

UNDERGRADUATE AND GRADUATE DEGREES

Degree Title	Degree ¹	Degree Title	Degree ¹
Aerospace Engineering	B.S.	Genetic Counseling	M.S.
African American Studies	B.A.	Genetics	B.S.
Anthropology	B.A., M.A. ² , Ph.D.	German	M.A. ² , Ph.D.
Art History	B.A.	German Studies	B.A.
Arts and Humanities	B.A.	Global Cultures	B.A.
Asian American Studies	B.A.	History	B.A., M.A., Ph.D.
Biochemistry and Molecular Biology	B.S.	Humanities	B.A.
Biological Sciences	B.S., M.S. ⁴ , Ph.D.	Humanities and Arts	B.A.
Biomedical Engineering	B.S., M.S., Ph.D.	Informatics	B.S.
Biomedical Engineering: Premedical	B.S.	Information and Computer Science	B.S., M.S., Ph.D.
Business Administration	B.A., M.B.A.	International Studies	B.A.
Business Economics	B.A.	Japanese Language and Literature	B.A.
Business Information Management	B.S.	Korean Literature and Culture	B.A.
Chemical and Biochemical Engineering	M.S., Ph.D.	Latin	B.A.
Chemical Engineering	B.S.	Law	J.D.
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., M.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 and Environmental Studies	B.A.	Physics	B.S., M.S. ² , Ph.D.
Earth System Science	M.S. ² , Ph.D.	Planning, Policy, and Design	Ph.D.
East Asian Cultures	B.A.	Plant Biology	B.S.
East Asian Languages and Literatures	M.A. ² , Ph.D.	Political Science	B.A., M.A. ² , Ph.D.
Ecology and Evolutionary Biology	B.S.	Psychology	B.A., M.A. ² , Ph.D.
Economics	B.A., M.A. ² , Ph.D.	Psychology and Social Behavior	B.A., Ph.D.
Education	Credential Programs	Public Health	M.P.H.
Education	M.A. ² , Ph.D.	Public Health Policy	B.A.
Educational Administration and Leadership	Ed.D. ⁸	Public Health Sciences	B.S.
Electrical and Computer Engineering	M.S., Ph.D.	Quantitative Economics	B.A.
Electrical Engineering	B.S.	Religious Studies	B.A.
Elementary and Secondary Education	M.A.T.	Social Ecology	B.A., M.A., Ph.D.
Engineering	B.S., M.S., Ph.D.	Social Science	B.A., M.A. ⁹ , Ph.D.
English	B.A., M.A. ² , M.F.A., Ph.D.	Sociology	B.A., M.A. ² , Ph.D.
Environmental Analysis and Design	B.A. ³	Spanish	B.A., M.A., Ph.D.
Environmental Engineering	B.S.	Statistics	M.S., Ph.D.
Environmental Health Science and Policy	M.S. ³ , Ph.D. ³	Studio Art	B.A., M.F.A.
Environmental Toxicology	M.S., Ph.D.	Transportation Science	M.S., Ph.D.
European Studies	B.A.	Urban and Regional Planning	M.U.R.P.
Film and Media Studies	B.A.	Urban Studies	B.A.
Fine Arts	M.F.A.	Visual Studies	M.A. ² , Ph.D.
French	B.A., 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; J.D. = Juris Doctor; M.A. = Master of Arts; M.A.S. = Master of Advanced Study; M.A.T. = Master of Arts in Teaching; M.B.A. = Master of Business Administration; M.F.A. = Master of Fine Arts; M.P.H. = Master of Public Health; M.S. = Master of Science; 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.

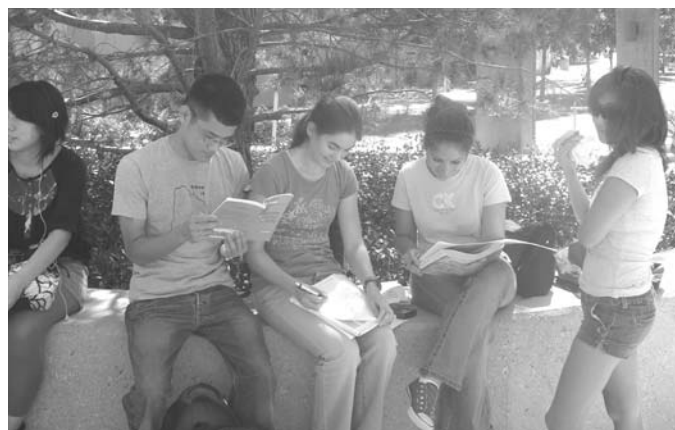
A **minor** consists of a coordinated set of courses (seven or more) which together take a student well beyond the introductory level in an academic field, subject matter, and/or discipline but which are not sufficient to constitute a major. An **interdisciplinary minor** consists of courses offered 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 (available to currently enrolled students majoring in Studio Art, Computer Science, Informatics, or Information and Computer Science)

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
 - Specializations:
 - Accounting
 - General Management
 - Marketing
- 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
 - Specializations:
 - Biophotonics
 - Micro and Nano Biomedical Engineering
- 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

Graphics/Vision

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

Africa (Nation, Culture) and its Diaspora

Asias (Nation, Culture) and its Diaspora

Europe and its Former 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
 Computer Science and Engineering (offered jointly with The Henry Samueli School of Engineering)
 Tracks:
 Algorithms
 Artificial Intelligence
 Graphics/Vision
 Parallel and Distributed Computing

Informatics**Specializations:**

Software Engineering
 Human-Computer Interaction
 Organizations and Information Technology

Information and Computer Science**Specializations:**

Artificial Intelligence
 Computer Systems
 Implementation and Analysis of Algorithms
 Information Systems
 Networks and Distributed Systems
 Optimization
 Software Systems

Concentrations:

Engineering and Computer Science in the Global Context (by approval of the Associate Dean, in combination with any major in the Bren School of ICS)

Game Culture and Technology (available to currently enrolled students majoring in Computer Science, Informatics, Information and Computer Science, or Studio Art)

Minors:

Informatics
 Information and Computer Science
 Statistics

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
 Graphics/Vision
 Parallel and Distributed Computing

Minors:

Civic and Community Engagement
 Global Sustainability
 History and Philosophy of Science
 Native American Studies

SCHOOL OF PHYSICAL SCIENCES

Majors:**Chemistry****Concentrations:**

Biochemistry
 Chemistry Education

Earth and Environmental Sciences

Earth and Environmental Studies

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
Social Ecology
Urban Studies

Minors:

Criminology, Law and Society
Environmental Design
Psychology and Social Behavior
Urban and Regional Planning
Urban Studies

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
Economics
Linguistics
Medical Anthropology
Political Science
Psychology
Sociology

COLLEGE OF HEALTH SCIENCES

Majors:

Nursing Science
Pharmaceutical Sciences
Public Health Policy
Public Health Sciences

Minor: Public Health

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
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
Cellular and Molecular Biosciences (CMB)¹
Developmental and Cell Biology
Ecology and Evolutionary Biology
Experimental Pathology
Interdepartmental Neuroscience Program (INP)¹
Mathematical and Computational Biology²
Medicinal Chemistry and Pharmacology (MCP)²
Microbiology and Molecular Genetics
Molecular Biology and Biochemistry
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 Subjects Credential (elementary)³
Single Subject Credential (secondary)³
Single Subject Credential in Mathematics, English, or Science
with an Internship³
Bilingual Crosscultural, Language, and Academic Development
(BCLAD) Emphasis in Spanish³
Preliminary Administrative Services³
Professional Clear Administrative Services³

The Henry Samueli School of Engineering

Biomedical Engineering
Chemical and Biochemical Engineering
Civil Engineering
Civil Engineering/Urban and Regional Planning⁴
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 Systems⁵

School of Humanities

Asian American Studies⁶
Art History⁷
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 Studies⁸
Film and Media Studies⁷
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

Computer Science
Critical Practices in Art, Science and Technology (CPAST)
Embedded Systems
Informatics
Information and Computer Science
Networked Systems⁵
Statistics

Interdisciplinary Graduate Programs

Critical Practices in Art, Science and Technology (CPAST)
Cellular and Molecular Biosciences (CMB)¹
Chemical and Materials Physics
Interdepartmental Neuroscience Program (INP)¹
Mathematical and Computational Biology²
Mathematical Behavioral Sciences
Medicinal Chemistry and Pharmacology (MCP)²
Networked Systems⁵
Transportation Science
Visual Studies

School of Law

Law (J.D.)

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)²

Physics

School of Social Ecology

Criminology, Law and Society
Demographic and Social Analysis
Environmental Analysis and Design
Epidemiology and Public Health⁹
Planning, Policy, and Design
Psychology and Social Behavior
Social Ecology
Urban and Regional Planning
Urban and Regional Planning/Civil Engineering⁴

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

College of Health Sciences

Nursing Science
Public Health

School of Medicine

Anatomy and Neurobiology
Biological Chemistry
Cellular and Molecular Biosciences (CMB)¹
Environmental Toxicology
Epidemiology and Public Health⁹
Experimental Pathology
Genetic Counseling
Interdepartmental Neuroscience Program (INP)¹
Medical Residency Programs
Medical Scientist Program (M.D./Ph.D.)
Medicinal Chemistry and Pharmacology (MCP)²
Medicine
Medicine/Business Administration¹⁰
Microbiology and Molecular Genetics
Pharmacology and Toxicology
Physiology and Biophysics
Program in Medical Education for the Latino Community (PRIME-LC)

¹ School of Biological Sciences and School of Medicine joint program.

² Available in conjunction with selected Ph.D. programs.

³ Credential program.

⁴ The Henry Samueli School of Engineering and School of Social Ecology concurrent master's program.

⁵ Donald Bren School of Information and Computer Sciences and The Henry Samueli School of Engineering joint program.

⁶ Available in conjunction with selected graduate programs. Contact the Department of Asian American Studies for information.

⁷ Graduate program in Visual Studies.

⁸ Available in conjunction with selected graduate programs. Contact the Department of Women's Studies for information.

⁹ The School of Social Ecology offers this concentration with participation from the Department of Epidemiology in the School of Medicine.

¹⁰ School of Medicine and The Paul Merage School of Business program.