabilitation	3 units
Psych. 108—Mental Hygiene	2 units
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	31 units

General Secondary Teaching Major

See also pages 122-123 for professional education requirements. A teaching minor in a different teaching field is also required for the General Secondary Credential. Candidates for the General Secondary Credential in Speech are required to have a collegiate course in each of the following areas: composition, literature, speech, and drama or journalism.

Lower Division

From the following areas	3 units
Public speaking, acting fundamentals, stagecraft, oral interpretation, voice training	

Upper Division

Language Arts 197—Ideas in America	3 units
Speech 100—Group Discussion	3 units
Speech 112A—Advanced Acting	3 units
Speech 131—American Phonetics	3 units
Speech 164D—High School Dramatics	2 units
Speech 164S—High School Speech Arts	2 units
Speech 196A or E—Special Projects in Speech and Drama	3 units
At least <i>one</i> course from the following	3 units
Speech 120—Oral Interpretation (3)	
Speech 173—Advanced Technical Production (3)	
Speech 196BCDF—Special Projects in Speech and Drama (3-3-3-3)	
Select from the following	6 units
Speech 110—Public Speaking (3)	
Speech 111—Persuasive Speaking (2)	
Speech 130—Voice and Diction (2)	
Speech 134—Introduction to Speech Therapy (3)	
Speech 150A or B—Principles of Directing (3)	
Speech 153—History of the Theater (3)	
Speech 155—Television Techniques (3)	
Speech 156ABC or D—Information Programs in Television (2)	
Speech 170—Set Construction, Design and Lighting (3)	

Graduate Year

With approval of adviser	6 units
	<hr/>
	37 units

General Secondary Teaching Minor

See also pages 122-123 for professional education requirements.

Lower Division

From the following areas _____ 3 units
 Public speaking, acting fundamentals, stagecraft, oral interpretation, voice training

Upper Division

Speech 100—Group Discussion _____ 3 units

Speech 164D—High School Dramatics _____ 2 units

Speech 164S—High School Speech Arts _____ 2 units

Speech 196A (BCDEF)—Special Projects in Speech and Drama _____ 3 units

At least *one* course from the following _____ 3 units

Speech 112A—Advanced Acting (3)

Speech 120—Oral Interpretation (3)

At least *two* courses from the following _____ 4 units

Speech 110—Public Speaking (3)

Speech 111—Persuasive Speaking (2)

Speech 130—Voice and Diction (2)

Speech 150AB—Principles of Directing (3)

Speech 155—Television Techniques (3)

 20 units
MASTER OF ARTS DEGREE

See Head, Speech Department, for M.A. program.

COURSES OF INSTRUCTION**REMEDIAL SPEECH****99A Individual Speech Therapy (1) Fall, Spring**

Prerequisite: Consent of instructor. Individual assistance for students who have defective speech. Students with articulatory defects, organic defects, stuttering, etc., are eligible to enroll.

99B Individual Speech Therapy (Foreign Students) (1) Fall, Spring

Prerequisite: Consent of instructor. Individual and small group assistance for students with foreign language backgrounds. Correct articulation, pronunciation, and the use of the American idiom.

ORAL SKILLS**100 Group Discussion (3) Fall, Spring**

The role of group discussion in a democratic society. Principles and methods of group discussion in problem solving and learning situations. Development of individual skills in discussion preparation, participation, and leadership through practical application.

100B Oral Expression (3)

Register for Language Arts 100B.

110 Public Speaking (3) Fall, Spring

Prerequisite: Three units of public speaking or consent of instructor. Preparation, organization, and delivery of practical speeches. Emphasis upon audience analysis and speeches for special occasions.

111 Persuasive Speaking (2) Fall, Spring

Prerequisite: Consent of instructor. Methods of persuasion with emphasis upon ethical, logical, and pathetic proofs.

112A-B Advanced Acting (3-3) A—Fall, B—Spring

Gesture, movement, timing, and pointing; problems of characterization; styles of acting and characteristics of acting in various dramatic media. Presentation of scenes from plays of various types. May be taken in any sequence.

120 Oral Interpretation (3) Fall, Spring

Theory of oral interpretation; readings of poetry and prose.

130 Voice and Diction (2) Fall, Spring

Studies in phonation, articulation, and pronunciation. Special attention to diction for classroom teachers, public speakers, and actors.

131 American Phonetics (3) Fall, Spring

Systematic analysis of the sounds of speech, structure and function of the speech mechanism, and the use of the International Phonetic Alphabet. Application of phonetic principles to articulation, to the teaching of speech, and to speech therapy.

SPEECH THERAPY**134 Introduction to Speech Therapy (3) Fall, Spring**

Characteristics, causes, and treatment of speech defects. Designed to acquaint the special education teacher with common speech problems of children and to serve as an introductory course for speech therapists.

135 Advanced Speech Therapy (3) Spring

Prerequisite: Speech 134 or equivalent. Intensive study of the speech handicapped individual. Consideration of various causal factors, including cleft palate and cerebral palsy. Theories and techniques of diagnosis and therapy.

136A-B Clinical Practice in Speech and Hearing (2-2) Fall, Spring

Prerequisite: Consent of instructor. Supervised clinic experience with speech and hearing handicapped children.

137 Speech Problems in Cerebral Palsy (3) Spring

Prerequisite: Speech 134 or equivalent. The speech problems associated with cerebral palsy. Normal function of the speech mechanism is contrasted with that of the orthopedically handicapped in consideration of disturbances of respiration, hearing, articulation, language

development, and cerebation. Diagnostic and therapeutic techniques presented.

DRAMA

150A-B Principles of Directing (3-3) A—Fall, B—Spring

Lectures and practice in problems of stage and television direction. Opportunity to direct college-sponsored productions. May be taken in any sequence.

153 History of the Theater (3) Spring

Dramatic literature from the Greek period to the present. Selected critical readings about the theater and drama.

155 Television Techniques (3) Fall, Spring

Survey of current trends in television programming and production. Occupational opportunities in commercial and educational television. Lectures and demonstrations with class participation.

156A-B-C-D Information Programs in Television (2-2-2-2)

Fall, Spring

Prerequisite: Speech 155 (may be taken concurrently). A survey of the techniques which may be employed in presenting educational opportunities to the public through the medium of television. Planning and preparation of educational, information, and public service television programs. May be taken in any sequence.

SPEECH EDUCATION

163A Speech and Dramatic Activities in Elementary Schools (3)

Fall, Spring

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

163B Speech Problems in the Classroom (3) Fall, Spring

Identification of common deviations from the normal pattern of development and function of oral language in elementary school children. Techniques appropriate for speech improvement and for entrenchment of proper speech habits. Designed for kindergarten, primary, and elementary teachers; not for special education or preprofessional therapy majors. (Replaces Speech 134 in composite minor program.)

164D High School Dramatics (2) Spring

Theory and techniques of dramatic production in secondary schools. Requires attendance at typical high school dramatic activities. Not a methods course; emphasis on subject field skills.

164S High School Speech Arts (2) Fall

Techniques of speech in the secondary school. Survey of textbooks suitable for secondary schools. Includes public speaking, oral interpretation, discussion, debate, and other speech activities. Requires attendance at high school speech arts activities. Not a methods course; emphasis on subject field skills.

TECHNICAL THEATER**170 Set Construction, Design, and Lighting (3) Spring**

Prerequisite: Lower division course in stagecraft or consent of instructor. Theory and practice of set design, construction, and lighting for plays, pageants, dance, television, and other dramatic productions for professional, educational, and community presentations. Course designed to serve speech, drama, television, industrial arts, and recreation majors. Practical experience through participation in college sponsored productions.

173 Technical Production (3) Fall, Spring

Prerequisite: Lower division course in stagecraft or consent of instructor. Study of advanced techniques in scenery and costume construction, production organization, and house management. Course designed to serve speech, drama, television, industrial art, art, and recreation majors. Practical experience through participation in college sponsored productions.

SPECIAL STUDIES**196A-B-C-D-E-F Special Projects in Speech and Drama (3-3-3-3-3-3)
Fall, Spring**

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

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

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

199 Independent Study (1-3) Fall, Spring

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

GRADUATE COURSES

Graduate standing is prerequisite to registration in the following courses.

215 Performance (3) Fall

Prerequisites: An undergraduate course in speech or drama, or consent of instructor. Intensive study of the organization, presentation, and theory of the use of significant themes and ideas in the professional lecture and lecture recital. Planning, practice, and presentation of monodramas, oral readings, book reviews, and speeches for use in classroom and community.

220D Seminar in Dramatic Arts (3) Fall

Backgrounds in theatrical art; an analysis of the aesthetic principles and content of the theater; selected problems in the philosophy of dramatic art.

220S Seminar in Speech Arts (3) Spring

Selected problems in the philosophy of the speech arts and their influence upon contemporary movements and affairs in the American democratic society.

235 Seminar in Speech Disorders (3) Fall

Prerequisite: Speech 135 or equivalent. Analysis and evaluation of the basic concepts in the field of speech pathology and their applications to the development of modern techniques of diagnosis and therapy.

**236AB Advanced Clinical Practice in Speech and Hearing (2-2)
Fall, Spring**

Prerequisite: Speech 136. Supervised experience in diagnosis and therapy with speech and hearing handicapped children and adults.

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