

UNDERGRADUATE AND GRADUATE DEGREES

| Degree Title | Degree ¹ | Degree Title | Degree ¹ |
|---|--|--------------------------------------|---------------------------------|
| Aerospace Engineering | B.S. | Fine Arts | M.F.A. |
| African American Studies | B.A. | French | B.A., M.A. ² , Ph.D. |
| Anthropology | B.A., M.A. ² , Ph.D. | Genetic Counseling | M.S. |
| Applied Ecology | B.S. ³ | Genetics | B.S. |
| Art History | B.A. | German | M.A. ² , Ph.D. |
| Arts and Humanities | B.A. | German Studies | B.A. |
| Asian American Studies | B.A. | Global Cultures | B.A. |
| Biochemistry and Molecular Biology | B.S. | History | B.A., M.A., Ph.D. |
| Biological Sciences | B.S., M.S. ⁴ , Ph.D. | Humanities | B.A. |
| Biomedical Engineering | B.S., M.S., Ph.D. | Humanities and Arts | B.A. |
| Biomedical Engineering: Premedical | B.S. | Informatics | B.S. |
| Business Administration | B.A., M.B.A. | Information and Computer Science | B.S., M.S., Ph.D. |
| Business Economics | B.A. | International Studies | B.A. |
| Business Information Management | B.S. | Japanese Language and Literature | B.A. |
| Chemical and Biochemical Engineering | M.S., Ph.D. | Korean Literature and Culture | B.A. |
| Chemical Engineering | B.S. | Latin | B.A. |
| Chemistry | B.S., M.S. ^{2, 5} , Ph.D. | Literary Journalism | B.A. |
| Chicano/Latino Studies | B.A. | Management | M.S. ² , Ph.D. |
| Chinese Studies | B.A. | Materials Science and Engineering | M.S., Ph.D. |
| Civil Engineering | B.S., M.S., Ph.D. | Materials Science Engineering | B.S. |
| Classical Civilization | B.A. | Mathematics | B.S., M.S. ⁵ , Ph.D. |
| Classics | B.A., M.A. ² , Ph.D. ⁶ | Mechanical and Aerospace Engineering | M.S., Ph.D. |
| Comparative Literature | B.A., M.A. ² , Ph.D. | Mechanical Engineering | B.S. |
| Computer Engineering | B.S. | Medicine | M.D. |
| Computer Science | B.S., M.S., Ph.D. | Microbiology and Immunology | B.S. |
| Computer Science and Engineering | B.S. | Music | B.A., B.Mus., M.F.A. |
| Criminology, Law and Society | B.A., M.A.S., Ph.D. | Music Theatre | B.F.A. |
| Culture and Theory | M.A. ² , Ph.D. | Networked Systems | M.S., Ph.D. |
| Dance | B.A., B.F.A., M.F.A. | Neurobiology | B.S. |
| Developmental and Cell Biology | B.S. | Nursing Science | B.S. |
| Drama | B.A., M.F.A. | Pharmaceutical Sciences | B.S. |
| Drama and Theatre | Ph.D. ⁷ | Pharmacology and Toxicology | M.S. ² , Ph.D. |
| Earth and Environmental Sciences | B.S. | Philosophy | B.A., M.A. ² , Ph.D. |
| Earth System Science | M.S. ² , Ph.D. | Physics | B.S., M.S. ² , Ph.D. |
| East Asian Cultures | B.A. | Planning, Policy, and Design | Ph.D. |
| East Asian Languages and Literatures | M.A. ² , Ph.D. | Plant Biology | B.S. |
| Ecology and Evolutionary Biology | B.S. | Political Science | B.A., M.A. ² , Ph.D. |
| Economics | B.A., M.A. ² , Ph.D. | Psychology | B.A., M.A. ² , Ph.D. |
| Education | Credential Programs | Psychology and Social Behavior | B.A., Ph.D. |
| Educational Administration and Leadership | Ed.D. ⁸ | Public Health Policy | B.A. |
| Electrical and Computer Engineering | M.S., Ph.D. | Public Health Sciences | B.S. |
| Electrical Engineering | B.S. | Quantitative Economics | B.A. |
| Elementary and Secondary Education | M.A.T. | Religious Studies | B.A. |
| Engineering | B.S., M.S., Ph.D. | Social Ecology | B.A., M.A., Ph.D. |
| English | B.A., M.A. ² , M.F.A., Ph.D. | Social Science | B.A., M.A. ⁹ , Ph.D. |
| Environmental Analysis and Design | B.A. ³ | Sociology | B.A., M.A. ² , Ph.D. |
| Environmental Engineering | B.S. | Spanish | B.A., M.A., Ph.D. |
| Environmental Health Science and Policy | M.S. ³ , Ph.D. ³ | Statistics | M.S., Ph.D. |
| Environmental Toxicology | M.S., Ph.D. | Studio Art | B.A., M.F.A. |
| European Studies | B.A. | Transportation Science | M.S., Ph.D. |
| Film and Media Studies | B.A. | Urban and Regional Planning | M.U.R.P. |
| | | Visual Studies | M.A. ² , Ph.D. |
| | | Women's Studies | B.A. |

¹ Degrees: B.A. = Bachelor of Arts; B.F.A. = Bachelor of Fine Arts; B.S. = Bachelor of Science; B.Mus. = Bachelor of Music; Ed.D. = Doctor of Education; M.A. = Master of Arts; M.A.S. = Master of Advanced Study; M.A.T. = Master of Arts in Teaching; M.F.A. = Master of Fine Arts; M.S. = Master of Science; M.B.A. = Master of Business Administration; M.D. = Doctor of Medicine; M.U.R.P. = Master of Urban and Regional Planning; Ph.D. = Doctor of Philosophy. Titles of degrees may not correspond exactly with specific fields of study offered; see the Index and the academic unit sections for information.

² Emphasis at the graduate level is on the Ph.D. degree; the master's degree may be awarded to Ph.D. students after fulfillment of the requirements.

³ Admission to this program is no longer available.

⁴ Emphasis at the graduate level is on the Ph.D. degree; the M.S. degree may be awarded to Ph.D. students after fulfillment of the requirements. However,

students may apply directly to the M.S. concentration in Biotechnology and in Ecology and Evolutionary Biology.

⁵ In addition to the regular M.S. degree program, a program coordinated with the Department of Education leads to an M.S. degree and a Teaching Credential.

⁶ UCI, UCR, and UCSD joint program.

⁷ UCI and UCSD joint program.

⁸ UCI and CSU Fullerton, Long Beach, Los Angeles, and Pomona joint program; admission is no longer available.

⁹ Emphasis at the graduate level is on the Ph.D. degree; the M.A. degree may be awarded to Ph.D. students after fulfillment of the requirements. However, an M.A. in Social Science (concentration in Demographic and Social Analysis or in Mathematical Behavioral Sciences) is available.

NOTE: A list of inactive degree programs is available in the Appendix.

UNDERGRADUATE MAJORS, MINORS, AND ASSOCIATED AREAS OF STUDY

Students are urged to become informed of and understand all requirements concerning their intended majors, minors, and associated areas of study. Special restrictions apply to some majors and minors; for example, some minors require formal application or declaration by students, others may be completed without such formalities. Information about the programs listed below may be found in the academic unit sections of the *Catalogue*.

Undergraduate majors are offered in all of the bachelor's degree programs on the list of degree titles; the degree programs are referred to as majors in the following list. In association with these majors, UCI offers a number of minors, concentrations, specializations, and emphases.

A **minor** consists of a coordinated set of courses (seven or more) which together take a student well beyond the introductory level in an academic field, subject matter, and/or discipline but which are not sufficient to constitute a major. An **interdisciplinary minor** consists of courses offered by two or more departments, schools, or programs. Generally, all minors are available to all students, with the following exceptions: (1) students may not minor in their major, and (2) students may not complete certain other major/minor combinations that are expressly prohibited, as noted in the *Catalogue*. Minors are listed on a student's transcript but not on the baccalaureate diploma.

A **concentration** is a program of interdisciplinary study consisting of courses offered by two or more schools or programs. Concentrations are similar to minors in that they require fewer units of work than majors do, and the area of concentration appears on the student's transcript but not on the baccalaureate diploma. Concentrations are taken in combination with a major in one of the schools or programs offering the concentration.

A **specialization** is a program of study which enables students to focus on courses in a particular field within a major. The area of specialization pursued appears on the student's transcript but not on the baccalaureate diploma.

An **emphasis** is a program of study within a major which emphasizes a specific area of the discipline. Emphases usually have a defined course of study and are not listed on the transcript nor on the baccalaureate diploma.

In addition, the Campuswide Honors Program, various major-specific honors programs, and Excellence in Research programs are available. See the Division of Undergraduate Education section for information.

CLAIRE TREVOR SCHOOL OF THE ARTS

Majors:

Arts and Humanities

Dance

Specializations (B.F.A. only):

Choreography

Performance

Drama

Music

Emphases (B.A. only):

Composition

Music History

Music Theory

Performance

Specializations (B.Mus. only):

Guitar and Lute Performance

Instrumental Performance

Bassoon

Clarinet

Double Bass

Flute

Horn

Oboe

Percussion

Trombone

Trumpet

Tuba

Viola

Violin

Violoncello

Jazz Studies

Bass

Percussion

Piano

Saxophone

Trombone

Trumpet

Piano Performance

Vocal Performance

Music Theatre

Studio Art

Concentration: Game Culture and Technology

Minors:

Digital Arts

Drama

Studio Art

Concentration: Medieval Studies (in combination with any major in the Claire Trevor School of the Arts or the School of Humanities)

SCHOOL OF BIOLOGICAL SCIENCES

Majors:

- Biochemistry and Molecular Biology
- Biological Sciences
- Developmental and Cell Biology
- Ecology and Evolutionary Biology
- Genetics
- Microbiology and Immunology
 - Specializations:
 - Immunology
 - Microbiology
 - Virology
- Neurobiology
- Pharmaceutical Sciences (coordinated for the College of Health Sciences)
- Plant Biology

Concentration: Biological Sciences Education

Minor: Biological Sciences

THE PAUL MERAGE SCHOOL OF BUSINESS

Majors:

- Business Administration
- Business Information Management (offered jointly with the Donald Bren School of Information and Computer Sciences)

Minors:

- Accounting
- Management

3-2 Program: Available to outstanding undergraduates in all majors*

*The Henry Samueli School of Engineering majors should contact their academic counselor.

DEPARTMENT OF EDUCATION

Minor: Educational Studies

THE HENRY SAMUELI SCHOOL OF ENGINEERING

Majors:

- Aerospace Engineering
- Biomedical Engineering
 - Specialization: Biophotonics
- Biomedical Engineering: Premedical
- Chemical Engineering
 - Specializations:
 - Biochemical Engineering
 - Environmental Engineering
 - Materials Science
- Civil Engineering
 - Concentrations:
 - Computer Applications
 - Engineering Management
 - Infrastructure Planning
 - Mathematical Methods
 - Specializations:
 - General Civil Engineering
 - Environmental Hydrology and Water Resources
 - Structural Engineering
 - Transportation Systems Engineering
- Computer Engineering
- Computer Science and Engineering (offered jointly with the Donald Bren School of Information and Computer Sciences)
 - Tracks:
 - Algorithms
 - Artificial Intelligence
 - Embedded Systems
 - Parallel and Distributed Computing
- Electrical Engineering
 - Specializations:
 - Electro-optics and Solid-State Devices
 - Power Electronics and Power Systems
 - Systems and Signal Processing

- Engineering
- Environmental Engineering
- Materials Science Engineering
 - Specializations:
 - Biomaterials
 - Electronics Processing and Materials
 - Materials and Mechanical Design
- Mechanical Engineering
 - Specializations:
 - Aerospace Engineering
 - Energy Systems and Environmental Engineering
 - Flow Physics and Propulsion Systems
 - Design of Mechanical Systems

Minors:

- Biomedical Engineering
- Materials Science Engineering

SCHOOL OF HUMANITIES

Majors:

- African American Studies
- Art History
- Asian American Studies
- Chinese Studies
 - Emphases:
 - Chinese Culture and Society
 - Chinese Language and Literature
- Classical Civilization
- Classics
 - Emphases:
 - Greek
 - Latin
- Comparative Literature
 - Specialization: Cultural Studies
- East Asian Cultures
- English
 - Emphasis: Creative Writing
- European Studies
 - Emphases:
 - British Studies
 - Early Modern Europe
 - Encounters with the Non-European World
 - French Studies
 - German Studies
 - Italian Studies
 - Medieval Studies
 - The Mediterranean World: Past and Present
 - Modern Europe (1789–Present)
 - Russian Studies
 - Spanish-Portuguese Studies
- Film and Media Studies
- French
- German Studies
- Global Cultures
 - Emphases:
 - Atlantic Rim
 - Hispanic, U.S. Latino/Latina, and Luso-Brazilian Culture
 - Locating Africas (Nation, Culture, and Diaspora)
 - Locating Asias (Nation, Culture, and Diaspora)
 - Locating Europes and European Colonies
 - Pacific Rim
 - Inter-Area Studies
- History
- Humanities and Arts
- Humanities (Interdisciplinary)
- Japanese Language and Literature
- Korean Literature and Culture
- Latin
- Literary Journalism

Philosophy
 Religious Studies
 Emphases:
 Judaism/Christianity/Islam
 World Religious Traditions
 Spanish
 Emphases:
 Cinema: Spain, Latin America, and U.S. Latino
 Literature and Culture
 Spanish for Future Teachers
 Women's Studies

Minors:

African American Studies
 Archaeology
 Art History
 Asian American Studies
 Asian Studies
 Chinese Language and Literature
 Classical Civilization
 Comparative Literature
 English
 European Studies
 Film and Media Studies
 French
 German Studies
 Global Cultures
 Greek
 History
 Humanities and Law
 Italian Studies
 Japanese Language and Literature
 Jewish Studies
 Korean Literature and Culture
 Latin
 Latin American and Caribbean Studies
 Philosophy
 Portuguese
 Queer Studies
 Religious Studies
 Russian Studies
 Spanish
 Women's Studies

Concentration: Medieval Studies (in combination with any major in the Claire Trevor School of the Arts or the School of Humanities)

DONALD BREN SCHOOL OF INFORMATION AND COMPUTER SCIENCES

Majors:

Business Information Management (offered jointly with The Paul Merage School of Business)
 Computer Science
 Concentration: Game Culture and Technology
 Computer Science and Engineering (offered jointly with The Henry Samueli School of Engineering)
 Tracks:
 Algorithms
 Artificial Intelligence
 Embedded Systems
 Parallel and Distributed Computing
 Informatics
 Concentration: Game Culture and Technology
 Information and Computer Science
 Concentration: Game Culture and Technology
 Specializations:
 Artificial Intelligence
 Computer Systems
 Implementation and Analysis of Algorithms

Information Systems
 Networks and Distributed Systems
 Software Systems

Minors:

Informatics
 Information and Computer Science

INTERDISCIPLINARY STUDIES

Majors:

Business Information Management (offered jointly by The Paul Merage School of Business and the Donald Bren School of Information and Computer Sciences)
 Computer Science and Engineering (offered jointly by the Donald Bren School of Information and Computer Sciences and The Henry Samueli School of Engineering)
 Tracks:
 Algorithms
 Artificial Intelligence
 Embedded Systems
 Parallel and Distributed Computing

Minors:

Global Sustainability
 History and Philosophy of Science
 Native American Studies

SCHOOL OF PHYSICAL SCIENCES

Majors:

Chemistry
 Concentrations:
 Biochemistry
 Chemistry Education
 Earth and Environmental Sciences
 Mathematics
 Concentration: Mathematics for Economics
 Specializations:
 Applied and Computational Mathematics
 Mathematics for Education
 Statistics
 Physics
 Concentrations:
 Applied Physics
 Biomedical Physics
 Computational Physics
 Philosophy of Physics
 Physics Education
 Specialization: Astrophysics

Minors:

Earth and Atmospheric Sciences
 Mathematics

SCHOOL OF SOCIAL ECOLOGY

Majors:

Criminology, Law and Society
 Psychology and Social Behavior
 Public Health Policy (coordinated with the College of Health Sciences)
 Public Health Sciences (coordinated with the College of Health Sciences)
 Social Ecology

Minors:

Criminology, Law and Society
 Environmental Design
 Epidemiology and Public Health
 Psychology and Social Behavior
 Urban and Regional Planning

SCHOOL OF SOCIAL SCIENCES

Majors:

Anthropology
Business Economics
 Specialization: International Issues and Economics
Chicano/Latino Studies
Economics
 Specialization: International Issues and Economics
International Studies
Political Science
Psychology
Quantitative Economics
 Specialization: International Issues and Economics
Social Science
 Specializations:
 Multicultural Studies
 Public and Community Service
 Research and Social Policy
 Social Sciences for Secondary School Education
Sociology

Minors:

Anthropology
Chicano/Latino Studies
Conflict Resolution
Linguistics
Medical Anthropology
Political Science
Psychology
Sociology

COLLEGE OF HEALTH SCIENCES

Majors:

Nursing Science
Pharmaceutical Sciences (coordinated by the School of Biological Sciences)
Public Health Policy (coordinated with the School of Social Ecology)
Public Health Sciences (coordinated with the School of Social Ecology)

AREAS OF GRADUATE STUDY

For information about any area of graduate or professional study, **including the precise title of the degree conferred**, consult the *Catalogue's* academic unit sections.

Claire Trevor School of the Arts

Acting
Arts Computation Engineering¹
Choral Conducting
Collaborative Piano
Dance
Design
Directing
Drama
Drama and Theatre
Guitar/Lute Performance
Instrumental Performance
Integrated Composition, Improvisation, and Technology (ICIT)
Piano Performance
Stage Management
Studio Art
Vocal Arts

School of Biological Sciences

Anatomy and Neurobiology
Biological Chemistry
Biological Sciences
Biotechnology; Stem Cell Biology
Developmental and Cell Biology
Ecology and Evolutionary Biology

Experimental Pathology
Interdepartmental Neuroscience Program (INP)²
Mathematical and Computational Biology³
Medicinal Chemistry and Pharmacology (MCP)³
Microbiology and Molecular Genetics
Molecular Biology and Biochemistry
Molecular Biology, Genetics, and Biochemistry (MBGB)²
Neurobiology and Behavior
Physiology and Biophysics

The Paul Merage School of Business

Business Administration
Executive M.B.A. (EMBA)
Fully Employed M.B.A. (FEMBA)
Health Care Executive M.B.A. (HCEMBA)
Management

Department of Education

Education
Elementary and Secondary Education
Multiple Subject Instruction (elementary)⁴
Single Subject Instruction (secondary)⁴
Bilingual Crosscultural, Language, and Academic Development
 (BCLAD) Emphasis in Spanish⁴
Preliminary Administrative Services⁴
Professional Clear Administrative Services⁴

The Henry Samueli School of Engineering

Arts Computation Engineering¹
Biomedical Engineering
Chemical and Biochemical Engineering
Civil Engineering
Civil Engineering/Urban and Regional Planning⁵
Computer Graphics and Visualization
Computer Networks and Distributed Computing
Computer Systems and Software
Electrical Engineering
Environmental Engineering
Materials and Manufacturing Technology
Materials Science and Engineering
Mechanical and Aerospace Engineering
Networked Systems⁶

School of Humanities

Asian American Studies⁷
Art History⁸
Chicano/Latino Literature
Chinese Language and Literature
Classics
Comparative Literature
Creative Nonfiction
Creative Writing: Poetry or Fiction
Critical Theory
Culture and Theory
East Asian Cultural Studies
East Asian Languages and Literatures
English and American Literature
Feminist Studies⁹
Film and Media Studies⁸
French
German
Greek
History
History of Gender and Sexuality
Humanities
Japanese Language and Literature
Latin
Philosophy
Spanish

Spanish Literature
 Spanish-American Literature
 Translation Studies
 Visual Studies

Donald Bren School of Information and Computer Sciences

Arts Computation Engineering¹
 Computer Science
 Embedded Systems
 Informatics
 Informatics in Biology and Medicine
 Information and Computer Science
 Knowledge Discovery in Data
 Networked Systems⁶
 Statistics

Interdisciplinary Graduate Programs

Arts Computation Engineering¹
 Chemical and Materials Physics
 Interdepartmental Neuroscience Program (INP)²
 Mathematical and Computational Biology³
 Mathematical Behavioral Sciences
 Medicinal Chemistry and Pharmacology (MCP)³
 Molecular Biology, Genetics, and Biochemistry (MBGB)²
 Networked Systems⁶
 Transportation Science
 Visual Studies

School of Physical Sciences

Chemical and Materials Physics
 Chemistry
 Chemistry and Teaching Credential
 Earth System Science
 Mathematics
 Mathematics and Teaching Credential
 Medicinal Chemistry and Pharmacology (MCP)³
 Physics

School of Social Ecology

Criminology, Law and Society
 Demographic and Social Analysis
 Environmental Analysis and Design
 Epidemiology and Public Health¹⁰
 Planning, Policy, and Design
 Psychology and Social Behavior
 Social Ecology
 Urban and Regional Planning
 Urban and Regional Planning/Civil Engineering⁵

School of Social Sciences

Anthropology
 Chicano/Latino Studies
 Cognitive Neuroscience
 Cognitive Sciences
 Demographic and Social Analysis
 Economics
 Games, Decisions, and Dynamical Systems
 Logic and Philosophy of Science
 Mathematical Behavioral Sciences
 Political Psychology
 Political Science
 Psychology
 Public Choice
 Social Networks
 Social Science
 Sociology
 Transportation Economics

School of Medicine

Anatomy and Neurobiology
 Biological Chemistry
 Environmental Toxicology
 Epidemiology and Public Health¹⁰
 Experimental Pathology
 Genetic Counseling
 Interdepartmental Neuroscience Program (INP)²
 Medical Residency Programs
 Medical Scientist Program (M.D./Ph.D.)
 Medicinal Chemistry and Pharmacology (MCP)³
 Medicine
 Medicine/Business Administration¹¹
 Microbiology and Molecular Genetics
 Pharmacology and Toxicology
 Physiology and Biophysics
 Program in Medical Education for the Latino Community (PRIME-LC)

¹ Available in conjunction with selected master's programs. Admission is available through the Donald Bren School of Information and Computer Sciences only.

² School of Biological Sciences and School of Medicine joint program.

³ Available in conjunction with selected Ph.D. programs.

⁴ Credential program.

⁵ The Henry Samueli School of Engineering and School of Social Ecology concurrent master's program.

⁶ Donald Bren School of Information and Computer Sciences and The Henry Samueli School of Engineering joint program.

⁷ Available in conjunction with selected graduate programs. Contact the Department of Asian American Studies for information.

⁸ Graduate program in Visual Studies.

⁹ Available in conjunction with selected graduate programs. Contact the Department of Women's Studies for information.

¹⁰ The School of Social Ecology offers this concentration with participation from the Department of Epidemiology in the School of Medicine.

¹¹ School of Medicine and The Paul Merage School of Business program.