Degrees

The Bachelor of Arts and the Bachelor of Science degree programs are constructed of three interrelated areas: the breadth component, called the General Education Program, which provides the basis for the baccalaureate degree because it offers training in general skills, methodologies, and habits of thought; the depth component, or major, which establishes an understanding of the breadth of a body of knowledge, competence in the fundamental skills and methodologies of the discipline and understanding and skill at an appropriate depth in one or more facets of the discipline; and the elective component that provides the possibility for personal enhancement and development that can complement the rest of the degree program.

California State University, Long Beach offers the following Baccalaureate Degree Programs:

Bachelor of Arts Degree in:
- American Studies
- Anthropology
- Art
- Asian Studies
- Biology
- Black Studies
- Chemistry
- Chicano and Latino Studies
- Communicative Disorders
- Comparative Literature
- Dance
- Economics
- English
- French
- Geography
- German
- History
- Home Economics
- Human Development
- Industrial Arts
- Interdisciplinary Studies
- International Studies
- Japanese
- Journalism
- Liberal Studies
- Music
- Philosophy
- Physical Education
- Physics
- Political Science
- Psychology
- Radio-Television
- Recreation
- Religious Studies

Bachelor of Science Degree in:
- Biochemistry
- Biology
- Business Administration
- Chemical Engineering
- Chemistry
- Computer Science
- Civil Engineering
- Dietetics and Food Administration
- Criminal Justice
- Earth Science
- Electrical Engineering
- Engineering
- Engineering Technology
- Geology
- Health Care Administration
- Health Science
- Industrial Design
- Marine Biology
- Mathematics
- Mechanical Engineering
- Microbiology
- Nursing
- Physical Therapy
- Physics
- Vocational Education

Bachelor of Vocational Education Degree
Refer to specific departments in the courses of study section for detailed descriptions of each program.

Double Major

You may complete two baccalaureate programs concurrently; however, for both to appear on the diploma, both programs must be under the same degree designation, i.e., Bachelor of Arts or Bachelor of Science. Only one degree will be conferred and only one diploma issued. The fact that the requirements of another program have been completed will be noted on the transcript.

Additional Baccalaureate Degree

A graduated student who wishes to pursue an additional baccalaureate degree and maintain undergraduate status may do so by completing a minimum of 30 units after...
graduation, of which 24 units must be upper division courses and 12 units must be in the major.

A second semester senior, with advance approval of the Academic Appeals Committee, may earn a maximum of six units toward the additional degree while in residence for the first degree. Any courses to be applied to the additional degree must be specified and taken in addition to those needed to satisfy the requirements of the first degree.

Students applying for and accepted to a second baccalaureate degree program who have received their first baccalaureate degree or equivalent from an institution outside of the U.S. will be required to complete any deficiencies in the General Education pattern and will be evaluated for General Education on the same basis as undergraduates.

Certificate Programs

California State University, Long Beach offers 51 academic programs leading to the award of a Certificate. Certificate programs normally require completion of 24 to 27 units of course work. Certificate programs differ from baccalaureate minors and degree programs in the special overall emphasis given in them to practical and applied uses of knowledge in a specific area of human enterprise. Certificates may be earned only concurrently or following award of the baccalaureate degree. Courses taken to fulfill the requirements for the baccalaureate degree may also be applied to Certificate requirements; only fifteen units may be so applied from graduate degree programs.

If you wish to pursue a Certificate program you should review the course requirements given in the departmental course listing of this catalog. You are to notify the relevant department of your intention to pursue the course of study as soon as possible so as to receive early advisement on the program.

Certificates

Administration of Outdoor Recreational Resources
Administration of Volunteer Services
Administration of Travel and Tourism
American Indian Studies
Asian American Studies
Asian Studies
Automotive Supervision
Biomedical Art
Black Studies
Cartography
Child Development
Community Physical Fitness
Computer Studies in the Liberal Arts
Corrective Therapy
Energy Conversion and Power Systems Engineering
Environmental Studies
Facilities Operations
Foodservice Systems Administration
Gerontology
Graphic Arts Supervision
Health Care Administration
Honor English
Industrial Plastics Processing and Design
International Business
Japanese
Language Development Specialist
Latin American Studies
Legal Studies in the Liberal Arts
Medieval and Renaissance Studies
Music Therapy
Nursing Practitioner
Pre-Athletic Training
Quantitative Methods
Safety Operations
Teaching English as a Second Language
Technical and Professional Writing
Therapeutic Recreation
Urban and Regional Studies
Waste Engineering and Management
Wilderness Studies

Minors

A minor consists of a minimum of 18 units at least nine of which must be upper division. No courses in the major department may be counted toward the minor. Courses outside the major department may count both toward the minor and toward requirements for the major. You should refer to the requirements of the department and College of your major to see whether a minor is required with that major. Even if a minor is not required, you may elect to complete requirements for one or more minors from those available and have that noted on your transcript.

Credentialed Programs for Public School Service

Candidates for public school service credentials at the University are advised to familiarize themselves with the requirements for these programs. Descriptions of credential programs appear in a separate section of this Bulletin. Specific information and applications to individual programs are available in program offices of the Graduate School of Education and departmental offices through which they are offered. Application for student teaching and for field work in credential programs must be filed by October 1 for spring semester and March 1 for summer session and fall semester.

REQUIREMENTS FOR THE BACCAEAUREATE DEGREE

General

— File a Request to Graduate form with Admissions and Records within stated deadlines prior to the semester of graduation. Include a completed and approved Program Planning Guide.

— Complete of an appropriate number and distribution of units for the degree.

— Complete of 20 units in residence at CSULB of which 24 must be upper division, and 12 in the major.

— Meet minimal scholarship requirements including an overall grade point average of 2.0.

— Writing skills evaluations: EPT and WPE. Mathematical skills evaluation: ELM.

— Completion of University 100, The University and Your Future.
Complete of the General Education program including requirements in United States History, Constitution and American Ideals and English Composition.

Complete of requirements for major (refer to specific departments).

Formal approval by the faculty of the University.

Submit all required documentation prior to July 1 for May graduation, October 1 for August graduation, and February 1 for December graduation.

Changes in degree/major sought, or in anticipated graduate date, are subject to a re-filing fee. Changes are not automatically accommodated.

All incomplete grades must be resolved before students will be cleared for graduation.

These requirements and related information are described below:

Units
A minimum total of 124 units is required for the Bachelor of Arts and the Bachelor of Vocational Education degrees. Each must include a minimum of 40 units of upper division work (courses numbered 300 to 499).

The Bachelor of Science degree, which requires from 124 to 132 units (135 to 140 for engineering programs), is designed for curricula where a more intensive major field of study is considered a requisite background for professional competence. The total number of units and individual subjects required to satisfy specific majors are described in the departmental sections of this Bulletin. In every instance, a minimum of 40 units of upper division work (courses numbered 300 to 499) must be included.

Ten-Year Rule
To assure that a student's preparation in the major is coherent and current, effective 1996 all upper division courses required for a major must be completed within the ten-year period preceding award of the baccalaureate degree. Courses completed prior to this ten-year period can be revalidated by such demonstrations of competence or knowledge of the subject as may be prescribed by the department offering the course.

Residence
A residence requirement states that a certain number of units must be taken on the campus from which the student expects to receive a degree. To fulfill the residence requirement at CSULB, you must earn a minimum of 30 semester units at CSULB. Twenty-four of these units shall be earned in upper division courses and 12 of the units shall be in the major.

Units earned in Extended Education cannot be counted toward fulfillment of the residence requirement.

Scholarship
In order to qualify for graduation with a bachelor's degree from California State University, Long Beach, a student must demonstrate a 2.0 (C) grade point average in all of the below:

1. The entire college record;
2. All units attempted at CSULB;
3. All courses in the major;
4. All courses in the major completed at CSULB;
5. All upper division courses in the major completed at CSULB.

The overall grade point average required for admission to the graduate programs varies every two years, and is by major area of study and by institution where the degree was received. See the Teacher Education or Single Subject Teacher Education Office.

Faculty Approval
Proficiency of a student in any and all parts of a curriculum is properly ascertained by the faculty of the University. A favorable vote of the faculty is required for a student to be eligible to receive a degree. Faculty members must be cleared by the student prior to the deadline to submit all required documents.

WRITING SKILLS EVALUATIONS

English Placement Test (EPT)
So that information will be available to help in the selection of appropriate courses work in writing skills and to prepare for meeting the upper division requirements, all undergraduate students who will graduate from a CSU campus under the degree requirements of 1978-79 or a subsequent Bulletin are required to take the English Placement Test (EPT), unless they have scored well on other specified tests or completed appropriate college courses.

You must take the test at the first possible administration available after admission. EPT registration does not require a fee. Failure to take the English Placement Test during the first semester of attendance will result in loss of future registration privileges. It may also lead to administrative probation and possible disqualification from future attendance (Section 41000.1 of Title 5, California Administrative Code and CSU Executive Order 108). The results of the EPT will not affect admission eligibility. Information regarding the EPT can be obtained from the Department of English, McNichols Humanities Office Building, Room 419 or the Office of Testing and Evaluation Services BSA/AC 216, (310) 585-4000.

Writing Proficiency Examination (WPE)
All candidates for degrees and certificates must demonstrate competency in writing skills as a requirement for graduation. Every student under the 1977-78 or subsequent Bulletin must pass the Writing Proficiency Examination (WPE) to be certified proficient in written composition in English. Students under bulletin regulations earlier than 1977-78 are exempt from this requirement if they have maintained continuous attendance. The Writing Proficiency Examination is a junior year requirement. The test must be taken by the end of the semester in which you earn 75 or more units. You must attempt both parts of the exam before you will be allowed to register for your senior year classes. A request for deferment, for compelling reasons, can be filed at Testing and Evaluation Services. You must take the WPE prior to filing your Request to Graduate. The responsibility for acquiring the skills necessary to pass the examination is yours. Regular courses in writing are available in the University or through Extended Education. (Please see Supplemental Instruction, below.) Counseling and other assistance are available through the Learning Assistance Center, LIB E-112, and Academic Advisors in your department.
major department. The examination may be taken as many times as necessary. Information regarding the administration of this examination may be obtained from the Office of Testing and Evaluation Services (SSAQ 216). To cover the costs of administration and scoring, a fee will be charged each time you take the examination.

Supplemental Information

The University offers supplemental instruction for students who have experienced difficulty with the Writing Proficiency Examination or with certain courses which require intensive writing as a part of the course requirements. Students should contact the Learning Assistance Center for permission to enroll in any of these classes.

SI 050A-E. Preparation for the WPE (1) F, S

Non-elective mid-level course designed to prepare students for the Writing Proficiency Examination (WPE). SI 050A is open to students who have not yet attempted the WPE. SI 050B, C, D, and E are designed for students who have failed the WPE. Students will be assigned to two hours a week in the course appropriate to their performance level. Credit/No Credit grading only. Each course is repeatable until the WPE is successfully passed. (Activity)

Educational Opportunity Program (EOP)

The Educational Opportunity Program identifies potential candidates, guides them through the admissions and financial aid process, and provides academic and personal support. EOP provides orientation, academic and personal achievement, and study skills instruction to all students admitted into the program to ensure the maximum opportunity for success in the University.

All EOP participants are expected to enroll in EOP 100 during their first semester of enrollment.

EOP 100, EOP Orientation (2) F, S

An introduction to college life for students from backgrounds traditionally underrepresented within higher education. A review of campus and community resources available to support students participating in the Educational Opportunity Program. Instruction in various academic survival skills that are necessary for college success. Areas of review include: time management, research methodology and term paper development, test-taking strategies, and decision-making. Traditional grading only.

Entry-Level Mathematics (ELM) Examination

All undergraduate students admitted to CSU in the Fall 1993 and after must take the Entry Level Mathematics (ELM) test for placement in appropriate courses, unless they are otherwise exempt. First-time freshmen may qualify for an exemption on the basis of satisfactory performance on specified examinations (see p. 34). Transfer students may be granted an exemption based upon satisfactory examination scores (see p. 34) or by successful completion (with a grade of “C” or above) of a mathematics course that satisfies the General Education quantitative reasoning requirement.

Students who are not exempt must take this test during their first year of enrollment. The results of this test do not affect admission eligibility. Failure to comply with this requirement will result in a loss of future registration privileges and may lead to administrative probation and possible disqualification from future attendance (Section 41300.1 of Title 5, California Administrative Code, and CSU Executive Order 369).

Information bulletins and registration materials for the ELM Test will be mailed to all who are subject to the requirement, or they may be obtained from the Office of Admis-

General Education

General Education is an important aspect of the baccalaureate degree and of your personal development. It is that part of your university program which encourages you to develop or improve such basic life skills as creativity, critical thinking, self-motivation, independence, an understanding of values, and a general philosophy by which to make decisions throughout life. Possession of these skills makes possible your continued personal growth and the further development of your creative and adaptive capabilities qualities necessary for you to adjust to and influence a rapidly changing world. It is the basis for lifelong learning, and it can increase your ability to be self-directing.

At California State University, Long Beach, courses approved for General Education credit provide:

- Information: the raw material for thinking, analysis, reflection, and discourse;
- Methods of inquiry: direction and practice in methodologies of the several disciplines;
- Basic Skills: the ability to analyze ideas and data, to relate these to other materials, to develop arguments both logical and cogent, to reach conclusions, and to

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present the results of these processes with clarity and

- Quality of Mind: a respect for data and unpleasant
tests; an appreciation of the arts; tolerance, commit-
ment, a taste for learning; creativity, perpetual curiosity,
and a sensitivity to ethical considerations.

The present policy of the Board of Trustees of The Califor-
nia State University is that students graduating from a CSU
campus must fulfill certain breadth requirements (Section
4042s, Title 5, California Administrative Code). Of these, a
minimum of 9 semester units must be upper division cour-
sees taken at the campus conferring the degree. Partial
credit may be transferred from another institution; a par-
ticipating, regionally-accredited institution may certify com-
pletion of 39 semester units.

Each campus in the CSU system may define which of its
courses satisfy its General Education Requirements and
determine which courses are transferable from other institu-
tions (except where a maximum of 39 units are certified).
The campus may add requirements and exact other regula-
tions.

General Education Requirements

Each California State University, Long Beach, bacc-
alaureate graduate must have completed at least 51
semester units of General Education courses. Only courses
specifically approved for General Education and so listed in
the Schedule of Classes may be used to fulfill General
Education requirements. At least three units of the 51
General Education units must be instruction which focuses
on introductory examples of human diversity (Human Diver-
sity Courses). At least nine of the 51 General Education
units must be units taken at CSULB and after you achieve
upper division standing (completion of 60 semester units).
Of the nine upper division units, at least six units must be
from among approved interdisciplinary courses (I-tulfs).
The 51 units of General Education course work include:
three units of work in U.S. History and three units in U.S.
Constitution and American Ideals, required by Section
40424, Title 5, California Administrative Code. (See
Category D, below). Title 5 provides that each student shall
demonstrate competence by completing a course in these
fields or by passing a comprehensive examination in them.
These examinations are provided by the Departments of
History and Political Science, respectively.
No course in your major may be used to satisfy G.E. re-
quirements with these exceptions: all courses in Category
A, Category B.1 for life science majors, Category B.2 for
mathematics majors, Category D.1.a for history majors,
Category D.1.b for political science majors, interdisciplinary
courses (IC) and human diversity courses (HD) for all
majors.

General Education units must be distributed as
follows:

Category A:
Communication in the English Language and Critical
Thinking—9 units to include:
(1) One approved course in written English;
(2) One approved course in oral communication or a
combination of oral and written communication, to
include an understanding of the process of
communication and experience in communication;
(3) One approved course in critical thinking, designed to
develop the ability to reason clearly and logically and to
analyze the thinking of others.

Category B:
Physical Universe—12 units to include:
(1) At least six units of inquiry into the physical universe
and its life forms to include one approved course in the
life sciences and one approved course in the physical
sciences; both must involve laboratory experience;
(2) At least three units of study in mathematical concepts
and quantitative reasoning; approved courses foster an
understanding of mathematical concepts rather than
merely providing instruction in basic computational
skills;
(3) Another three units as necessary, selected from
approved courses, to achieve a minimum of 12 units.

Category C:
Humanities and the Arts—12 units to include:
(1) At least three units from approved fine arts courses;
(2) At least six units from approved courses to include
courses in at least two of the following areas:
(a) literature
(b) philosophy;
(c) foreign languages
(3) Another three units as necessary, selected from
approved courses to achieve a minimum of 12 units.

Category D:
Social and Behavioral Sciences and Their Historical
Backgrounds—15 units to include:
(1) Citizenship
(a) Three (3) units selected from courses in U.S.
History;
(b) Three (3) units selected from courses in U.S.
Constitution and Ideals (formerly Category F.)
(2) Social and Behavioral Science: At least nine (9)
units from approved courses in at least two disciplines;
(a) At least three (3) units selected from approved
courses which concern world societies and cultures
in an international context;
(b) The remaining units are to be selected from the
general list of approved social and behavioral
science courses (categories D.1.a, D.1.b, D.2.a,
and D.2.b).

Category E:
Self-Integration—3 units:
At least three units selected from approved courses
which facilitate understanding of the human being as an
integrated physiological, psychological, and social
organism.