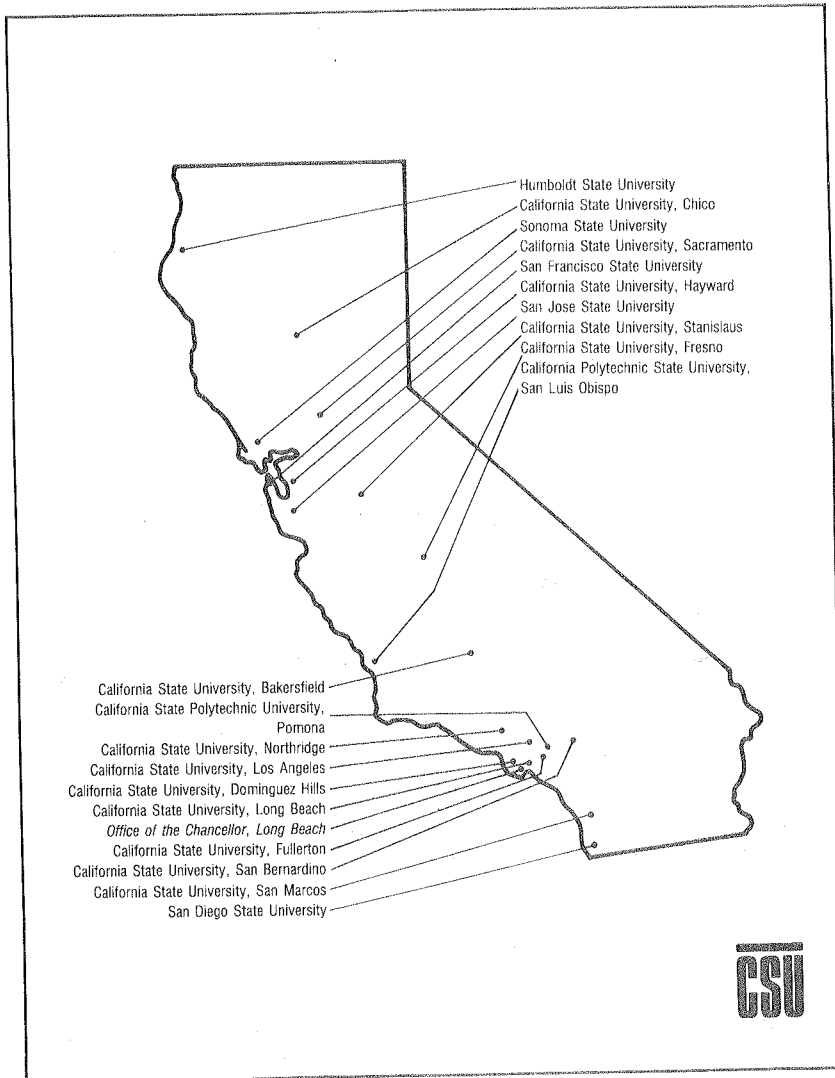


# California State University, Long Beach Bulletin 1993-94 Undergraduate and Graduate Catalog



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# Baccalaureate Degrees, Other Undergraduate Programs, and General Education

## 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

Social Work  
Sociology  
Spanish  
Speech Communication  
Theatre Arts

### Bachelor of Fine Arts Degree in:

Art  
Dance

### Bachelor of Music Degree

### 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 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  
Honors 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  
Nurse 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 so noted on your transcript.

### **Credential 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 BACCALAUREATE 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 30 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.

— Complete 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 teacher credential 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 denials 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 course work in writing skills and to prepare for meeting the upper division requirement, 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 a loss of future registration privileges. It may also lead to administrative probation and possible disqualification from future attendance (Section 41300.1 of Title 5, California Administrative Code and CSU Executive Order 186). The results of the EPT will not affect admission eligibility. Information regarding the EPT can be obtained from the Department of English, McIntosh Humanities Office Building, Room 419 or the Office of Testing and Evaluation Services SS/AD 216, (310) 985-4006.

#### 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 portions 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

major department. The examination may be retaken as many times as necessary. Information regarding the administration of this examination may be obtained from the Office of Testing and Evaluation Services (SS/AD 216). To cover the costs of administration and scoring, a fee will be charged each time you take the examination.

### Supplemental Instruction

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 these classes.

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

Non-baccalaureate-level course designed to prepare students for the Writing Proficiency Examination (WPE). S-I 050A is open to students who have not yet attempted the WPE. S-I 050B,C,D, and F 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 advisement, and study skills instruction to all students admitted into the program to insure 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 and orientation 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 1983 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 the 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 the first semester of attendance. 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 393).

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-

ions and Records. Further information regarding the test may be obtained from the Office of Testing and Evaluation Services, SS/AD 216, (310) 985-4006.

### Special Course Requirement

#### UNIV 100. University 100 (1) F,S

All undergraduate students who enter this university with fewer than 56 transferable semester units shall complete a one-unit (15 hour) course which includes instruction on the following topics: (a) history, missions, and structures of higher education (b) career planning (c) the use of the University Library. This course must be completed during the first or second semester on campus.

University 100 includes an introduction to university traditions, to current issues in higher education (e.g., the role of general education, global interconnectedness, ethics); to academic freedom, tenure, and students' rights and responsibilities; and to services available at the university throughout the student's academic career (e.g., Career Development Center, Learning Assistance Center). It also includes a self-instructed component on the use of the University Library.

University 100 is offered during the week before each regular semester, during the first five weeks of the semester, or as a two-day intensive class. Please consult the Schedule of Classes under "University 100" for information on class scheduling.

Students who do not complete the requirement in their first two semesters of enrollment on campus will be disenrolled from the university for their third regular semester.

#### UNIV 400. The University in Your Future — Student Leadership (1) F,S

Prerequisites: Selected by University 100 Director. Students assist University 100 faculty in presentation of course. May be repeated for a maximum of 3 units.

## 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

present the results of these processes with clarity and style;

- Qualities of Mind: a respect for data and unpleasant facts; an appreciation of the arts; tolerance, commitment, a taste for learning; creativity, perpetual curiosity, and a sensitivity to ethical considerations.

The present policy of the Board of Trustees of The California State University is that students graduating from a CSU campus must fulfill certain breadth requirements (Section 40405, Title 5, California Administrative Code). Of these, a minimum of 9 semester units must be upper division courses taken at the campus conferring the degree. Partial credit may be transferred from another institution; a participating, regionally-accredited institution may certify completion 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 institutions (except where a maximum of 39 units are certified). The campus may add requirements and enact other regulations.

### General Education Requirements

Each California State University, Long Beach, baccalaureate 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 instructive examples of human diversity (Human Diversity 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-suffix). 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 40404, 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. requirements 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, and
  - (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.