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LONG BEACH
STATE COLLEGE

BULLETIN

General Catalogue
1951-52

LONG BEACH, CALIFORNIA

LONG BEACH STATE COLLEGE
BULLETIN

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GENERAL CATALOGUE

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Fall and Spring Semesters 1951-52

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DEPARTMENT OF EDUCATION
OF THE
STATE OF CALIFORNIA

HONORABLE ROY E. SIMPSON
*State Superintendent of Public Instruction and
State Director of Education*

AUBREY A. DOUGLASS, *Associate Superintendent
Chief, Division of State Colleges and Teacher Education*

JOEL A. BURKMAN, *Assistant Chief
Division of State Colleges and Teacher Education*

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1951-52 CALENDAR

FALL SEMESTER

September 17-18	Registration
September 19	Instruction begins
October 8	Last day to add classes to program
November 12	Last day to drop classes without "F" grade
November 22-23	Thanksgiving Day recess
December 19-January 1 (inclusive)	Christmas vacation
February 1	End of fall semester

SPRING SEMESTER

February 4-5	Registration
February 6	Instruction begins
February 22	Washington's birthday
February 25	Last day to add classes to program
April 7-11 (inclusive)	Spring vacation
April 14	Last day to drop classes without "F" grade
May 30	Memorial Day
June 13	End of spring semester

SUMMER SESSION

June 16-July 25

ADMINISTRATION

P. Victor Peterson	President
Hugh S. Brown	Dean of Administration
David L. Bryant	Dean of Student Personnel
J. Wesley Bratton	Summer Session Coordinator
Karl A. Russell, Jr.	Registrar
Elizabeth Nielsen	Acting Dean of Women
George H. Hackney	Accounting Officer

DIVISION CHAIRMEN

Wallace Moore	Education and Psychology
David L. Bryant (Acting)	Social Sciences
Robert D. Rhodes (Acting)	Arts, Language and Science

FACULTY

P. Victor Peterson	President
A.B. Iowa State Teachers College, A.M. Stanford University, Ph.D. Stanford University.	
Ahlquist, Irving F.	Assistant Professor, Social Science
B.S. Wheaton College, M.A. University of Illinois, Ph.D. University of Illinois.	
Anderson, Roy Clarence	Associate Professor, Education
A.B. Augustana College, M.A. University of Michigan, Ed.D. Stanford University.	
Archer, Blair	Assistant Professor, Art
B.S. Moorhead Teachers College, M.Ed. University of Minnesota, Ed.D. in progress, University of Minnesota.	
Bratton, J. Wesley	Associate Professor, Education
A.B. Seattle Pacific College, M.S. University of Southern California, Ed.D. in progress, University of Southern California.	
Brown, Hugh S.	Professor, Education and Psychology
B.A. University of Manitoba, Ph.D. University of Minnesota.	
Bryant, David L.	Associate Professor, Commerce
B.S. University of Southern California, M.A. Stanford University, Ed.D. in progress, University of Southern California.	
Christensen, Arnold M.	Professor, Education
B.A. Carleton College, M.A. University of Minnesota, Ph.D. State University of Iowa.	
Doss, J. Paul	Assistant Professor, Education
A.B. Fresno State College, M.S. University of Southern California, Ed.D. in progress, University of Southern California.	

- Durbin, Robert P. Assistant Professor, Natural Science
A.B. San Diego State College, M.S. University of Southern California, Ed.D. University of Southern California.
- Flynn, Francis J. Associate Professor, Education
A.B. University of Southern California, M.S. University of Southern California, Ed.D. in progress, University of Southern California.
- Garver, Myron J. Assistant Professor, Commerce and Education
B.A. Arizona State College, M.S. University of Southern California, Ed.D. University of Southern California.
- Hardy, Ross Professor, Natural Science
B.S. University of Utah, M.S. University of Utah, Ph.D. University of Michigan.
- Jacobs, Elizabeth R. Assistant Professor, English
B.A. University of Texas, M.A. University of Arizona, Ph.D. University of Wisconsin.
- Kinsman, Kephias A. Professor, Education
A.B. University of California at Los Angeles, A.M. University of Southern California, Ed.D. University of Southern California.
- Lorden, Yale E. Associate Professor, Education
A.B. Santa Barbara College, A.M. Stanford University, Ph.D. University of Chicago.
- MacQuarrie, William D. Associate Professor, Industrial Arts
B.A. San Jose State College, M.A. Stanford University, Ph.D. University of Southern California.
- Melom, Halvor G. Associate Professor, History
B.A. Fresno State College, M.A. University of California, Ph.D. University of Missouri.
- Metzger, Vernon A. Assistant Professor, Commerce
B.S. University of California at Berkeley, M.B.A. University of California at Berkeley, D.P.A. in progress, University of Southern California.
- Moore, Wallace Professor, Education
A.B. Davidson College, M.A. Harvard University, Ed.M. Stanford University, Ph.D. Stanford University.
- Nelson, Frank G. Professor, English
A.B. Park College, M.A. Haverford College, Ph.D. University of California at Berkeley.
- Nielsen, Elizabeth Associate Professor, English
B.A. Cornell College, Iowa; M.A. Boston University, Ph.D. Northwestern University.
- Olsen, John W. Associate Professor, Art
B.Ed. University of California at Los Angeles, M.A. Columbia University, Ed.D. Columbia University.
- Peterson, Lawrence Assistant Professor, Music
B.A. State Teachers College, Minnesota; M.S. University of Southern California, Ed.D. University of Southern California.
- Phearman, Leo Associate Professor, Education
B.A. Cornell College, Iowa; M.A. State University of Iowa, Ph.D. State University of Iowa.

- Reynolds, Maynard C. _____ Assistant Professor, Education and Psychology
 B.S. Minnesota State Teachers College, M.A. University of Minnesota, Ph.D.
 University of Minnesota.
- Rhodes, Robert D. _____ Professor, Natural Science
 B.A. San Jose State College, M.A. Stanford University, Ph.D. Stanford University.
- Ross, Robert T. _____ Associate Professor, Psychology
 B.S. California Institute of Technology, M.A. University of Southern California,
 Ph.D. Yale University.
- Russell, Karl A., Jr. _____ Registrar
 B.S. Indiana State University, Ph.D. Indiana University.
- Schwartzkopf, Herman _____ Assistant Professor, Physical Education
 B.S. Fort Hays Kansas State College, M.S. University of Oregon, Ed.D. in progress,
 University of Southern California.
- Strauss, William L. _____ Assistant Professor, Political Science
 B.A. Baylor University, M.A. University of Texas, Ph.D. Harvard University.
- Thomas, Franklin _____ Professor, Education
 A.B. Indiana University, M.A. Indiana University, Ph.D. Ohio State University.
- Tidyman, Clayton _____ Assistant Professor, Commerce
 B.S. University of Southern California, M.B.A. University of Southern California,
 C.P.A. Certificate, Ph.D. in progress, University of Southern California.
- Wadleigh, Lloyd _____ Assistant Professor, Commerce
 B.A. University of California at Los Angeles, Ph.D. in progress, Claremont.
- Walker, Edward _____ Professor, Sociology
 B.S. Southwest Missouri State College, M.A. University of Missouri, Ph.D. Stanford
 University.
- Ward, Ernest H. _____ Associate Professor, Commerce and Education
 A.B. Marietta College, Ohio; M.A. Ohio State University, Ed.D. University of
 Cincinnati.
- Wiley, Samuel E. _____ Assistant Professor, English
 A.B. The Athenaeum, Cincinnati; Ph.D. University of Rome.
- Wilson, James N. _____ Assistant Professor, Geography
 B.S. Edinboro State Teachers College, M.A. Teachers College, Columbia; Ed.D.
 Teachers College, Columbia.
- Ziegfeld, Ernest H. _____ Associate Professor, Art
 B.S. Ohio State University, M.A. University of Minnesota, Ed.D. Teachers College,
 Columbia.

Additional appointments will be made for the opening of the Fall Semester, 1951.

PART TIME FACULTY

(As of May, 1951)

- Adams, A. Elwood _____ Education
 A.B. Indiana State Teachers College, M.A. T.C. Columbia University, Ed.D. Uni-
 versity of Southern California.
- Bennett, Esther Wollam _____ English
 A.B. University of California at Los Angeles, M.A. University of Southern Cali-
 fornia, Ph.D. in progress University of Southern California.

- Bragg, Mary Elizabeth Education
 B.S. University of Southern California, M.S. University of Southern California.
- Daniels, Edgar Eugene Psychology
 A.B. University of Southern California, M.A. University of California at Berkeley,
 Ph.D. University of Vienna.
- Dills, Ralph Clinton History
 B.A. University of California at Los Angeles, M.A. University of Southern Cali-
 fornia, LL.B. Loyola University, LL.D. McGeorge College of Law.
- Fear, Arthur J. Speech
 A.B. DePauw University, M.A. State University of Iowa, Ph.D. in progress, Uni-
 versity of Southern California.
- Fortmann, James A. Art
 B.A.E., Art Institute, University of Chicago; M.A. in progress, University of South-
 ern California.
- Jenks, Wilford Everett English
 A.B. University of California at Los Angeles, Ph.D. in progress, University of
 Southern California.
- Kastrup, Mary Alice Physical Education
 B.S. University of Minnesota, M.S. University of Wisconsin.
- Knight, Reginald Raymond Education
 B.A. San Jose State College, M.Ed. University of Southern California.
- Mangold, John F. Education
 A.B., M.A. Pomona College.
- Paine, Olive Education
 Ph.B. University of Chicago, M.A. Columbia University Teachers College, Ph.D.
 Yale University.
- Phelan, Amalie Muriel Psychology
 A.B. N. J. College for Women, A.M. Cornell University, Ph.D. Syracuse Univer-
 sity.
- Shehorn, Clayton E. Education
 B.A., LaVerne College, M.A., Wayne University.
- Shouse, Mary F. Music
 A.B. Kirksville State Teachers College, M.A. New York University.
- Sidlow, Ethelmae Education
 B.S., Missouri State Teachers College, M.Ed., University of Southern California,
 Ed.D., University of Southern California.
- Skaggs, Darcy Adrian Education
 A.B. Arizona State Teachers College, M.A. Arizona State Teachers College, Ed.D.
 University of Southern California.
- Sprague, Harold Milton Education
 B.S. Nebraska State Teachers College, M.A. Colorado State Teachers College.
- Todd, Vivian Edmiston Education
 B.S. University of Idaho, M.S. University of Idaho, Ph.D. University of Chicago.
- Tyhurst, Richard William History
 B.A. University of California at Los Angeles.
- Vazzana, Anthony E. Music
 B.S. Potsdam State Teachers College, M.M. University of Southern California.

Additional appointments will be made for the opening of the Fall Semester, 1951.

LIBRARY

Boorkman, Charles	Librarian
A.B. University of Illinois, B.S. (Library Science) University of Illinois.	
Gordon, Lenore	Senior Librarian
B.A. Coe College, Iowa; B.L.S. University of Wisconsin, M.S.L.S. Columbia University.	
Blake, Roberta	Junior Librarian
B.A. San Jose State College.	

HEALTH OFFICE

Bramlett, E. Burgess	Physician
M.D. University of Arkansas.	
Jorgensen, Judith	Nurse
R.N.	

CLERICAL STAFF

Casey, Betty, A.B.	Assistant Evaluation Secretary
Chankin, Shirley	Secretary—Education and Psychology
Cherry, Nathan A., B.S.	Laboratory Assistant
Dulaney, Barbara	Intermediate Account Clerk
Fourcade, Beatrice	Stenographer—Library
Harsch, Luella, A.A.	Secretary—Extended Day
Jimenez, Arleigh	Senior Account Clerk
Morris, Betty	Evaluation Secretary
Ochs, Pat	Secretary to Dean of Administration
Scott, Adelaide	Receptionist
Sincock, Carroll L., A.A.	Secretary to Dean of Students
Smith, Patsy J., B.S.	Secretary to Registrar's Office
Williams, Alice, A.B.	Secretary to President
Woods, Fred T.	Manager Canteen and Bookstore

THE COLLEGE

ORGANIZATION AND HISTORY

The survey of higher education made by the State Department of Education and the Regents of the University of California in 1947-48 recommended that a state college be established to serve the needs of Orange County and the southeast portion of Los Angeles County.

Assembly Bill No. 8, Chapter 4 (Statutes of 1949) "An act to provide for the establishment of a state college in the area of Orange County and the southeastern part of Los Angeles County declaring the urgency thereof, to take effect immediately" was approved by the Governor on January 27, 1949.

"The provisions of Chapter 2 of Division 10 of the Education Code and all other laws relating to state colleges are applicable to the state college established by this act." (Section 2, A. B. 8, Chapter 4.)

Pending the decision of the Public Works Board on the selection and acquisition of a site, temporary quarters were secured at 5401 East Anaheim Street, Long Beach 4, and plans were made to open the college for the 1949-50 session. Registration was held on September 26th and 27th and instruction began on September 28, 1949. Until a permanent site had been secured, the college operated under a temporary name, Los Angeles-Orange County State College.

A group of local citizens proposed that the City of Long Beach purchase and donate to the State a permanent site for the college. On April 5, 1950, the Property Acquisition Board agreed to locate the state college in Long Beach if the proposed site was annexed to the city and donated to the State. On June 6, 1950, the citizens authorized the city council to acquire the property known as the Bixby site and donate it to the State for the building of the state college. On June 7th the State Director of Education officially named the new institution the Long Beach State College. The site is located near the Naval Hospital and comprises 316 acres fronting on Seventh Street. Master plans are being developed for the construction of buildings which it is anticipated will eventually house 5,000 full time students.

AIMS OF THE COLLEGE

Legislation passed in 1947, defined the functions of the state colleges as follows:

"The primary function of the state colleges is the training of teachers. State colleges also may offer courses appropriate for a general or liberal education and for responsible citizenship; offer vocational training in such fields as business, industry, public services, homemaking, and social service; and offer the pre-professional courses needed by students who plan to transfer to universities for advanced professional study. Courses in military science and tactics may be given in conformance with the laws of the United States made and provided with reference to R.O.T.C. units in educational institutions."¹

The state colleges are authorized by the State Board of Education to grant the bachelor's degree. The variety of offerings in the state colleges enables a student to secure the degree with a major in such fields as art, business, drama, economics, education, engineering, English, home economics, industrial arts, mathematics, modern languages, music, natural science, social science, physical education, and psychology.

¹ Laws of 1946 and 1947 relating to the California Public School System, Bulletin of the California State Department of Education, Volume XVI, November 1947, Section 20301, page 125.

In 1949 the state colleges were authorized to grant the master's degree when it is accompanied by a teaching credential.

To meet these responsibilities, Long Beach State College is developing curricula in the following areas:

1. Education curricula for students who plan to teach or do special work in the elementary and secondary schools.
2. A program for students who wish to acquire a liberal arts or general education.
3. Courses for students who plan to do advanced graduate or professional work in this college or at the university.
4. Education for occupational competence on the degree level. The needs of the community guide the offerings. These include business and industry, city, county and state public services, home-making, social services, small farm agriculture, and horticulture.
5. Extended-day and extension classes for students unable to take advantage of the regular offerings.

The college seeks to maintain a flexible organization which is sensitive to the needs of the community and able to adapt its curricula to meet these needs.

The college endeavors to maintain and develop a friendly personal relationship between students and faculty, believing that in this atmosphere lie many possibilities for the development of the individual as a worthy citizen of a democracy.

Faculty advisers are available for consultation with students during registration, and throughout the school year.

Although regularly established as a state college, the Long Beach State College for the present will offer only work on the upper division and graduate levels. The offerings are primarily for those who may secure the desired degree or credential within two years, and for graduate students who are working toward the master's degree.

ACCREDITATION

Northwest Association

Long Beach State College is accredited by the Northwest Association of Secondary and Higher Schools as a degree granting college.

State Department of Education

The State Department has authorized the Long Beach State College to offer training leading to the following teaching and administrative credentials:

- Kindergarten-Primary
- General Elementary
- General Secondary
- Special Secondary in Art
- Elementary School Administration
- Secondary School Administration
- Elementary School Supervision
- Secondary School Supervision

The college offers courses acceptable to the state department as meeting the specific requirements for most of the other credentials issued on direct application to the department.

ADMISSION TO THE COLLEGE

For the present, admission is confined to students who may complete the desired degree or credential within two years.

GENERAL PROCEDURE

An applicant should make application for admission well in advance of the semester in which he plans to register. The application form may be secured from the Registrar.

The candidate must request the colleges which he has attended to forward to the Registrar, Long Beach State College, a complete transcript of all work undertaken. These transcripts are not official unless forwarded directly by the college concerned.

A fee of \$2 for evaluation of these transcripts must be paid at the time the application is filed. The transcripts are evaluated upon receipt, and the applicant is advised as to admission and the credits he has been allowed towards the requirements for graduation. If his application is accepted the candidate should register at the time indicated on the "permit to register" which is mailed to him.

ADVANCED STANDING

From Junior Colleges

Not more than 64 semester units of work will be accepted for credit from a junior college.

Work taken in junior college to make up deficiencies in the high school record is not accepted as college credit.

To meet the lower division requirements of the state college program, students should include among their transfer units the following:

English 6 units, natural science 12 units (including one year of laboratory science), social science 12 units, general psychology 3 units, physical education 2 units.

In preparation for special work in the upper division, additional lower division courses are suggested by each department in the Long Beach State College. These may be found under the departmental announcements.

From Other Colleges

Credits from other colleges will be evaluated on the basis of official transcripts submitted by the registrar of the college concerned. Equivalent credit will be given where these courses meet the standards and requirements of this college.

Credits earned at nonaccredited colleges may be accepted as a basis for advanced standing only where it can be demonstrated that the work is of quality comparable to that of similar state college courses.

Graduate Standing

Graduates of a recognized college or university may apply for admission as graduate students.

FEES AND EXPENSES

Registration Fees for Each Semester:

Regular Students (6 or more units)	
Tuition per semester.....	\$6.50
Materials and service fee per semester.....	7.50
Total per semester.....	\$14.00
Associated Student Body Fee (not a state fee)	
Regular students.....	\$6.50
Extended day students.....	1.00
Limited Students (5 or less units)	
Tuition per unit.....	\$2.50
Material and service fee per unit.....	.75
Total per unit.....	\$3.25
Late registration fee.....	\$2.00
Other Fees or Charges	
Change of program.....	\$1.00
Evaluation of records (payable at time of application).....	2.00
Diploma fee (for graduating seniors only).....	2.00
Official transcript of record—after <i>first</i> copy.....	1.00
State fee for each teaching credential.....	4.00

Auditors pay the same fees as others.
Nonresidents pay no additional fee.

DEGREES

The Long Beach State College has developed a variety of offerings so that it may serve the needs and interests of the community. A student may work towards the bachelor's or the master's degree in the field of his major interest. If he is interested in securing a teaching credential, he may select course work which will enable him to qualify for both the credential and the degree.

The student may secure a bachelor's degree with a major in any of the fields of art, business, economics, education, English, history, music, biological science, social science, and psychology. As the facilities of the college are enlarged, majors in other departments will be available but initial courses are offered in most of the academic fields.

At present these courses are designed for upper division students.

THE BACHELOR OF ARTS DEGREE

Graduation Requirements:

1. Completion of at least 120 semester units of college work.
2. An average grade of "C" in all college work.
3. Completion of at least 24 units of work (ordinarily the senior year) at Long Beach State College.
4. Completion of one major and one minor (as outlined by each department).
5. Completion of the state requirement in United States history and Constitution.
6. Completion of the following specific subject requirements: (Usually completed in the lower division)

Social science	12 units
Natural science	12 units
(Including a year of laboratory science)	
English	6 units
Psychology (general psychology)	3 units
Physical education	2 units
7. A minimum of 40 units upper division courses.

1952 Requirements:

Effective September, 1952, students entering the college must meet the following requirements:

1. Completion of at least 124 semester units of college work with a minimum of 40 units of upper division credit.
2. An average grade of "C" in all college work.
3. Completion of at least 24 units of work (ordinarily the senior year) at Long Beach State College.
4. Completion of the following general education subject requirements (usually completed in lower division):
 - a. Social sciences 9 units
 - b. Natural sciences 9 units
(Including a year of laboratory science)
At least one course in physical science *and* one in biological science.
 - c. Literature, philosophy, or the arts 6 units
(A maximum of 3 units in fine and applied arts)
 - d. Health and physical education 2 units
 - e. Oral and written expression 3 units
 - f. General psychology 2 units
 - g. Electives 14 units

(These may be distributed in whole or in part over the areas mentioned in a, b, c, d, e, f, or in foreign languages (maximum 6 units), mathematics and family life education.

5. Completion of a major (minimum 24 units) in addition to any work outlined in item 4. The student should consult the announcement of the division in which he is interested for details of majors in specific fields.
6. A minor *may* be required, depending on the student's objective. Each division outlines the requirements for a minor.
7. Completion of the state requirement in United States history and Constitution. (This may be included in the general education requirement. 4 (a))

BACHELOR OF SCIENCE DEGREE

The requirements for the bachelor of science are the same as those outlined for the bachelor of arts with the following exception:

Major

The *minimum* requirement is 36 units in addition to any general education courses. The major is a sequence of courses organized to meet the requirements of an approved vocational objective.

Minor

No minor is required.

BACCALAUREATE DEGREE IN VOCATIONAL EDUCATION

Upon recommendation of the State Board of Examiners for Vocational Teachers, teachers who now hold a long-term vocational credential may be permitted to substitute occupational, supervisory, and management experience for limited credit towards the bachelor's degree. Details of the procedure for evaluation of this experience, and of the additional requirements for the baccalaureate degree in vocational education may be secured in the Registrar's office.

THE MASTER'S DEGREE

Long Beach State College is authorized to grant the master's degree when it is accompanied by a teaching credential. Details of this program may be secured in the Registrar's office.

APPLICATION FOR DEGREE

At least one month before the opening of the semester in which he expects to complete the requirements for graduation, the student must make application for graduation at the Registrar's office. This allows time for all records to be checked and for adequate counseling before registration is completed for the final semester.

TEACHING CREDENTIALS

For details of the requirements for the teaching credentials see the announcement under "Education" page 29.

GENERAL REGULATIONS

REGISTRATION

Detailed instructions regarding registration procedures are issued from the Registrar's office prior to the beginning of each semester.

A student is not permitted to attend any class for which he has not registered. Any change of program must be made in the Registrar's office within the regular calendar dates.

GRADES AND SCHOLARSHIP

In the college each student's work is reported to the Registrar in one of six scholarship grades as follows:

A excellent	3 grade points per unit
B good	2 grade points per unit
C fair	1 grade point per unit
D barely passed	0 grade point per unit
F not passed	0 grade point per unit

A grade of *Incomplete* may be given because of failure to complete part of the work of the course. It indicates that the course may be completed without actually repeating the course.

In order to qualify for any bachelor's degree the student must have obtained at least as many grade points as there are units in the total credit value of all work taken.

A student who does not maintain a "C" average for any semester may be placed on probation until such time as he has demonstrated his ability to achieve acceptable standards of scholarship.

AMERICAN HISTORY AND INSTITUTIONS REQUIREMENT

Candidates for the bachelor's degree must satisfy the "Requirement in American History and Institutions."

Candidates for any teaching credential must comply with this regulation.

This regulation may be met by completion of equivalent courses in United States History, and American Political Institutions taken at another college.

STUDENT LOAD

A student may not carry more than 16 units of work in one semester without special permission from a faculty adviser.

A student who is doing 8 units of directed teaching will need special permission to carry more than 4 units in addition to the teaching load.

WITHDRAWALS

Students wishing to withdraw from college should file an application for withdrawal in the Registrar's office.

ATTENDANCE

Students are expected to attend class regularly.

On occasions when absence is due to serious illness, accident, college activity, or other justifiable reason the student should make arrangements with the instructor to be excused from attendance.

At such time as the instructor feels that the student has been absent too frequently to be able to secure credit for the course, the student may be dropped from the class after being warned.

MAJORS AND MINORS

Detailed requirements for the majors and minors are found under the departmental announcement of courses.

Effective September 1, 1951, the minimum requirement for a major offered as a teaching field for the General Secondary Credential is 36 units of work.

RESIDENCE

Candidates for a degree at this college must be enrolled for a minimum period of one year. This involves the completion of at least 24 units of work.

REPORTS TO STUDENTS

Reports of grades will be available for each student at the end of each semester. Students may have these mailed to them by leaving a stamped, addressed envelope at the Registrar's office, or may secure them by calling at the Registrar's office later in the semester.

TEACHING CREDENTIAL

The requirements for the various teaching credentials are listed under the Education Department announcement, page 29.

GENERAL INFORMATION

Extended Day Classes

A wide range of classes is conducted on the campus in late afternoons and evenings for students unable to attend during the day. These classes are designed primarily for those regularly employed.

The extended-day offerings are a definite part of the regular college program and carry the usual college credit.

Summer Session

The college conducts a six weeks' summer session which opens immediately following the close of the spring semester. In addition to the regular offerings of the college, many special features are a part of the program. A copy of the summer session announcement may be secured late in the spring semester by writing the Coordinator of the Summer Session.

STUDENT PERSONNEL SERVICES

The student personnel program utilizes a chain of interlocking activities known as personnel services to respond to the needs of students.

Counseling

Advice on academic problems is given by the department chairmen assisted by members of the faculty representing the student's major or minor interests and fields of study. All faculty members participate in the informal guidance program based on the philosophy that each student should have the opportunity to receive individual counsel. A pre-registration counseling program by the staff and faculty provides individual and group academic counseling for the entering student in planning his course of study. Counseling on all academic problems is administered through the office of the Dean of Students. A friendly and pleasant attitude prevails in any assistance offered in the form of counsel.

Campus social activities and student organizations offer ample opportunity for informal counseling and are adapted to the spirit of companionship which exists in the college.

Advice on financial problems, student loans, etc., is available through the Dean of Students' office. Information on educational assistance under veteran and vocational rehabilitation programs is available in the offices of the Dean of Students and of the Accounting Officer.

Health Service

The college has employed a consulting physician and nurse who deal understandingly and helpfully with the physical problems of the individual. Each student enrolled in the college is expected to visit the health center for consultation on any physical problem. All students will receive a physical examination by the college physician. The consulting physician and the psychology staff assist students in their psychological and emotional problems. A dispensary is maintained to provide emergency and minor medical treatment for members of the student body.

Housing

There are no student resident halls on campus but for students unable to live at home, accommodations may be secured in Long Beach. The campus is served by city bus lines, and is accessible from several main highways. Plans are being developed for future student housing on campus together with fraternity and sorority living accommodations. Students who desire housing should contact the office of the Dean

of Students for assistance in finding rooms which have desirable living conditions for both health and study.

Scholarship and Loan Funds

Although Long Beach State College is a new institution, there are now available several loan funds and scholarships for limited financial aid to students. The California Congress of Parents and Teachers has provided two scholarships for outstanding students enrolled in a teacher training curriculum. Additional scholarship funds, without restriction as to course of study, have been provided by the Long Beach Pan-Hellenic Association and the Knights Templar Educational Foundation. The senior class of 1950 established a small fund for the purpose of short-term student loans. The Art Club has provided a limited fund for the assistance of outstanding art students. Details concerning the granting of loans and scholarships may be obtained from the office of the Dean of Students.

Placement

Occupational counseling and assistance in finding suitable employment opportunities for graduates, and part-time work for students is a service offered by the Placement office of the college. This service has as its major objectives the following: to provide well-trained teachers for the public schools of the State, to assist graduates in obtaining employment which best fits their needs and training, and to assist students in finding part-time work to aid in financing their education.

Aid to Veterans

The Long Beach State College is approved for the training of veterans. Public Law 346 is applicable to any veteran, and Public Law 16 to any veteran with a service-incurred disability.

The State of California has made provision for educational assistance to qualified veterans who were residents of California at the time of entering military service.

The Federal Government and the State of California also provide educational benefits for the widows and orphans of certain veterans.

Veterans who plan to use the benefits of the G.I. Bill must present a certificate of eligibility from the Veterans Administration or State Department of Veterans Affairs upon registering.

Vocational Rehabilitation

Students having a disability which is determined to be a vocational handicap, may be eligible for services provided by the State Bureau of Vocational Rehabilitation, State Department of Education. Vocational guidance, payment of such school expenses as tuition, books and supplies, and certain other services including medical care to overcome a disability, are provided by the Rehabilitation Bureau on the basis of the need of the student. A counselor from the bureau will interview students several times a semester on the campus or by appointment at the district office, 620 Times Building, 215 American Avenue, Long Beach, telephone 7-2906.

College Bookstore and Food Services

A college bookstore is maintained to supply students with prescribed textbooks and stationery supplies and items desired for personal use. Students attending the college under federal or state G.I. education programs or state rehabilitation programs will be furnished the prescribed books and supplies at the expense of the sponsoring agency.

A college food service is established for the benefit of the students. A coffee shop and canteen offers snacks, sandwiches and lunches where both students and faculty gather in an informal atmosphere. The food service is inspected by the Long Beach City Health Service and meets all state, city and county requirements.

Student Activities

All students are expected to belong to the Associated Student Body organization of the college. The fee payable at time of registration is \$6.50 per semester. This membership fee is used to support all student activities in accordance with an established budget of available funds.

The student body organization at Long Beach State College is represented by its elected officers who constitute the Student Body Executive Council. During the academic year 1949-50 an interim Executive Council was elected to conduct student body affairs during the first year of operations and to draft a proposed constitution to govern the permanent student body organization. This constitution was officially adopted by the student body in the spring of 1950. The important activities of the student body may be summarized as follows:

1. Determination of rules, regulations and the adoption of by-laws governing the conduct of student affairs.
2. Preparation of proposed budget controlling the expenditure of student body funds.
3. Supervision of the election of student body and class officers.
4. Granting of recognition to official college student organizations.
5. Planning and supervision of student assembly programs.
6. Sponsoring of service activities for the general welfare of the college through subordinate organizations: Associated Men Students and Associated Women Students.
7. Approval and sponsorship of all student body social functions.
8. The following specific activities are sponsored and financed in whole or in part by the associated students: the weekly college newspaper, the *49er*; the college yearbook; the inter-collegiate program of athletics.

Student assembly programs are held throughout the year. The college is temporarily handicapped due to the lack of auditorium facilities, and the assembly programs are, therefore, held out of doors.

During the first year of operation of the college two local fraternities and four sororities were organized and officially recognized by the student executive council and the college administration. The college administration is actively interested in the fraternity movement, and it is expected that additional groups will be organized as the college population increases.

Additional activities of an intellectual, social or cultural nature sponsored by the student body and college administration are as follows: Art Club, Commerce Club, International Club, Women Students Organized for Service, Creative Writing Club, Beta Sigma (Science Club), History Forum, California Student Teachers' Association, College Choir, and Inter-Varsity Christian Fellowship.

The college requires that each student organization and activity be given general supervision by a member of the faculty or administrative staff. It is not intended that such advisers exercise a dictatorial policy in their relationships with the organizations or activities involved, but rather that they be of general assistance in relating the affairs of these groups to the over-all welfare of the college and its population. Officially recognized patrons and patronesses are present at all student social functions.

The academic year 1950-51 marks the beginning of participation by the college in a program of intercollegiate athletics. Opportunity also is provided for participation in a wide variety of intramural sports, including golf, tennis, swimming and other sports of interest to the student body.

COURSES OF INSTRUCTION

DIVISION OF FINE AND APPLIED ARTS

ART

It is the purpose of the Art Department to provide sound and stimulating art curricula designed to meet the needs of the following types of students: (1) students who feel that an understanding and appreciation of the arts offers genuine possibilities for realizing a richer individual and social living pattern; (2) students who plan to enter the teaching profession on either the elementary or secondary level; (3) students seeking vocational competence in art.

Programs have been planned for each group of students. For students in the first group, course programs have been planned leading to the B.A. degree with a major in art. For students in the second group, special courses related to the age level with which the student will be most concerned are being offered. For students in the third group who are specializing in art with the intention of entering one of the art fields such as advertising design, industrial design, ceramics, or museum work, various courses are offered which lead to the B.A. degree and will serve as a basis for future specialization in these areas at a professional art school.

For students planning to teach in the secondary school, programs have been planned in relation to the requirements leading to the B.A. degree with a Special Secondary Credential in Art, and to the General Secondary Credential with a major or a minor in art. The aim of these course patterns is the development of teachers who understand the relationship between creative activity and child growth, the role of the arts in daily and communal life, the relationship of art activities to the other experiences in the curriculum, and the potentialities for art expression as a basis for individual and group activities within the classroom, the school and the community.

TEACHING MAJORS

Recommended course program for students working for the B.A. degree with a Special Secondary Credential in Art.

(This program qualifies the student to teach only art on both the elementary and secondary school levels. Students planning to take this program must also meet the college requirements for the baccalaureate degree listed on page 16 and the requirements established by the Committee on Teacher Education for directed teaching listed on page 29 of this catalog.)

REQUIRED COURSES IN ART:

LOWER DIVISION: Recommended preparation—drawing and painting, 6 units; design, 4 units; general crafts, 2 units; art appreciation or art history, 4 units.

UPPER DIVISION: A minimum of 24 units selected from the fields of drawing and painting, design, crafts, art appreciation and art history in consultation with the departmental adviser.

RECOMMENDED ELECTIVES:

Music appreciation, stage craft, modern dance, speech arts, woodwork, mechanical drawing, printing and typography, general metal and metal craft, machine shop, clothing, textiles, and photography.

Recommended course program for students working for the General Secondary Credential with a Major in Art

REQUIRED COURSES IN ART:

Same major program in art as outlined for the Special Secondary Credential in Art. In addition, students are required to take at least 6 units in art in their graduate year.

TEACHING MINORS

A teaching minor in art requires a total of 20 units.

LOWER DIVISION: Recommended preparation—8 units, distributed as follows: art history or appreciation, 2 units; drawing and painting, 2 units; design, 2 units; crafts, 2 units.

UPPER DIVISION: A minimum of 12 units selected in consultation with a departmental adviser.

NONTEACHING MAJORS

Recommended course program for students working for the A.B. Degree with a Major in Art

(Students planning to take this program must also meet the college requirements for the baccalaureate degree listed on page 16 of this catalog.)

REQUIRED COURSES IN ART:

LOWER DIVISION: Recommended preparation—drawing and painting, 4 units; design, 4 units; crafts, 2 units; art history or appreciation, 2 units; electives in major area of interest, 4 units.

UPPER DIVISION: A minimum of 24 units planned in consultation with major departmental adviser.

NONTEACHING MINORS

A minor in art requires a total of 20 units, at least 10 of which must be in upper division and planned in consultation with a departmental adviser.

APPRECIATION AND ART HISTORY

101 Appreciation of Contemporary Art (2 units)

Discussion and evaluation of the visual arts as they contribute to contemporary living.

102 Appreciation of Modern Painting and Architecture (2 units)

A study and evaluation of the work of contemporary painters and architects with emphasis on the Southern California area.

109 Survey of Art History (2 units)

A study of the development of art among humans from prehistoric times to the present day.

111 History of Art (2 units)

A study of the main examples of the Renaissance and Baroque periods.

121 Art in the Community (2 units)

Discussion and evaluation of the arts and art materials as a part of communal life and activities in relation to primitive, historical, and contemporary cultures. Particularly recommended for social studies teaching majors.

151 History of Art (2 units)

A study of modern art since 1800.

152 History of Art (2 units)

A study of Cubism, Dadaism, Sur-realism, and their effects on contemporary American art.

159 Special Studies in Art Appreciation and Art History (1-4 units)

Intensive study and evaluation in one area of art history and appreciation. Prerequisite: permission of instructor.

DESIGN

103 Design and Composition (2 units)

Experiences with various media for designing objects for use in the contemporary environment.

104 Design and Composition (2 units)

Prerequisite: Art 103

Special problems in surface design.

113 Interior Design (2 units)

The functional, social and aesthetic problems of house design.

123 Advertising Design (2 units)

Development and projection of ideas in relation to the technical, aesthetic, and psychological aspects of advertising art.

133 Industrial Design (2 units)

Planning, designing, and making of useful objects in relation to the technological, psychological and social aspects of our contemporary industrial society.

143 Costume Design (2 units)

The design and construction of clothing in relation to personality, materials and processes.

153 Special Studies in Design (1-4 units)

Intensive work in one design area. Prerequisite: Permission of instructor.

173 Theatre Design (2 units)

The designing and making of sets, costumes, and properties for the contemporary theater in education.

CRAFTS

105 Introduction to Crafts (2 units)

Use of clay, paper, wood, wire, and metal to create both two- and three-dimensional art forms.

106 General Crafts (2 units)

Further experiences in the use of clay, wood, plastics, and fabrics with emphasis on the development of forms for use in contemporary living.

115 Ceramics (2 units)

An introduction to ceramic materials, design, forming, glazing and firing.

116 Ceramics (2 units)

Further experiences in working with ceramic materials and design.

155 Special Studies in Crafts (1-4 units)

Intensive work in one area of crafts.

Prerequisite: Permission of instructor.

165 Sculpture (2 units)

Experiences in the creative use of the techniques and materials of sculpture.

DRAWING AND PAINTING

- 100 **Exploratory Course in Art (2 units)**
An introduction to the creative use and appreciation of art materials and processes.
- 107 **Drawing and Painting (2 units)**
Use of painting materials with emphasis on individual growth and planning.
- 108 **Drawing and Painting (2 units)**
Prerequisite: Art 107.
Further experiences in using various painting media.
- 150 **Painting for Fun (2 units)**
Opportunities for students with little or no experience in art to work creatively with various painting media both indoors and outdoors. Particularly recommended for teachers in the Elementary School.
- 157 **Special Studies in Drawing and Painting (1-4 units)**
Individual research and specialization in the use of one medium.
Prerequisite: Permission of instructor.

ART EDUCATION

- 110 **Elementary School Art (2 units)**
A study of art materials, processes, and methods of teaching as they contribute to the daily living of the elementary school child.
- Educ.
- 114 **Introduction to Art Education (2 units)**
An introduction to the study of principles, practices, and materials in art education; observation and evaluation of art activities in the public schools; preparation and use of visual materials in relation to specific art experiences.
- 120 **Elementary School Crafts (2 units)**
The creative use of paper, clay, wood, and other art materials in relation to the elementary school program.
- 160 **Clay Modeling for Teachers (2 units)**
Use of clay as an expressive medium, including the modeling of small objects, pottery making, and methods of decoration.
- Educ.
- 167 **Curriculum and Methods of Art Education (2 units)**
Objectives, curriculum, materials, and procedures in art education in a democratic society; a survey of current practices in art teaching, including the relationship of art to the total school program.

GRADUATE COURSES

- 201 **Seminar in Art Appreciation and History (1-6 units)**
Special studies, research and evaluation of the development of art from pre-historic times to the present day. For graduate students only.
- 203 **Studio Problems in Design (1-6 units)**
Advanced work in the field of design with emphasis on planning and development of individual projects. For graduate students only.
- 205 **Studio Problems in Crafts (1-6 units)**
Advanced work in the field of crafts with emphasis on planning and development of individual projects. For graduate students only.

- 207 Studio Problems in Drawing and Painting (1-6 units)**
Advanced work in the field of drawing and painting with emphasis on planning and development of individual projects. For graduate students only.
- 210 Seminar in Art Education (1-6 units)**
Special studies, research, and evaluation of the role of the art teacher in contributing to the total development of the learner in a democratic society.

MUSIC

The primary function of the music curricula is to provide such programs as will contribute to the professional and cultural education of the prospective classroom teacher. A further objective is to provide the necessary specialization required of those students who choose music as their major or minor.

For major and minor requirements see division chairman.

MUSIC EDUCATION

- 139 School Music Fundamentals (2 units)**
A study of the rudiments of music. Practice in simple ear-training, dictation, rhythm work, syllable reading and group singing. For students who have had no previous experience in music. Particularly recommended as a preparatory course for Music 140 or 141.
- 140 Kindergarten-Primary Music (2 units)**
A study of principles, procedures and materials of the music program in kindergarten and primary grades.
- 141 Elementary School Music (2 units)**
A basic preparation in music education for the elementary teacher. Study of aims, methods and organization of materials and activities in elementary schools in keeping with modern trends in educational philosophy and psychology.
- 143 Music in General Culture (2 units)**
A nontechnical course designed to increase interest and pleasure in music through the development of basic understandings, the broadening of the student's experience in music and through growth in appreciation of music in relation to general culture. Primarily for nonmusic majors, but open to all interested persons.
- 200 Secondary School Music (3 units)**
A basic preparation in music education for the secondary school teacher.
- 152 Instrumental Conducting (2 units)**
Studies of appropriate gestures together with experience in score reading. Three periods per week.
- 160 Choral Conducting and Literature (2 units)**
Principles and techniques of choral conducting. Problems of choral organization. Study and interpretation of choral materials, using the class as a laboratory group. Three periods per week.
- 205 Seminar in Music Education (3 units)**
A critical evaluation of current methods in public school music. Comparative study of techniques of music teaching.

THEORY AND COMPOSITION

- 135 Solfeggio (3 units)**
Review of dictation, sight reading and keyboard problems covered in lower division theory courses. A study of advanced problems in tone-thinking and ear-training. For regular or transfer students whose upper division placement examination indicates a need for additional study.
- 136 Harmony (3 units)**
Review of harmonic principles. For regular or transfer students whose upper division placement examination indicates a need for additional theoretical study.
- 176 Studies in Musical Analysis (2 units)**
This course is designed to emphasize relationships of various details to a synthesis of complete forms. The focus of the course is upon material of the Eighteenth and Nineteenth Centuries.
- 172 Band Arranging (2 units)**
Studies in writing for wind instruments, alone and in combinations.

MUSIC HISTORY AND LITERATURE

- 225 Music in Western Civilization (3 units)**
Analysis of style and cultural implications of western music.

APPLIED MUSIC

(Maximum credit in Applied Music, 4 units)

- 120a Class Piano (1 unit)**
A class in the fundamentals of piano techniques. Primarily for elementary education students who have little or no knowledge of the piano keyboard.
- 120b Class Piano (1 unit)**
A service course for elementary education students who have a rudimentary knowledge of the piano keyboard. Prerequisite: 120a or equivalent.
- 120c Class Piano (1 unit)**
Performance of easy to medium difficult compositions. Melody and chord playing techniques for use in the classroom. Prerequisite: Music 120a and 120b or equivalent.
- 120d Class Piano (1 unit)**
Performance of moderately difficult compositions in various forms. Simple transpositions and improvising. Study of music suitable for rhythmic activities and folk dances. Prerequisite: Music 120a, 120b, 120c, or equivalent.
- 122a Class Voice (1 unit)**
A study of the technique of vocal production and an application of this technique in simple songs. Designed for elementary and secondary education students who have had little or no singing experience.
- 122b Class Voice (1 unit)**
A service course for elementary and secondary education students. Study of vocal techniques as applied to solo and ensemble singing. Problems of vocal production in changed and unchanged voices.
- 122c Class Voice (1 unit)**
Performance of moderately difficult songs. Problems of breathing and breath control, proper tone production, diction. Principles of song interpretation.

122d Class Voice (1 unit)

Continuation of Class Voice 122c with use of more difficult materials.

124 Brass Instruments (1 unit)

Class instruction in brass instruments. Problems of embouchure, technique, intonation, tone and style. Participation in beginning band or orchestra.

125 Woodwind Instruments (1 unit)

Class instruction in woodwind instruments. Problems of embouchure, technique, intonation, tone and style. Participation in beginning band or orchestra.

126 String Instruments (1 unit)

Class instruction in the playing of the violin, viola, violoncello and bass. Participation in beginning orchestra.

127 Percussion Instruments (1 unit)

Class instruction in playing with the various percussion instruments of the band and orchestra.

MUSICAL ACTIVITIES

(Enrollment in all ensembles is subject to the approval of the instructor)

100 Choir (2 units)

A cappella and accompanied singing of standard and modern choral compositions. Meets five times weekly.

105 Band (1 unit)

Study and performance of standard and symphonic band literature. Formal concerts and various appearances at college functions. Meets three times weekly.

110 Symphony Orchestra (1 unit)

Study and performance of standard symphonic repertoire and selected modern works. Meets three times weekly.

119 Male Octet (1 unit)

Male ensemble singing. Performances at college and civic functions and on radio broadcasts. Not limited to music students.

114 Woodwind ensemble (1 unit)

Two periods per week.

113 Chamber Music (1 unit)

Two periods per week.

DIVISION OF EDUCATION, PSYCHOLOGY AND PHILOSOPHY

EDUCATION AND PREPARATION OF TEACHERS

DIRECTED TEACHING

All candidates for directed teaching in any semester must make application in the Registrar's office early in the previous semester. To be accepted for directed teaching by the Committee on Teacher Education a candidate must meet the following conditions:

1. Be a regularly enrolled student at Long Beach State College a minimum of one semester previous to doing directed teaching.
2. Be proficient in the subjects required by law to be taught in the elementary school (Education Code 12130).
3. Complete all courses required as preparation for directed teaching.
4. Maintain standards of speech acceptable in classroom teaching.
5. Possess standards of physical fitness and personal qualifications prescribed by the State Department of Education.

Exceptions to these regulations may be made *only* by approval of the Committee on Teacher Education.

CREDENTIALS

Regularly enrolled students working towards a credential at this institution must meet the following requirements.

General Elementary Credential Requirements

(In addition to any degree requirement):

1. An acceptable bachelor's degree.
2. A major in elementary education.
(No grade lower than "C" is acceptable in any course in the major.)

REQUIRED COURSES

24 Units in Education Courses as follows:

Educ. 103. Principles and Curriculum in Elementary Education (2 units)

Educ. 105. Child Growth and Development (through adolescence) (3 units)

7 Units, *Methods, Content, Experiences, Observation and Evaluation in the Elementary School.*

Educ. 145: General Classroom Methods (1 unit) } Must be taken

Educ. 152. Social Studies in Elementary school (2 units) } concurrently

Educ. 154. Arithmetic and Language Arts in the Elementary School (2 units)

Educ. 151. Reading in the Elementary School (2 units)

Educ. 185. Audio-Visual Materials (2 units)

2 Units selected from:

Educ. 190. School and Society (2 units)

Educ. 140. Educational Statistics (3 units)

Educ. 109. Tests and Measurement in the Elementary School (2 units)

Educ. 106. Educational Psychology (the learning process) (2 units)

Educ. 192. Directed Teaching in the Elementary School (8 units)

6 Units in Special Methods and Content

Art 110—Art in the Elementary School (2 units)

Music 141—Music in the Elementary School (2 units)

Physical Education 125—Physical Education in the Elementary School (2 units)

3. *Electives in General Education.*

30 Units (in addition to courses selected to fill *any* other requirement).

1. At least one course must be selected from each of the *five* areas.
2. Not more than ten units may be selected from any *one* area.
3. Courses marked ** are *required* if no equivalent has been taken.
4. Not more than six units may be used to make up a deficiency in entrance requirements usually taken in lower division.

Natural Science

- ** Nature Study
- Introduction to Physical Science
- Introduction to Biological Science
- General Physiography
- Astronomy
- Bird Study
- Marine Ecology
- General Ecology

Language and Literature

- ** Children's Literature
- American Literature
- Appreciation of Literature
- The Novel
- Modern Drama

Fine and Applied Arts

- Music in General Culture
- Music in Western Civilization
- Appreciation of Contemporary Art
- Appreciation of Modern Painting and Architecture
- Introduction to Crafts
- Survey to Art History

Social Studies

- ** History of California
- ** Geography of California
- World Geography
- The United States—Colonial Period
- State and Local Government
- Geography of North America
- Human Geography
- Social Trends and Problems
- Fundamentals of Economics
- Community Recreation
- International Relations

Education, Psychology, Philosophy

- Introduction to Philosophy
- Ethics
- Any course in Education and Psychology approved by the Division Chairman

4. Completion of a course of at least 2 units or the passing of an examination on the Principles of the Constitution of the United States (American Constitutional Development, American Political Institutions).

Kindergarten-Primary Credential Requirements

1. Acceptable bachelor's degree.
2. A major in Kindergarten-Primary Education.
(No grade lower than "C" accepted in any course in the major.)

REQUIRED COURSES

24 Units in Education Courses as follows:

- Educ. 102. Kindergarten-Primary Education (3 units)
- Educ. 105. Child Growth and Development (through adolescence) (3 units)
- Educ. 160. Kindergarten-Primary Methods (3 units)
- Educ. 185. Audio-Visual Materials (2 units)

At least 5 units from the following:

- Educ. 145. General Classroom Methods (1 unit)
- Educ. 152. Social Studies in Elementary School (2 units)
- Educ. 190. School and Society (2 units)
- Educ. 140. Educational Statistics (3 units)
- Educ. 109. Tests and Measurement in the Elementary School (2 units)
- Educ. 106. Educational Psychology (the learning process) (2 units)
- Educ. 154. Language Arts and Arithmetic in the Elementary School (2 units)

- Educ. 151. Reading in the Elementary School (2 units)
- Educ. 191. Directed Teaching—Kindergarten-Primary Level (8 units)

6 Units in Special Methods and Content

Art 110—Art in the Elementary School (2 units)

Music 140—Kindergarten-Primary Music (2 units)

Physical Education 125—Physical Education in the Elementary School (2 units)

3. *Electives in General Education*

30 Units (in addition to courses selected to fill *any* other requirement).

1. At least one course must be selected from each of the *five* areas.
2. Not more than ten units may be selected from any *one* area.
3. Courses marked ** are *required* if no equivalent has been taken.
4. Not more than six units may be used to make up a deficiency in entrance requirements usually taken in lower division.

Natural Science

** Nature Study

Introduction to Physical Science

Introduction to Biological Science

General Physiography

Astronomy

Bird Study

Marine Ecology

General Ecology

Language and Literature

** Children's Literature

American Literature

Appreciation of Literature

The Novel

Modern Drama

Fine and Applied Arts

Music in General Culture

Music in Western Civilization

Appreciation of Contemporary Art

Appreciation of Modern Painting
and Architecture

Introduction to Crafts

Survey of Art History

Social Studies

** History of California

** Geography of California

World Geography

The United States—Colonial
Period

State and Local Government

Geography of North America

Human Geography

Social Trends and Problems

Fundamentals of Economics

Community Recreation

International Relations

Education, Psychology, Philosophy

Introduction to Philosophy

Ethics

Any course in Education and Psy-
chology approved by the Di-
vision Chairman

4. Completion of a course of at least 2 units or the passing of an examination on the Principles of the Constitution of the United States (American Constitutional Development, American Political Institutions).

General Secondary Credential Requirements

1. An acceptable bachelor's degree with a major and a minor selected from the following subject fields:

Art

Business Education

English

Foreign Language

Health Education

Homemaking

Industrial Arts

Language Arts

Life Science and General Science

Mathematics

Music and Speech Arts

Physical Education

Physical Science and General Science

Social Studies

Speech

For details of the required courses for majors and minors see the announcements in each department.

2. One complete year of two semesters of work (at least 30 units) beyond the bachelor's degree. This must include: (a) at least 6 units of professional education, (b) at least 6 units in subject fields commonly taught in secondary schools.

3. If the undergraduate major is in a field not commonly taught in the secondary school, two minors in the above fields are acceptable in lieu of a major not listed above.

4. The five-year program must include at least six units in *each* of the following four areas (total 24 units):

(a) Science and/or mathematics

(b) Art, music, physical education, health education, homemaking, industrial arts

(c) Social studies

(d) Languages, literature, composition, speech, drama.

NOTE: Any of the courses selected from the groups listed above may be counted toward the fulfillment of *any* degree requirement.

5. The five-year program must include the following 24 units in *Education*:

Educ. 104. Principles and Curriculum of Secondary Education..... (3 units)

Educ. 105. Child Growth and Development (through adolescence)..... (3 units)

Educ. 106. Educational Psychology—the learning process..... (2 units)

Educ. 177. Counseling and Guidance..... (3 units)

Educ. 108. Measurement and Evaluation in the Secondary School..... (2 units)

Educ. 185. Audio-Visual Methods and Materials..... (2 units)

Educ. 166. Methods of Teaching Secondary School Subjects..... (3 units)

Educ. 193. Directed Teaching in Secondary School..... (6 units)

6. The student who has completed some of the required courses in *Education* in his undergraduate program may select any other professional or academic courses to complete the program of his graduate year.

7. Completion of a course of at least two units or the passing of an examination in the Principles of the Constitution of the United States. (American Constitutional Development, American Political Institutions.)

8. Satisfactory standards of scholarship.

EDUCATION

102 Kindergarten-Primary Education (3 units)

This course includes the history of early childhood education, including a study of present leaders and centers of research; the principles of teaching in the nursery school, kindergarten and primary grades; a survey of the materials of instruction and curriculum of these grades, and parent-teacher relationships, including present trends in reporting pupil progress.

103 Principles and Curriculum in Elementary Education (2 units)

An examination of the principles and curriculum underlying the elementary school in a democratic society.

104 Principles and Curriculum of Secondary Education (3 units)

An examination of principles, practices and curriculum of secondary education.

105 Child and Adolescent Growth and Development (3 units)

The physical, mental, social and emotional development of the individual from infancy to maturity.

106 Educational Psychology (2 units)

Prerequisite: General Psychology (3 units).

The nature and conditions of the learning process in human development. Implications for educational practice. Individual differences and their measurement.

- 108 Tests, Measurement and Evaluation in Secondary School (2 units)**
Principles of measurement and evaluation applied to problems of the teacher in measurement of ability and achievement.
- 109 Tests, Measurement and Evaluation in the Elementary School (2 units)**
Principles of construction, use, and interpretation of standardized and teacher constructed tests, and understanding and interpretation of simple statistical measures as they apply to problems dealing with measurement and evaluation in the elementary school.
- 112 History and Philosophy of Education (3 units)**
A survey of the historical and philosophical foundations of modern education. The contributions of recent and contemporary educational philosophers and movements receive considerable attention in this course.
- 114 Introduction to Art Education (2 units)**
For course description see page 25.
- 140 Educational Statistics (3 units)**
Descriptive statistics. Graphical representation of data; measures of relative position, central tendency, and variation; correlation; normal distribution; introduction of sampling theory. Applications to problems in education and psychology with emphasis on the uses, and limitations of the statistical tools.
- 145 General Classroom Methods (1 unit)**
Identifying and applying basic principles of effective classroom procedure in lesson planning, grouping, setting standards, guiding discussions, motivating and evaluating.
- 151 Reading in the Elementary School (2 units)**
Principles, techniques and procedures in developing reading readiness and reading skills throughout primary, intermediate, and upper grades.
- 152 Social Studies in the Elementary School (2 units)**
Nature and scope of the social studies program; comparison of various methods; examination of types of units; establishing valid objectives; participating in demonstrations of units; evaluation techniques.
- 154 Arithmetic and Language Arts in the Elementary School (2 units)**
Objectives, content, materials, pupil experiences, and methods of instruction and evaluation in arithmetic, written and oral English, spelling and handwriting; diagnostic and remedial techniques, and adaptation of instruction to individual capacities.
- 155 Problems in the Teaching of Reading (2 units)**
Advanced study of the problems and trends in reading instruction in the elementary school. Topics include word recognition and phonics teaching, building of basic vocabulary; some materials, techniques, and methods for remedial reading in the public school classroom. Should have prerequisite course 151.
- 160 Kindergarten-Primary Methods (3 units)**
On the basis of current knowledge of child growth and development, the students make a critical analysis of current activities and teaching procedures in the kindergarten-primary grades.
- 161 Curriculum in Business Education (2 units)**
Basic problems and issues in business education. Emphasis on more recent developments in the curriculum in the field of business education.

- 166 Secondary School Methods (3 units)**
Teaching and learning in the Secondary School. Considers the role of the teacher in the modern junior and senior public high school. Classroom management, basic techniques and the aspects of unit planning are dealt with. Prepares the student teacher for directed teaching in his major and minor.
- 167 Curriculum and Methods of Art Education (2 units)**
For course description see page 25.
- 168 Education of Exceptional Children (2 units)**
The psychology and education of children who deviate from the average physically, mentally, and emotionally. Special educational services necessary to promote their maximum development. (Requirement for credential for teaching mentally retarded.)
- 170 Curriculum and Methods of Teaching Mentally Retarded (2 units)**
Methods of teaching academic subjects to the mentally retarded; development of special skills and curricula to meet their needs. (Requirement for credential for teaching mentally retarded.)
- 177 Counseling and Guidance in the High School Program (3 units)**
An outline of the student personnel program in secondary schools. Types of workers and their functions; group work with students; specialized work of the counselor; organization and administration of the program; evaluation.
- 185 Audio-Visual Aids (2 units)**
Methods of using audio-visual materials and equipment to improve instruction; sources of materials and operation of equipment.
- 190 School and Society (2 units)**
Relationships between the school and the community; economic and social backgrounds of school populations; current social trends and issues as they affect education; democratic ideology and the school; education as a social function.
- 191 Directed Teaching in Kindergarten-Primary Schools (8 units)**
Open only to those who have been accepted by the Committee on Teacher Education.
- 192 Directed Teaching in the Elementary Schools (8 units)**
Open only to those who have been accepted by the Committee on Teacher Education.
- 193 Directed Teaching in the Secondary Schools (6 units)**
Open only to those who have been accepted by the Committee on Teacher Education.
- 201 School Organization and Administration, Federal, State and Local (3 units)**
The organization and administration of education at the federal, state, county and district levels. Problems of public school organization, management, and support with specific reference to public education in California.
- 203 Organization and Administration of Elementary Schools (3 units)**
The organization of the elementary school system in California. Administration of teacher and pupil personnel, material facilities, auxiliary services, and the school plant. Problems relating to the instructional program and curriculum development.

- 206 Legal and Financial Aspects of School Administration (3 units)**
A consideration of the law and public education, including constitutional restrictions, powers and duties of central agencies, powers of local districts, and the contractual and tort liability of school officers and employees. School revenues, apportionments, budgetary procedures, costs and business management.
- 228 Organization and Administration of Secondary Schools (3 units)**
The organization and management of secondary education in California. Administration of teacher and pupil personnel, material facilities, auxiliary services, and community relationships; problems relating to the instructional program and curriculum development.
- 231 Supervision of Instruction in Elementary Schools (3 units)**
Techniques and procedures used in the supervision of instruction in elementary schools. Emphasis on the work of general and special supervisors.
- 232 Supervision of Instruction in Secondary Schools (3 units)**
Administration of the instructional program, curriculum development, and modern programs and techniques of supervision in secondary schools.
- 250 Teaching Public Safety and Accident Prevention (2 units)**
The organization of safety work in elementary and junior high schools. (Acceptable towards a special secondary credential in public safety and accident prevention, including driver education and driver training.)
- 251 Teaching Driver Education and Driver Training (2 units)**
Objectives and methods of classroom instruction and behind-the-wheel training; tests; records and reports; insurance; administration of the program. (Acceptable towards the special secondary credential in public safety and accident prevention, including driver education and driver training.) Open only to students who are currently registered in Education 250. All students must hold a California driver's license.
- 270 Principles of Curriculum Development (3 units)**
Principles, current practices, and problems in curriculum development; psychological, sociological, philosophical, and administrative considerations in curriculum construction and revision.
- 280 Seminar on the Problems of Education (3 units)**
Independent reading, investigation and field studies in various aspects of education and educational problems.
- 291 Field Work in Elementary Education (1-1 units)**
Supervised practical experience in elementary school administration for one school year.
- 292 Field Work in Secondary Education (1-1 units)**
Supervised practical experience in secondary school administration for one school year.

PSYCHOLOGY

The psychology curriculum is designed to provide the student with (1) a broad background in the principles of scientific psychology, (2) a knowledge of the applications of psychology in specific fields, and (3) skills in the various techniques of psychological measurement and investigation.

Psychology 100, survey of psychology, or an equivalent 3-unit course in introductory general psychology is required for the bachelor's degree and is prerequisite for all other courses in the psychology curriculum. This requirement, if not already met by the student at the time of his matriculation at Long Beach State College, should be met as soon as possible.

Particular attention should be paid to the prerequisites for each course. Prerequisites may *not* be taken at the same time as courses requiring them except in very exceptional instances and then only with the written consent of the instructor of the course for which the prerequisite is required.

Major

The major in psychology requires 24 units in the psychology curriculum, not more than six of which are in lower-division courses, *and* 12 units in related upper-division courses approved by the adviser. The major also requires the satisfactory completion of courses 105 and 110. Elective courses within the psychology curriculum to complete the major should be selected with the approval of the faculty adviser in psychology and should include at least six units in courses numbered 150-199, inclusive.

Psychology majors must receive a minimum grade of C in all psychology courses which are to be counted toward the major.

Minor

The minor in psychology requires 20 units in the psychology curriculum, not more than six of which are in lower division.

Teaching Credential

Preparation for the teaching credential with a major in psychology requires two minors in subjects usually taught in high school.

Details of the school psychometrist, and school psychologist credentials may be obtained from the chairman of the division.

100 Survey of General Psychology (3 units)

A semester course in introductory general psychology. The emphasis is on the scientific aspects of psychology. Material from the laboratory and the clinic is presented as evidence for valid generalizations concerning human behavior.

105 Elementary Statistics (3 units)

Prerequisite: A knowledge of mathematical procedures usually covered in elementary high school algebra.
The calculation and interpretation of the basic statistical measures. Major emphasis will be placed on the meaning, limitations and applicability of statistical procedures. Required of all majors in psychology.

106 Statistical Interpretation (3 units)

Prerequisite: Psychology 105.
The development of skill in the application and interpretation of elementary statistical methods in the treatment of common types of data.

110 Experimental Psychology (3 units)

Prerequisite: Psychology 105.
The student performs and interprets a series of laboratory experiments which illustrate the major experimental procedures used in psychological investigation. Required of all majors in psychology.

115 Social Psychology (3 units)

The dynamics of group and cultural behavior. The emphasis is on the description and explanation of social behavior in terms of the psychological forces operative within and upon the culture.

120 Physiological Psychology (3 units)

The neurophysiological correlates of behavior are studied and the methods and findings of psychophysiology reviewed.

- 130 Abnormal Psychology (3 units)**
A study of abnormal behavior especially as it throws light on normal personality adjustment. Both the correlates of psychological with physiological states and the variability within restricted behavioral categories are emphasized. Two field trips will be required.
- 132 Dynamic Psychology and Mental Hygiene (2 units)**
The principles of dynamic psychology and their application to the mental hygiene of the student and teacher.
- 135 Industrial Psychology (3 units)**
Applications of psychology to problems of employee morale, production efficiency, accident proneness, labor relations and related topics.
- 136 Psychology in Business and Advertising (3 units)**
The application of psychology to problems of salesmanship, advertising appeal, customer reaction and related subjects.
- 137 Personnel Selection and Administration (3 units)**
Psychological methods appropriate to the selection of employees, in-service training, promotion and supervision.
- 140 Independent Study (1 to 3 units)**
Readings and conferences on psychological problems. May be taken only with the approval of the psychology adviser.
- 150 Introduction to Clinical Psychology (3 units)**
Prerequisite: Psychology 130.
A survey of diagnostic and therapeutic procedures used in the approach to individual psychological problems met with at the clinical level.
- 155 Psychological Testing (4 units)**
Prerequisite: Psychology 105, Education 108 or Education 140.
The principles and practice of group testing in the fields of intelligence and personality. The major tests of intelligence and personality will be administered to and scored by the student. Emphasis will be on the evaluation of the tests as measuring devices and on studies of their application and validity. Limited enrollment requires consent of the instructor.
- 156 Vocational Testing (4 units)**
Prerequisite: Psychology 105, Education 108 or Education 140.
Principles and practice in the field of vocational and aptitude testing. The major tests of vocational interest, academic aptitude, dexterity and specific aptitudes will be administered to and scored by the students. Emphasis will be on evaluation of the tests, applicability, validity and limitations. Limited registration necessitates consent of the instructor.
- 160 Contemporary Psychology (3 units)**
Prerequisite: Although no specific courses are required, it is suggested that the student complete at least six units in upper division psychology courses.
The modern schools of psychology are considered in historical perspective and their importance for and contribution to progress in evolving a science of behavior is evaluated.
- 199 Psychology Colloquium (1 unit)**
Discussion of current psychological problems. Open for credit only to senior majors in psychology.
- 200 Advanced General Psychology (3 units)**
Prerequisite: Psychology 105, 110 and 160.
An intensive review of the current status of the major fields of general psychology. Limited to senior and graduate students.

- 205 Advanced Statistics (3 units)**
Prerequisite: Psychology 105.
A continuation of elementary statistics with emphasis on interpretative rather than descriptive procedures. Required for the master's degree in psychology.
- 214 Psychology of Learning (3 units)**
A consideration of the experimental studies and theoretical elaborations of the major contributions to the psychology of learning.
- 255 Individual Intelligence Testing (3 units)**
Prerequisite: Psychology 105, Education 108 or Education 140.
Practice in the administration and interpretation of the Stanford-Binet and Wechsler-Bellevue. The student will be expected to administer not less than 25 Binets and 10 Wechslers to children and adults at different developmental levels.

PHILOSOPHY

- 100 Introduction to Philosophy (3 units)**
A cursive survey of the field of philosophy, defining its scope and basic principles, and briefly analyzing the major philosophical theories.
- 101 History of Early Philosophy (3 units)**
Origin, development and inter-relations of the major schools of philosophic thought, from Thales to the beginning of the Renaissance. The systems of Socrates, Plato and Aristotle, and their influence on European philosophy through the medieval period.
- 102 History of Modern Philosophy (3 units)**
From the Renaissance to the Twentieth Century. Development of modern scientific processes, and the philosophical systems of empiricism, rationalism, idealism, etc.
- 105 Logic (3 units)**
A study of the elements of ordered, consistent thought. Inductive reasoning: from the particular to the general, the formulation and establishment of scientific hypotheses. Deductive reasoning: from the general to the particular, the traditional logic of the syllogism; its application in modern tests and measurements.
- 151 Ethics (3 units)**
A study of the concepts of right and wrong and the application of moral principles to problems of everyday life. The philosophy of conduct as related to the individual and to society.
- 170 Philosophy of Religion (3 units)**
An objective study of the nature and function of religion and of fundamental religious concepts and ideals.
- 174 Recent Western Philosophical Thought (3 units)**
A survey of the philosophical systems most influential in the modern western world—naturalism, idealism, theism, pragmatism, positivism, etc.
- 175 Contemporary Philosophy (3 units)**
Discussion of recent and current books in the field of philosophy, studying trends and their impact. (Course may be repeated with credit, as different works are considered each semester.)
- 190 Problems (Credit Arranged)**
Directed study by individual students of problems suggested, or approved, by the instructor. Limited to senior and graduate students, and subject to admission by the instructor.

DIVISION OF LANGUAGE ARTS

ENGLISH

The English department has designed its offerings with three groups in mind: (1) students whose primary purpose it is to enlarge their horizons, (2) students who plan to become teachers, and (3) students who are preparing to compete in business and professional life. But these three groups are not mutually exclusive and the department stands ready at all times to advise the student as to which course or series of courses will best fit his individual needs.

The English department is particularly aware of its responsibility to future teachers and endeavors to make every course profitable to them. It is also aware that no one can compete to the best of his ability in the practical world without adequate mastery of his mother tongue. Finally, the department realizes that anyone will find himself handicapped among educated men without at least some acquaintance with the best of what has been thought and said throughout the centuries. The flexible programs outlined below are designed to carry out these objectives.

Requirements for the Teaching Major

36-40 units. At least 24 units should be in upper division courses. Special emphasis is given to outlining programs to meet the needs and interests of the individual student. Each student is assigned to an adviser who is responsible for arranging a program which meets the student's needs and is acceptable to the department as a major or minor.

In *general*, for the *teaching major*, the student should include in his program:

Composition, Structure of the Language, Journalism	12 units
Survey of English Literature	6 units
Survey of American Literature	6 units
Speech (required)	3 units

and

9-12 units selected from: (a) *or* (b)

(a) Shakespeare

Survey of the Drama

The Novel

The study of one or more Periods (Medieval, Renaissance, Age of Enlightenment, the Nineteenth Century).

Modern Drama

Modern Novel

(b) Composition and Journalism (approved courses)

The adviser will aid the student in the selection of courses such as Philosophy, English and American History, which will be of benefit in his professional preparation.

Requirements for the Teaching Minor

20 units required with at least 6 units in the upper division. The adviser will aid the student in selecting courses which meet the student's needs. In general, the 20 unit total should include:

English Composition	6 units
Survey of English Literature	
<i>and/or</i>	
Survey of American Literature	6 units

Requirements for the Liberal Arts Major

36-40 units. At least 24 units must be in upper division courses; ordinarily not more than 12 units of the total should be in the fields of composition, creative

writing, or journalism. Each student is assigned to an adviser who is responsible for arranging a program to meet the student's needs and which is acceptable to the department as a major. The normal major should include the following courses or their equivalent:

- A. Either English 106 (English Literature to 1760) or with the consent of the instructor, at least one course from each of the following groups:
 - (1) Medieval Literature (Chaucer) and/or The English Language
 - (2) The Renaissance and/or Shakespeare
 - (3) The Age of Enlightenment
- B. Either English 107 (English Literature since 1760) or, with the consent of the instructor, The Nineteenth Century.
- C. American Literature Before the Civil War
- D. One of American Literature Since the Civil War, or Modern Novel, or Modern Drama

The English department strongly recommends that students planning to do graduate work in English should include in their program as many of the following courses as possible:

Medieval Literature (Chaucer)	American Lit. to the Civil War
The English Language	American Lit. since the Civil War
The Renaissance	Shakespeare
The Age of Enlightenment	The Drama
The Nineteenth Century	The Novel

In addition they should also acquire as strong a background as possible in Philosophy, English History, and American History.

Requirements for the Liberal Arts Minor

20 units. The English minor should include as a minimum English 106-107 (English Literature Before and After 1760) and English 124-125 (American Literature Before and After the Civil War) or their equivalents in period and types courses. Every effort should also be made to include a course in Shakespeare in the minor programs.

100 Review of English Fundamentals (3 units)

A refresher course in the mechanics of written communication. Course carries three units applicable as electives but not as lower division requirements.

102 Appreciation of Literature (3 units)

How to read good literature for fun. A nontechnical study of older and modern masterpieces. Primarily for students who plan to take no other literature course. Not applicable to English major or minor.

106 Survey of English Literature to 1760 (3 units)

Both an introduction to the serious study of literature and a guide to lifelong reading. Representative selections from the major English writers from Beowulf to Dr. Johnson.

107 Survey of English Literature Since 1760 (3 units)

A continuation of 106, but may be taken independently. Representative writers from Burns to World War II.

108 Journalism (2 units)

The forms and mechanics of journalism, with practice in writing through work on the college newspaper, annual, etc. Special attention to the problems of school journalism. Valuable to prospective teachers who may be given journalism of school publications or publicity. May be repeated for an additional 2 units.

- 109 The English Language (3 units)**
The development of the English language as a guide to modern grammar and usage. Especially designed for those who plan to teach English or foreign languages on the secondary level, or who have themselves a foreign language background.
- 110 Advanced Composition (3 units)**
The writing of expository prose, with special emphasis upon organization, style and diction. Course recommended to secondary English majors and minors, but open to all qualified students.
- 112 Children's Literature (3 units)**
A survey of the literature available to children, and its backgrounds.
- 118 Current Periodicals (3 units)**
A survey of the principal periodicals, including trade and special interest magazines, their editorial policies, their public, and their influence upon contemporary opinion.
- 124 Survey of American Literature to the Civil War (3 units)**
Representative American writers from the first settlements to around 1860.
- 125 Survey of American Literature Since the Civil War (3 units)**
A continuation of 124, but may be taken independently. Representative writers from 1860 to 1920.
- 137 The Novel (3 units)**
Development of the novel as a type and a study of representative works. Recommended to those primarily interested in enriching their reading as well as to majors and minors.
- 138 The Modern Novel (3 units)**
The novels of the Twentieth Century.
- 140 Shakespeare and His Contemporaries (3 units)**
The major plays of Shakespeare, with some consideration of other important Elizabethan dramatists.
- 151 History of the Drama Before Ibsen (3 units)**
A survey of European and English drama from the ancient Greeks to the middle of the Nineteenth Century.
- 156 Poetry (3 units)**
The development of poetry up to the Twentieth Century.
- 160 Creative Writing (3 units)**
Intensive work in the writing of imaginative prose, with a detailed study of published models and with emphasis on the sources of creative effort.
- 181 Modern Drama (3 units)**
The modern European and American theater, from Ibsen to the present.
- 185 The English Renaissance (3 units)**
Nondramatic literature of the Tudor and Stuart periods.
- 190 The Nineteenth Century (3 units)**
British poetry and prose from 1760 to 1900, exclusive of the novel and the drama.
- 195 Chaucer and His Age (3 units)**
The life and thought of medieval England as seen through the eyes of a keen observer of human nature.

- 200 **Directed Study in English and American Literature (1-6 units)**
Limited to graduate students with the consent of the instructor. The course involves no class attendance but individual reports and conferences. May be taken for from one to three units a semester, and repeated for a total of six units.
- 206 **Shakespeare's Less Familiar Plays (3 units)**
 A study of the lesser known plays, with some consideration of textual problems.
- 209 **The Age of Enlightenment (3 units)**
 The major English writers of the Restoration and Eighteenth Century.
- 215 **Seminar in Research and Bibliography (3 units)**
 Limited to graduate students. Use of the library; the methods and forms of literary study; intensive review of the history of literature. The course involves the writing of brief historical, critical, and bibliographical essays. Recommended to all candidates for the master's degree and candidates for the secondary credential in English who expect to do further work in the field, but especially to those who plan ultimately to work for a Ph.D.

FRENCH

- 111-112 **Survey of French Literature (3-3 units)**
 From the Middle Ages to the present.

SPANISH

- 111-112 **Survey of Spanish American Literature (3-3 units)**
 Prerequisite: 16 units of lower division Spanish or equivalent.
 The literature of Spanish America from colonial times to the present.
- 123-124 **Nineteenth Century Spanish Literature (3-3 units)**
 Prerequisite: 16 units of lower division Spanish or equivalent.
 Lectures, readings and reports.

SPEECH

- 100 **Fundamentals of Speech (2 units)**
 Speech fundamentals as they apply to public address, drama, and interpretation. Major emphasis is given to the problems of oral delivery. Three class hours a week.
- 101 **Extempore Speaking (2 units)**
 Speech in informal business and professional situations, including an introduction to conference speaking. Principles of speech composition as applied in the speech to inform, the speech to persuade, and the speech to convince will receive major consideration. Three class hours a week.
- 105 **Speech Improvement for Teachers (2 units)**
 Study of speech problems confronting the classroom teacher. Designed to help the teacher to speak more effectively as well as to motivate oral activities in the classroom. Three class hours a week.
- 120 **Speech Activities for Secondary Schools (3 units)**
 Drama, radio, community, and debate activities appropriate to the needs and interests of high school students.
- 122 **Play Production (3 units)**
 Selecting, casting, directing, and staging the school play. Planned to meet the needs of teachers who may be working with limited facilities.

DIVISION OF NATURAL SCIENCE

The Division of Natural Science offers a program designed to meet the professional needs of prospective teachers and to give a general education to those whose principal interests lie in other fields. Courses are offered satisfying the general science requirements for elementary school credentials, while more extensive work in the division makes it possible for students to qualify for the following majors and minors: (1) teaching minor in natural science for the general elementary credential; (2) teaching major in life science and general science for the general secondary credential; (3) teaching minor in life science and general science for the general secondary credential; and (4) teaching minor in physical science and general science for the general secondary credential. Students not planning to enter the teaching profession are afforded the opportunity of acquainting themselves with a variety of areas of natural science.

A great deal of emphasis is placed on field work in most courses. Advantage is taken of the variety of seashore, mountain, coastal, and desert environments, while the rich man-made resources afforded by nearby parks, zoological gardens, museums, observatories, and libraries are fully exploited. The educational potentialities of the West's great system of state and national parks and monuments are made significant to those entering teaching and to those to whom understandings in science are largely of cultural value. Conservation responsibilities of citizenship receive careful attention.

A student wishing to graduate with a major or minor in any branch of science will be assigned to a faculty adviser who is responsible for outlining a program which will meet the student's needs and be acceptable to the department as meeting the requirements for a major or minor.

Requirements for a Major in Natural Science

At least 36 units and not more than 40 units.

LOWER DIVISION: Students in junior colleges should include in their program not more than 25 units of work in the fields of chemistry, physics, biology (botany, zoology) to acquire a broad general background for upper division work.

UPPER DIVISION: At least 15 units selected from the following: Zoo. 102, 140, 130, 110; Bio. 105, 145, 126; Ent. 103, 105; Zoo. 106; Bot. 108, 201, 126; Bio. 201.

Requirements for a Minor in Science

At least 20 units.

LOWER DIVISION: 6-18 units in the general areas of botany, zoology, biology (including human physiology).

UPPER DIVISION: At least 6 units selected from: Zoo. 102, 140, 130, 110; Bio. 105, 145, 126; Ent. 103, 105; Zoo. 106; Bot. 108, 105, 126; Bio. 201.

PROGRAMS FOR TEACHING CREDENTIALS

Major in Life Science and General Science (for Secondary Credential)

LOWER DIVISION: Not more than 25 units in the fields of chemistry, physics, biology (botany and zoology) to acquire a broad general background for upper division work.

UPPER DIVISION: At least 15 units selected from the following: Zoo. 102, 140, 130, 110; Bio. 105, 145, 126; Ent. 103, 105; Zoo. 106; Bot. 108, 105, 126; Bio. 201.

Minor in Life Science and General Science (for Secondary Credential)

LOWER DIVISION: 6-14 units in the general areas of botany, zoology, human physiology.

UPPER DIVISION: At least 6 units selected from the following: Zoo. 102, 140, 130, 110; Bio. 105, 145, 126; Ent. 103, 105; Zoo. 106; Bot. 108, 105, 126; Bio. 201.

Minor in Physical Science and General Science (for Secondary Credential)

LOWER DIVISION: 6-14 units.

UPPER DIVISION: At least 6 units selected from the following: Ast. 105, Geo. 100, 102, N. S. 103, Bio. 201.

Minor in Natural Science (for the General Elementary Credential)

Because of the emphasis on natural history in the elementary schools, courses should be selected in the areas of animal and plant studies, elementary geology and physiography.

BIOLOGY

100 Introduction to Biological Science (3 units)

A general survey of the contribution to everyday living and an understanding of the world of living things which can be contributed by the biological sciences. Such fundamental contributions as those made by biology in conservation, evolution, health, heredity, and an appreciation of nature are considered.

105 General Ecology (3 units)

A general course dealing with the relationships of living plants and animals to their environment, both physical and biotic, with emphasis upon the land forms, their distribution and inter-relationships. Visits to typical plant and animal communities of Southern California will be made.
(Lecture 2 hours, laboratory 2 hours and field trips arranged.)

126 Genetics (2 units)

An introduction to the principles of heredity with special reference to man and to man's improvement of animals and plants. Nontechnical in nature, this course is open to liberal arts students interested in the applications of the laws of inheritance.
(Lecture 2 hours.)

145 Marine Ecology (Life of the Seashore) (3 units)

A study of native marine forms of plants and animals of the nearby coastline with emphasis upon identification, adaptations to environment and distribution of common species. Frequent field trips for collection and study in the laboratory of specimens is a fundamental part of this nontechnical course intended for liberal arts and education students who desire a knowledge and appreciation of local forms.
(Lecture 2 hours, laboratory 2 hours and field trips arranged.)

280 Seminar in Biology (1 unit)

Meetings for the presentation and discussion of significant literature and of advanced studies in special fields, including original work by the faculty, visiting investigators, and graduate students.

GEOLOGY

100 Principles of Geology (3 units)

A general study of the materials of the earth's crust, their composition, origin, distribution, and their modification through mechanical and chemical processes of change. Theories concerning the origin of the earth and its geological history as traced through the fossil records are considered.
(Lecture 3 hours.)

102 General Physiography (3 units)

A study of the surface features of the earth and of the factors that develop and modify them. Includes consideration of the atmosphere and weather, the oceans, continents and islands, mountains and valleys, glaciers, lakes and streams, erosion, volcanic action, etc.
(Lecture 3 hours, field trips arranged.)

CONSERVATION

102 Conservation of Natural Resources (2 units)

Designed for teachers, commerce majors, and others interested in a consideration of the great natural resources of the country, their extent, value, wise utilization, and conservation for future generations.
(Lecture 2 hours.)

NATURE STUDY

101 Nature Study (3 units)

Introductory study of out-of-doors as it appears in autumn with emphasis upon ecology and identification of common marine and desert forms. A study of common plant and animal communities forms an integral part of the course. Some methods of teaching nature study are included.
(Lecture 2 hours, laboratory 2 hours, Saturday and afternoon field trips.)

102 Nature Study (3 units)

A nature study course emphasizing forms of life easily observed in the spring, such as flowers, reptiles, and amphibians, birds, etc. Some consideration is also given to stars, minerals and general physiography of the environment.
(Lecture 2 hours, laboratory 2 hours, Saturday and afternoon field trips.)

103 State and National Parks of the West (2 units)

The great public lands of the far West include areas renowned for their geological, physiographical, and biological attractions. This course is designed to provide a maximum of background to those who would hope to derive the greatest pleasure and profit from visits to parks of the shore, mountains and desert.
(Lecture 2 hours.)

151 Field Nature Study

An outdoor summer field course devoted to the study of nature material. For time and units to be given, consult special announcements and bulletins issued from time to time.

PHYSICAL SCIENCE

100 Introduction to Physical Science (3 units)

A general survey of the contributions to everyday living made by the Physical Sciences. Fundamental principles of chemistry, mechanics, meteorology, physics, geology and astronomy are explained in simple terms for citizens who do not expect to major in the sciences.

ZOOLOGY

- 102 Animal Life in California (3 units)**
A general course in identification and appreciation of the common animals of California for those who have little or no background in the field. Emphasis particularly upon marine forms, reptiles, amphibians and mammals.
(Lecture 3 hours.)
- 104 Bird Study (3 units)**
A general bird study course with emphasis upon the identification and habits of the common birds of California. The distribution, classification, migration, courtship, adaptations, coloration, economic value, and enjoyment of birds for those who have had little or no previous experience in the subject.
(Lecture 2 hours, laboratory 2 hours, field trips in early morning and on Saturday.)
- 106 Anatomy and Physiology (2 units)**
A brief survey of human anatomy and physiology designed to provide essential background for those entering the field of general science teaching and others who desire an elementary course in this field. Lectures, demonstrations and directed reading.
(Lecture, 2 hours.)
- 110 Amphibians and Reptiles (3 units)**
A course in herpetology to enable students to become acquainted with the abundant forms to be found in the mountains and deserts of California. The habits, life histories, conservation, ecology, economic importance, and recognition of common types are important aspects of the course.
(Lecture 2 hours, laboratory 2 hours, and field trips arranged.)
- 130 Mammals (3 units)**
A lecture and field course in the mammals with emphasis upon the local forms, intended for teachers, life science majors, and group leaders as well as those students who desire a better understanding of our wild life. Emphasis is placed upon recognition of common forms, their life histories and conservation.
(Lecture 2 hours, laboratory 2 hours, and field trips arranged.)
- 206 Field Studies in Zoology**
Directed individual work in selected fields of vertebrate zoology and animal ecology.
(Hour and units arranged.)

ENTOMOLOGY

- 103 General Entomology (3 units)**
An elementary study of insects, including characteristics, structure, habits, life cycles and importance to man. No prerequisites.
(Lecture 2 hours, laboratory 2 hours, and field trips arranged.)

ASTRONOMY

- 105 Astronomy (3 units)**
An elementary course in astronomy, nonmathematical, with particular emphasis on mythology, constellation study, and those aspects of the subject of particular interest to teachers of elementary and general science and to liberal arts students. Several field trips are scheduled for constellation study and for visits to observatories.
(Lecture 3 hours, field trips arranged.)

BOTANY

105 Economic Botany (2 units)

A survey of the beneficial and injurious relationships of plants to man. Such topics as plants as sources of food, drugs, fibers, building materials, etc., are considered. Economic implications, technologies, and conservation are stressed. (Lecture, 2 hours.)

108 California Trees and Shrubs (2 units)

A course offered, without prerequisites, to those who wish to become familiar with the identification and culture of the principal woody plants, both native and exotic, to be found in Southern California. Field trips to mountain and desert environments as well as to homes and public grounds will be scheduled. (Lecture 2 hours, field trips arranged.)

126 Plant Taxonomy (3 units)

Prerequisite: General Botany. A study of the principles of classification as applied to flowering plants, together with laboratory experience in the identification of significant plants native to California. The use of the several standard manuals to identification constitutes an important feature of the course. Some field work is required.

(Lecture 1 hour, laboratory 5 hours, and field trips arranged.)

208 Field Studies in Botany

Directed individual work in the field of plant taxonomy and plant ecology. (Hours and units arranged.)

INDUSTRIAL ARTS EDUCATION

The present purposes of the Industrial Arts program at Long Beach State College are two-fold: (1) Teacher Training leading to a Special Secondary Credential in Industrial Arts or a General Secondary Credential with a major in Industrial Arts, and (2) general shopwork contributing to the liberal arts program of the college.

109 General Shop (2 units)

General education course providing shop training on an individual project basis for nonindustrial arts students.

129 Experimental Shop (2 units)

Individual shopwork for students requiring shop facilities for making specialized equipment to be used in other college departments than the shop. Experimental approach will be emphasized.

AUTO AND INTERNAL COMBUSTION ENGINES

105 Elements of Automobiles and Transportation (3 units)

Repair and maintenance of automobiles with practice on laboratory equipment; principles of operation stressed.

125 Auto Mechanics (2 units)

Repair work, carburetion, ignition, and running system.

WOOD AND WOOD FINISHING

- 104 **Elements of Woodworking (3 units)**
Use and care of common bench woodworking tools. Fundamentals and correct construction methods on a benchwork basis.
- 124 **Furniture Making (2 units)**
Construction of various types of furniture including designing.
- 134 **Painting and Finishing (2 units)**
The use of finishing materials and paints on wood and metal.

PRINTING

- 108 **Elements of Printing (3 units)**
Essentials of printing and the graphic arts.
- 138 **General Print Shop (2 units)**
Composing-room operations; hand composition, machine composition, saw trimmers, and other production devices.
- 118 **Graphic Arts (2 units)**
Methods, processes, materials, and terminology of typesetting, presswork, and bookbinding.

METAL

- 107 **Elements of Metalworking (3 units)**
Metal processing and fabricating on a benchwork basis. Emphasis given to background and place of our metal technology in present-day society.
- 147 **Machine Shop Practice (2 units)**
The use and care of common machine tools.
- 137 **Gas and Electric Welding (2 units)**
Elementary and fundamental principles of oxy-acetylene and electric welding.
- 127 **Sheet Metal Practice (2 units)**
Sheet metal pattern drafting, layout and fabrication.
- 117 **Forging (2 units)**
Principles of forging, including study of alloys and heat treatment of metals.

ELECTRICITY AND RADIO

- 106 **Elements of Electricity and Radio (3 units)**
Basic circuits, including construction and repair of electrical projects.
- 146 **Electric Equipment and Repair (2 units)**
Direct and alternating current, with application to industrial electronics, motors, generators, and electrical apparatus, including their operation, testing, repair, and related projects.
- 156 **Radio Electronics (2 units)**
Fundamental properties of the vacuum tube and its associated circuits.

DRAFTING

- 103 **Elements of Drafting (3 units)**
Elementary lettering, orthographic and isometric projections, intersections, developments, simple machine drawings.
- 113 **Machine Drawing (2 units)**
Sketching and drawing of machine parts in detail and assembly. Use of standard tables and empirical formulae.
- 153 **Project Design (2 units)**
Design and drafting of school shop projects in detail and assembly.

COMBINED ART AND INDUSTRIAL ARTS

- 130 **Construction Techniques for the Elementary School Teacher (2 units)**
Creative experiences in using the common hand tool and construction materials suitable to contemporary trends in the elementary school teaching, especially designed for prospective and experienced elementary teachers.

PROFESSIONAL

- 170 **Methods in Teaching Industrial Arts (2 units)**
Specialized aims and teaching methods in industrial arts subjects.
- 180 **Curriculum Development in Industrial Arts (2 units)**
Organization and presentation of course material in shop field, with particular emphasis on selection and organization of curricular material.
- 181 **School Shop Revision and Planning (2 units)**
Laboratory approach to solving problems relating to school shop layouts. (Lecture and laboratory.)
- 190 **Problems in Teaching Industrial and Vocational Arts (2 units)**
Specific consideration given to the most pressing difficulties encountered by teachers of shop subjects. Correctional techniques emphasized.
- 191 **School Shop Project Development (3 units)**
Originating, designing and producing of school shop projects and instruction sheets. (Lecture and laboratory.)
- 210 **School Shop and Society (Seminar) (2 units)**
Relationship of recent trends in industrial education to the total school curriculum, with emphasis on public and inter-school relations to the immediate shop program.

DIVISION OF HEALTH, PHYSICAL EDUCATION AND RECREATION

PHYSICAL EDUCATION

The aim of physical education and recreation at Long Beach State College is to assist, direct, and train prospective teachers and leaders in physical education and recreation and to provide a physical education program which will contribute to the general education of all students.

Graduates from Long Beach State College may plan to enter vocational fields such as: elementary and high school teachers of physical education; directors of high school athletics; school supervisors of physical education and recreation; athletic coaches, community recreation and playground directors; leaders in youth organization.

Requirement for Physical Education Minor:

20 units. Required courses: Physical Education 105, 133, 175; Recreation 108.
Electives: (9-10 units) Physical Education 120, 125, 135, 150 and 155, 160 for men, 165 and 170 for women; Recreation 140, Health Education 124.

Requirements for Recreation Minor:

20 units. Required courses: Recreation 108, 110, 130, 175.
Electives: (9-10 units) Recreation 140, Physical Education 105, 120, 125, 133, 135, 150, Health Education 124.

105 Principles and Organization of Physical Education (3 units)

The philosophy of physical education and its relation to psychology, sociology, and education; problems in development of the physical education program; survey variations to meet the needs of students and community, selection of personnel, public relations.

120 Applied Anatomy (2 units)

Prerequisite: Anatomy and human physiology.
A study of muscular and joint action; relationship to specific physical education activities.

125 Physical Education in the Elementary Schools (2 units)

Practice in the skills used in an elementary physical education program, curriculum and methods of teaching; supervision of the playground. (Will not count toward minor if used for an elementary teaching credential.)

133 Physiology of Exercise (2 units)

Prerequisite: Human physiology or equivalent.
Physiological effects of muscular exercise, training and conditioning. The significance of these effects for health and for performance in activity programs.

135 Corrective Physical Education (2 units)

Prerequisite: Applied anatomy or physiology of exercise.
Basic problems and procedures for the teaching of the preventive and corrective phases of physical education.

150 Techniques for Teaching Rhythmic Activities (2 units)

Theory and practice of folk and social dancing.

- 155 (men) **Techniques of Teaching Individual Sports (2 units)**
Advanced practice, and methods of teaching individual sports.
- 160 (men) **Techniques of Teaching Team Sports (2 units)**
Advanced practice, and methods of teaching team sports.
- 165 (women) **Techniques of Teaching Individual Sports (2 units)**
Advanced practice, and methods of teaching individual sports.
- 170 (women) **Techniques of Teaching Team Sports (2 units)**
Advanced practice, and methods of teaching team sports.
- 175 **Curriculum and Methods in Physical Education (3 units)**
Prerequisite: Senior standing.
An advanced course dealing with physical education curriculum content and its sequence in the elementary and secondary schools.

RECREATION

- 108 **Community Recreation (3 units)**
Principles of community recreation; private and public organizations; coordination of all agencies in developing a program.
- 110 **Recreation Activities and Methods (3 units)**
Activities and games for social groups of various sizes, age levels, interests and abilities. Various methods used for planning program for these types of activities.
- 130 **Group Work in Recreation Agencies (2 units)**
The methods and techniques of group work as applied to leadership—public and private recreation agencies.
- 140 **School Camp Leadership (2 units)**
Prerequisite: Permission of instructor
Organization and administration of the school camp. Problems of the leader.
- 175 **Field Work in Recreation Agencies (3 units)**
Field work in recreation agencies. (60 hours required.) Supervised leadership in public or private agencies to be completed in not less than 6 weeks nor more than 18 weeks.

HEALTH EDUCATION

- 124 **Health Education (2 units)**
Elements of a health education program for the school; responsibility of the teacher; screening procedures; provision of a healthful environment in the school; community agencies.

DIVISION OF SOCIAL SCIENCE

General Objective: This division includes business and economics, history, political science, geography, and sociology. It provides an opportunity to understand the historical and geographic background for a proper evaluation of present world conditions; to understand modern economic, social, and political institutions; to secure pre-professional training in law and public work; and to obtain professional training in business and teaching.

Requirements for Major:

36 Units.

Major for Secondary Credential:

LOWER DIVISION: 12 units (including American History)

UPPER DIVISION: 24 units selected from at least three fields (geography, political science, economics, history, sociology, anthropology.)
It is recommended that 12 units be in one area and 6 units each in two other areas.

Requirements for Minor:

20 Units. 14 units may be lower division work; 6 units must be upper division. It is recommended that the student select courses from at least *two* areas of the social sciences in the total program.

BUSINESS

The business curriculum and degree requirements are intended to provide for all students not only a broad knowledge of the background and chief functions of modern business enterprise, but also elementary training in the use of accounting, statistics, and economic analysis. As many students are unable to decide upon a specific position or field for which they wish to train, and as others shift into positions different from the one trained for, it is highly important that all have basic fundamental training. With this foundation, students can readily build for specific needs.

Each student is expected to plan his major or minor sequence and electives with a faculty adviser.

Requirements for Business Administration Major:

30 to 36 Units.

LOWER DIVISION: Accounting, 6 units. (Also recommended, Economic Geography, Business Law.)

UPPER DIVISION: Business 101, 110, 118, 125, 151, 175, Economics 100.

101 Introduction to Business (3 units)

A general survey of the organization of business enterprises, marketing, finance, production, sources and handling of business information. Special reference to business.

103 Elements of Accounting, Fundamentals (3 units)

Introduction to accounting and to business administration. Theory of modern accounts; theory of debit and credit; classification of accounts; procedure for recording transactions; preparation of financial statements.

104 Elements of Accounting (3 units)

A continuation of accounting fundamentals, with emphasis on the accounting for partnerships and corporations.

- 105 Business Law (3 units)**
Elements of contracts used in business; fundamental factors governing negotiable instruments, and the laws dealing with agency.
- 106 Business Law (3 units)**
Fundamental laws of corporations, sales, sales contracts, and partnerships. Emphasis on California law in each area considered.
- 110 Business Statistics (3 units)**
Sources and graphical representation of statistical data. Study of the uses and limitations of statistical tools. Measures of central tendency and variation, index numbers, trends, cycles, correlation. Practical applications to problems in business.
- 118 Corporation Finance (3 units)**
An analysis of the financial policies of business with emphasis on business organization, types of securities, financial plans and promotion, expansion, consolidation, and bankruptcy and reorganization.
- 121 Principles of Insurance (3 units)**
Description of major types of insurance, life, property, casualty, etc.; interpretation of contracts under which such insurance is written; regulation and control of insurance companies. Includes general principles of mortality and premium calculation, distributive system of underwriting and organization of insurance carrier companies.
- 125 Marketing (3 units)**
A survey of the organization and operation of system for the distribution of goods and services. Topics covered include retail and wholesale distribution channels, consumer buying characteristics, pricing and marketing of industrial products, cooperative marketing of agricultural products.
- 127 Credits and Collections (3 units)**
Methods of evaluating the credit of individuals, partnerships, and corporations; protecting the rights and equities of debtors and creditors; debtor-creditor relationship; gathering credit information, analysis of statements for credit purposes, legal remedies and safeguards.
- 130 Intermediate Accounting (4 units)**
Problems and theories of evaluation and classification for financial statement purposes; interpretation and construction of accounts; analysis of financial statements.
- 131 Advanced Accounting (4 units)**
Specialized problems in partnership and corporation accounting; accounting for joint ventures, agencies and branches, consolidated balance sheets and profit and loss statements; statements of affairs, receiverships, estates and trusts, and realization and liquidation statements.
- 132 Cost Accounting (3 units)**
Theory of cost accounting including job order costs, process costs, estimating costs, and standard cost systems, as applied to the control and management of business through cost accounting procedures.
- 140 Traffic and Transportation (3 units)**
A general historical and current survey of transportation agencies in the United States; the functions of the different agencies; rate structures; problems of state and federal regulations and coordination of facilities. Also included are current transportation problems.

- 151 Personnel Management (3 units)**
The importance of employee-employer relationships, personnel policies, procedures, operations and training; techniques of personnel administration, interviewing and testing; wages and salary administration; recruitment, inductions, transfers, promotions and merit rating.
- 153 Investments (3 units)**
Principles underlying investment analysis and policy; chief characteristics of various types of investment securities; investment trusts and institutional investors; forms, problems and policies; relations of money markets and business cycles to investment practices.
- 155 Purchasing, Principles and Practices (3 units)**
A study of purchasing and procurement in industry and government. Purchasing policies and organization; coordination with production schedules and materials planning; optimum quantity and price; vendor relations; following up and expediting receiving and inspections, purchasing research.
- 160 Foreign Trade Principles and Practices (3 units)**
A study of basic principles of international trade and finance; analysis of character and importance to United States; theory of comparative costs; balances of trade and of international payments; tariffs; quotas, exchange, and other trade barriers; dumping and export subsidies.
- 163 Collective Bargaining (3 units)**
Fundamentals and problems of collective bargaining in American industry. Labor agreements, conciliation, mediation, and arbitration of labor disputes.
- 164 Income Tax (3 units)**
Historical background; study of current federal and state laws affecting individual, partnership, and corporation income tax returns; principles of income tax reporting.
- 171 Production Planning and Control (3 units)**
A study of the problems and fundamentals in managing manufacturing operations. Production planning and control—routing, scheduling, dispatching, and follow-up; materials planning and control; equipment control; quality control; production budgeting.
- 175 Business Management (3 units)**
A study of company policies as a tool for coordinating selling, purchasing, financing, and personnel work; methods of formulating policy; and executive attitudes and devices for personal leadership of associates and subordinates.
- 200 Individual Study (credit arranged)**
- 230 Seminar in the History and Theory of Accounting (credit arranged)**
- 253 Seminar in Human Relations (credit arranged)**
- 275 Seminar in Business Problems and Policies (credit arranged)**

ECONOMICS

The purpose of economics is to give the student an understanding of the development, functioning and significance of the economic institutions which are part of the American way of life. The courses offered are intended to give the student functional training in the field of economics and to supplement the training in business and education.

Requirements for a Major:

36-40 Units in Economics. Recommended lower division, a minimum of 12 units, preferably including principles of economics and elements of accounting. For majors lacking these units, proper upper division work will be chosen. Upper division requirements, a minimum of 24 units, including Economics 112, 130, 141 and Business 110. The remainder of the upper division work to be chosen by the student in consultation with an adviser in economics so as to choose those courses best suited to fill the needs of the individual student.

Requirements for a Minor:

20 Units in Economics. 6-9 units of lower division, preferably including fundamentals of economics and elements of accounting. 11-14 units of upper division, to be chosen by the student in consultation with an adviser to suit the needs of the individual student.

100 Fundamentals of Economics (3 units)

This is a basic course in economics, covering the determination of value, price, production and distribution; the fundamentals of money, banking, and foreign trade, stressing the application of these principles to modern economic policy.

107 Economic History of the United States (3 units)

The history of the economic development of the United States. A study of the forces leading to the development of agriculture, industry, commerce, finance, transportation, the rise of the living standards, unrest and utopias in periods of stagnation and the economic basis of cultural progress.

112 Applied Economic Analysis (3 units)

An intensive analysis of economic concepts and their applications to business situations. The emphasis is placed upon internal problems in the short-run, such as cost, price, risk, output and supply and demand analysis. Prerequisites: Principles of economics or its equivalent.

120 Industrial Organization and Public Policy (3 units)

A study of basic American policy of maintaining competition to control economic behavior, with some consideration of alternative policies. Case studies of specific firms and industries are emphasized.

126 Consumer Economics (3 units)

The study of the guidance and control of consumer choice. Theory of consumption and consumer demand. Survey of efforts to improve the position of the consumer.

130 Money and Banking (3 units)

A study of the nature and functions of money and its relation to prices; the monetary system of the United States; the functions of banks, bank credit, foreign exchange and monetary control.

135 Modern Economic Problems and Public Policy (3 units)

A study of the problems facing the formulators of public policy in connection with land utilization, national welfare, the capitalistic system, and world economic reorganization.

141 Business Cycles (3 units)

The business cycle, its characteristics and economic consequences; forecasting general business conditions; proposals for modifying the business cycle. Prerequisites: Principles of economics or its equivalent.

151 Public Finance and Taxation (3 units)

A study of the sources of revenue and types of expenditures of our federal, state and local governments. Emphasis is placed on government taxing and

spending policies and their effect upon production and employment, the price level and the distribution of income.

165 Labor Economics (3 units)

A study of the more important problems which are common to all labor, whether organized or unorganized; wages, hours, working conditions, employment and unemployment. An analysis is made of the significance of unionization on the labor market.

190 Government and the American Economy (3 units)

An analysis of the relationships between business and government. The Government, as a sponsor and regulator of economic activity, is studied in relation to the problems of the major phases of American economic life.

191 Trade Regulation (3 units)

The role and development of the public law in the control of trade in the public interest. Emphasis is placed upon the fair trade legislation, patents, trade-marks, copyrights, pure food and drug legislation.

199 Directed Studies (1-3 units)

Other courses which may be substituted as electives, with the approval of the student's adviser, include Business 101, 118, 151, 160, 175; Geography 107, 106, and Psychology 135.

265 Industrial Relations and Personnel Administration (4 units)

This course emphasizes the development of sound human relationships in an effort to find solutions for modern industrial problems. The principles developed are useful to the administrator, whether in business or government.

270 Government Regulation of Business (4 units)

An examination of the politics, the administration, and the law of business regulation through administrative agencies. Characteristics and problems of regulatory commissions; practice and procedure in administrative rule making and adjudication; judicial review of the administrative process.

275 Industrial Organization and Public Policy (4 units)

A study of the legal, political and economic forces influencing the form of competition, the location and organization of industries and the basic American policy for their control.

299 Problems in Economic Theory (4 units)

GEOGRAPHY

The major aims of the geography curricula are: the preparation of elementary, junior high, and senior high school social studies teachers; offering courses to supplement the training of students preparing for business; and the provision of courses and consultative assistance for students majoring in the social sciences and in geography.

An understanding of geography helps the student become aware of his place and responsibility as a citizen of a democracy, and as a member of the world community. In addition, it helps the prospective business man and teacher to gain an appreciation of the economic and social processes and of the development of the differentiated patterns of culture as they evolve in the varied natural settings of the earth.

Students planning to do major or minor work in geography must consult with their adviser concerning their program of studies. It is to the student's advantage to begin planning his program of studies during his first semester at Long Beach State College.

Requirements for a Major:

30-36 Units. Minimum of 6 lower division units, including fundamentals of geography. For majors lacking these units, proper upper division work will be chosen.

For students specializing in geography, study extends across departmental and divisional boundaries into physical and biological sciences and other sections of the social sciences. The student should arrange, with the consent of his adviser, to select courses to meet his needs from such other subjects.

Requirements for a Minor:

20 Units. Minimum of 6 lower division units, including fundamentals of geography. For minors lacking these units, proper upper division work will be chosen.

100 Human Geography (Lecture and Laboratory) (3 units)

The study of geography centers upon human society in relation to the earth's resources. This course examines natural conditions and resources in the major areas of the world. It aims to build an appreciation of the types of civilization which have developed in different environments and of the ways in which the natural balance can be disturbed through the productive and exploitive activities of mankind. Recommended for prospective elementary and secondary teachers who have had no previous college work in geography.

106 Industrial Geography (3 units)

The characteristics and distribution of man's economic pursuits, their relation to natural conditions and resources, and their significance in the economies of the major regions of the world. Especially recommended for business and economic majors. (Not open to students who have had lower division work in this subject.)

107 Regional Economic Geography (3 units)

The regional distribution of the world's resources, industries, and population. An analysis of the productive industries and commerce in relation to the geographic environment and the cultural level of the people. Recommended for business, economic and geography majors.

111 Geography of North America (3 units)

The common social, economic, and political interests of the major human use regions of the United States and Canada. The study describes and interprets the culture patterns of each region in relation to the natural settings in which they have developed.

136 Geography of Europe (3 units)

An analysis of European industrial and cultural development revealed through a regional study. Present-day conditions and problems of the European nations, as related to the physical conditions, are studied. Especially recommended for social science, history, and geography majors.

148 Geography of California (3 units)

The physical, economic, and cultural patterns within each region of California. Emphasis upon conservation and utilization of natural resources. Field trips planned. Recommended for elementary education, social science, history and geography majors.

171 Geography of Asia (3 units)

The human and economic resources and problems of Asiatic nations are examined. Traditional land use, real and potential industrial development, political problems, and the relation of these areas to current world affairs, are studied. Recommended for social science, history and geography majors.

181 Geography of Latin America (3 units)

Selected regions of Latin America with emphasis upon sources of raw materials, present problems, and industrial outlook. Recommended for social science, history, and geography majors.

189 Independent Study in Geography (3 units)

Readings in the literature of geography, to be done without detailed supervision. Consent of instructor required. Designed especially for geography majors.

200 Regional Geography (3 units)

The purpose of this course is to acquaint secondary school teachers with regional methods of study common to geographic research, and to utilize such techniques in developing regional concepts. An examination of research work done in various regions of the United States, and student preparation of an areal study comprise the basic course work.

210 Field Course in the Geography of the Local Area (3 units)

A course of training in geographic field methods directed to the solution of real problems in the local area. Especially designed to acquaint teachers with the value of first-hand observation and interpretation in understanding the geography of any area.

HISTORY

The study of history is intended to serve as a cultural background, as a preparation for graduate work in history and the other social sciences, or as a foundation for those planning to enter teaching, law, librarianship, government, foreign service, and related fields.

Requirements for a Major:

36 Units

LOWER DIVISION: A minimum of 12 units, including U. S. History and one other area.

UPPER DIVISION: 24 units, with the selection of at least one course in each of following three areas:

- (1) European (Ancient, Medieval, or Modern);
- (2) American (Latin American or period course in U. S. History);
- (3) Far East (International Relations, Pacific Ocean Area, Far East or Russia).

The remaining 15 units will be selected by the student in consultation with his adviser.

Requirements for a Minor:

LOWER DIVISION: 12 units.

UPPER DIVISION: 8 units.

American History and one other area should be represented in the courses which the student will select in consultation with his adviser.

100 America's European Heritage (3 units)

To acquaint students with the European background of American civilization, a survey is made of Western Asia, Northern Africa, and Europe from their early development to the seventeenth century. Political narrative is subordinated to cultural, economic and social developments.

- 101 America in World History (3 units)**
This is a broad survey course beginning with colonial developments in the New World and ending with the present. It is designed to combine a rapid sketch of the history of the United States with the development of modern civilization.
- 103 Modern Europe to 1815 (3 units)**
A history of the breakdown of Medieval Christendom and of the rise of Modern Europe. The civilization of the Italian city states; the Reformation; the rise of national monarchies, and the French Revolution.
- 105 Europe 1815-1914 (3 units)**
From the Congress of Vienna to World War I, with emphasis on the passing of the aristocratic system, the fusion of industrialism and nationalism, and the challenge of socialism.
- 107 The United States, the Colonial Period (3 units)**
The political, economic, social, and intellectual history of the period through the establishment of a new and independent government.
- 109 The United States, the National Period 1789-1877 (3 units)**
The problems of the early national government; Jeffersonian Democracy; the beginning of American isolation after 1815; the Jacksonian Period; the westward movement; sectional conflict; reconstruction.
- 111 England to 1688 (3 units)**
After a brief survey of British civilization before the conquest, the course is devoted to the political and social elements in England up to the reign of William and Mary, with an emphasis upon the rise of parliamentary government.
- 112 England Since 1688 (3 units)**
The Hanoverians; the assumption by Parliament of a dominant position in political affairs; the Industrial Revolution; political liberalism in England; England in the 20th Century.
- 125 Grecian and Roman Civilization (3 units)**
A study of the predominant characteristics of these civilizations, and their contributions of the history of thought and action in the Western World.
- 126 Medieval Civilization (3 units)**
Beginning with the founding of Constantinople in 330, this course deals with the development of distinctive secular and ecclesiastical institutions in both Europe and Byzantium. Emphasis is placed on the significant personalities of the period and on the development of ideas.
- 130 The United States, the Emergence of Modern America, 1877-1919 (3 units)**
The transformation of America by the second Industrial Revolution; the rise of the city; the progressive movement; resulting conflicts between reform movements and privileged groups; the United States in world affairs through World War I.
- 131 The United States, Recent, 1919-Present (3 units)**
The prosperity of the twenties, the depression and the beginnings of welfare democracy; the United States in World War II; postwar problems with an emphasis upon the role of the United States in world affairs.

- 140 **Europe Since 1914 (3 units)**
 World War I; outstanding changes in Europe after the first World War, with particular stress on the rise of Fascism in Italy, Naziism in Germany, Communism in Russia, and Social Democracy in Scandinavia and Great Britain; World War II; postwar problems.
- 150 **History of the West (3 units)**
 The American frontier with an analysis of its problems, development, and influences.
- 155 **Diplomatic History of the United States (3 units)**
 American foreign relations since 1776, with particular attention to the increasingly important role of the United States in world affairs.
- 160 **Latin America to 1824 (3 units)**
 Spanish and Portuguese backgrounds, explorations, and conquests; colonial policy and institutional development; movements for independence.
- 161 **Latin America Since 1824 (3 units)**
 The Latin American states and their social, economic, and political development; special emphasis upon Argentina, Brazil, Chile, and Mexico.
- 170 **History of the Pacific (3 units)**
 The activities of the European peoples and of the United States in the Pacific Ocean and adjacent areas. A study of the struggle for political, cultural, and economic leadership in the past and an analysis of the problems of the area. This course does not deal with California.
- 179 **History of California (3 units)**
 The economic, social, and political development of California from its discovery and occupation by the Spanish to the present time, with special emphasis upon the American period.
- 200 **Special Studies (2-4 units)**
 Individual work with conferences adjusted to the needs of the student. Students registering in this course must obtain departmental approval.
- 201 **History and the Historical Method (2 units)**
 A course designed with the end in view of training future teachers to examine critically the facts about the past as reflected in the writings and methods used by historians.
- 205 **The South, A Sectional Study (3 units)**
 A course designed to explore thoroughly certain major developments and influences of the South, such as agricultural problems in the old and new South, labor problems as related to the economic system prior to and after the Civil War, problems relating to the intellectual climate developed by the various conditions peculiar to this area, the politics of the agrarian South, and the influences of southern thought on national planning.
- 209 **Seminar in Twentieth Century, U. S. A. (3 units)**
 Studies in the seminar will center around the problems of modern America with reference to the special interests of the students in either domestic or international affairs since World War I.

POLITICAL SCIENCE

The program for students majoring in political science is designed to develop an understanding of political institutions and ideas and the part they play in modern society. They also constitute a foundation for preparation for careers in government and politics.

Requirements for a Major:

36-40 units in political science and closely related work chosen from the fields of economics, geography, history and sociology.

UPPER DIVISION:

18 units in political science.

6 units in closely related fields but **OUTSIDE** the field of student's minor.

Recommended courses: 136, 137, 160, 161; 120, 121, or 117, 118. Econ. 170, 171.

Requirements for a Minor:

20 units of which 12 must be upper division.

Recommended courses: 136, 137, 160, 161.

Teaching Major in Social Sciences

Courses recommended: 136, 137.

101 American Political Institutions (2 units)

The Constitution and Government of the United States (satisfies Constitution requirement for credentials and degrees.)

107 American Political Thought (3 units)

The development in America of ideas on government.

108 State Government and Administration (3 units)

A study of the political structure and its operation, state-federal relations, state-local relations; particular emphasis on California.

117 International Relations (3 units)

The interaction of "great powers;" the influence of balance of power, imperialism, prestige, and the preservation of the *status quo* in the international sphere.

118 International Organization (3 units)

The rise and present status of the machinery for international cooperation, with particular reference to the United Nations and affiliated organizations.

120 The Government of the British Commonwealth (3 units)

A study of the parliamentary system of government as it operates in England and the Dominions. Comparisons with the American system.

121 Soviet Ideology and Institutions (3 units)

A study of the government of the Soviet Union and the ideological background. Dictatorial practice contrasted with democratic practice.

136, 137 American Constitutional Development (3-3 units)

An intensive study of the work of the Convention of 1787 and the evolution of the American constitutional system based on a critical examination of U. S. Supreme Court cases. Particular attention is given to the commerce clause, the due process clause, civil rights, federal-state relations, control of foreign relations. (3-3) year course. Each semester's work may be taken independently. Either 136 or 137 satisfies the state requirement in A.P.I.

160-161 Growth and Development of Political Thought (3-3 units)

A study of the more important writers from Plato to the present. Emphasis on the relation of their writings to contemporary social issues and the development of democratic institutions.

170 Government and the American Economy (3 units)

An analysis of the relationships between business and government. The Government, as a sponsor and regulator of economic activity, is studied in relation to the problems of the major phases of American economic life.

171 Trade Regulation (3 units)

The role of the regulatory commissions and the development of the public law in the control of trade in the public interest. Emphasis is placed upon the fair trade legislation, patents, trade-marks, copy-rights, pure food and drug legislation; special attention is given to the role and discretion of judges and administrators in the development of public policy.

SOCIOLOGY

The courses are designed for those who wish a knowledge of the scope and methods of sociology, either for general cultural background or as an integral part of professional training. Particular attention is given to the needs and problems of teachers. Professional training for social work should be secured in graduate schools, but should be built upon a foundation of courses in sociology.

Junior college students who are planning to pursue more advanced work in sociology upon entering Long Beach State College are advised to complete six units of sociology. General psychology and cultural anthropology will also be found valuable. Students who enroll in upper division work without any sociology are advised to complete course 100 before undertaking more advanced courses.

Requirements for a Major:

36 to 40 units, not more than 12 of which should be lower division. From 6 to 12 units in related upper division courses in social science will be accepted in partial fulfillment of the requirement for the sociology major. Such courses should be selected in consultation with a faculty adviser in the department. Major students are advised to include courses 105, 115, and 201 or their equivalents, in programs.

Requirements for a Minor:

20 units, of which 11 or 12 should be upper division.
Recommended courses: 105, 115.

100 Principles of Sociology (3 units)

A basic course in sociology for students who have not completed an introductory lower division course. Consideration of man, society and culture; personality development and disorganization; collective behavior; social institutions; and social change.

102 Social Trends and Problems (3 units)

Concepts of social change, lag, trends, and disorganization; population growth and mobility; minority groups; rural-urban relationships; communication agencies and problems; public health; social stratification; and war. This course is *especially recommended for teachers* who want a general survey of problems.

105 Western Social Institution (3 units)

Basic sociological concepts; western institutional and value structure; studies in the development of western economy, political organization, religion, family and education.

- 107 Urban Society (2 units)**
Growth of urban areas; urban and regional ecology; institutional and group patterns; physical problems of urban life; social interaction in urban environments; personality in the city.
- 108 Rural Society (2 units)**
Structure of rural society; agriculture as an enterprise; social interaction in rural environments; population mobility; villages and neighborhoods; and institutional changes, with particular relation to educational problems.
- 110 The Family (2 units)**
The family as a social institution; family in various cultures; the American family; relationships in family life; family and social change; disorganization and reorganization.
- 115 Social Psychology (3 units)**
The dynamics of group and cultural behavior; processes of socialization; personality development and adjustment; and social interaction. Particular attention to collective behavior and public opinion.
- 120 Crime and Delinquency (3 units)**
Incidence and characteristics of criminal behavior and juvenile delinquency in the United States; law enforcement; and the treatment of criminals.
- 160 Population and Race Relations (3 units)**
Growth and distribution of population; migration of peoples; American immigration and emigration; population analysis; minority groups, especially the Negro; and population policy.
- 165 Social Legislation (3 units)**
Legislation as a form of social adjustment; American legislation and judicial opinion in such areas as family law, dependency, child welfare, and social insurance.
- 170 Industrial Sociology (2 units)**
Modern industrial society; industrial organization; group structure and behavior in factory, office, and store; worker and the machine; social classes and the industrial order; industrial conflict.
- 180 The Field of Social Work (3 units)**
The history, philosophy, and underlying principles of modern social work; major types of social work; public and private agencies; community organization.
- 200 Directed Study (2-3 units)**
Designed to meet the individual needs of senior and graduate students majoring or minoring in the department. Directed reading and reports in selected fields.
- 201 Development of Social Thought (3 units)**
Culture patterns and social thought; historical periods and social thought; representative thinkers before sociology; representative sociological thinkers; relation to educational and political theories.
- 205 Social Classes (3 units)**
Social differentiation on basis of class or caste. Origin and inter-relationships of classes. Studies in social stratification. Class struggle.

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