

UC Santa Cruz
Office of the Registrar

Fields of Study

| | Undergraduate Education | | | Graduate Education | | | | |
|---|-------------------------|------|-------|--------------------|-------------|------|-------|---------------------|
| | B.A. | B.S. | Minor | Certificate | M.A./M.F.A. | M.S. | Ph.D. | Designated Emphasis |
| American Literature: see Literature | | | | | | | | |
| Academic English | | | | | | | | |
| Anthropology | • | | • | | | | • | • |
| Archaeology | | | | | | | C | |
| Cultural anthropology | | | | | | | C | |
| Physical anthropology | | | | | | | C | |
| Applied Mathematics | | | • | | | | | |
| Applied Mathematics and Statistics | | | | | | • | • | |
| Applied Linguistics | | | | | | | | |
| Applied Physics | | • | | | | | | |
| Art | • | | | | | | | |

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|--|---|---|---|--|--|---|--|--|
| Art and Design: Games and Playable Media | • | | | | | | | |
| Art History ; see History of art and visual culture | | | | | | | | |
| Asian studies : see East Asian studies | | | | | | | | |
| Astronomy and astrophysics | | | | | | • | | |
| Astrophysics (see also Physics [Astrophysics]) | | | • | | | | | |
| Bilingual-multicultural education : see Education | | | | | | | | |
| Biochemistry and molecular biology | | • | | | | | | |
| Bioengineering | | • | | | | | | |
| Assistive Technology: Cognitive/Perceptual | | c | | | | | | |
| Assistive Technology: Motor | | c | | | | | | |
| Bioelectronics | | c | | | | | | |
| Biomolecular | | c | | | | | | |
| Bioinformatics | | • | • | | | | | |

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|--|---|---|---|--|---|---|---|---|
| Biomolecular engineering and bioinformatics | | | | | | • | • | |
| Biological Sciences | | | | | | | | |
| Biology | • | • | • | | | | | |
| Bioeducation | c | | | | | | | |
| Ecology and evolution | | • | | | | | | |
| Ecology and evolutionary biology | | | | | • | | • | • |
| Human biology | | • | | | | | | |
| Marine biology | | • | | | | | | |
| Molecular, cell, and developmental biology | | • | | | • | | • | |
| Neuroscience | | • | | | | | | |
| Plant sciences | | • | | | | | | |
| Chemistry | • | • | • | | | • | • | |
| Biochemistry | | c | | | | | | |
| Environmental chemistry | | c | | | | | | |
| Chinese language | | | | | | | | |
| Classical studies (see also Literature) | • | | • | | | | | |

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|--|---|---|---|--|---|---|---|---|
| Cognitive science (see also Psychology) | | • | | | | | | |
| Community studies | • | | | | | | | |
| Computer engineering (1) | | • | • | | | • | • | |
| Computer systems | | c | | | | | | |
| Digital hardware | | c | | | | | | |
| Networks | | c | | | | | | |
| Robotics and control | | c | | | | | | • |
| Systems programming | | c | | | | | | |
| Computer science | • | • | • | | | • | • | |
| Computer science: Computer game design | | • | | | | | | |
| Creative writing: see Literature | | | | | | | | |
| Critical Race and Ethnic Studies | • | | | | | | | • |
| Dance: see Theater arts | | | | | | | | |
| Digital arts and new media (2) | | | | | • | | | |
| Drama: see Theater arts | | | | | | | | |
| Dramatic literature: see Theater arts | | | | | | | | |

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|--|---|---|---|--|---|---|---|---|
| Earth sciences | | • | • | | | • | • | |
| Environmental geology | | c | | | | | | |
| Ocean sciences | | c | | | | | | |
| Planetary sciences | | c | | | | | | |
| Science education | | c | | | | | | |
| East Asian studies | | | • | | | | | |
| Ecology and evolution | | • | | | | | | |
| Ecology and evolutionary biology | | | | | • | | • | |
| Economics | • | | • | | | | • | |
| Applied economics and finance | | | | | | • | | |
| Business management economics | • | | | | | | | |
| Global economics | • | | | | | | | |
| Education (3) | | | • | | • | | • | • |
| Science, technology engineering, and mathematics | | | • | | | | | |
| Bilingual-multicultural education | | | | | c | | | |
| Multiple subjects credential (elementary) | | | | | c | | | |

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|---|---|---|---|--|---|---|---|---|
| Single subjects credential (secondary) | | | | | c | | | |
| Language, literacy, and culture | | | | | | | c | |
| Learning and teaching | | | | | | | c | |
| Mathematics and science education | | | | | | | c | |
| Social and cultural contexts of education | | | | | | | c | |
| Teachers and teacher development | | | | | | | c | |
| Electrical engineering | | • | • | | | • | • | |
| Electronics/Optics | | c | | | | | | |
| Communications, signals, systems, and controls | | c | | | | | | |
| English: see Literature, and see Linguistics | | | | | | | | |
| Environmental studies | • | | | | | | • | • |
| Agroecology and Sustainable Food Systems | c | | | | | | | |

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|--|---|--|---|--|--|---|---|---|
| Environmental toxicology: see Microbiology and Environmental Toxicology | | | | | | | | |
| Feminist studies | • | | | | | | • | • |
| Culture, power, and representation | c | | | | | | | |
| Law, politics, and social change | c | | | | | | | |
| Science, technology, and medicine | c | | | | | | | |
| Sexuality studies | c | | | | | | | |
| Film and digital media | • | | • | | | | • | |
| Critical studies | c | | | | | | | |
| Integrated critical practice | c | | | | | | | |
| Production | c | | | | | | | |
| French Language | | | | | | | | |
| French literature: see Literature | | | | | | | | |
| Games and Playable Media | | | | | | • | | |
| Geology: see Earth Sciences | | | | | | | | |

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| German Language | | | | | | | |
| German literature: see Literature | | | | | | | |
| German studies | • | | | | | | |
| Global information and social enterprise studies | | | • | | | | |
| Greek Language: see Greek and Literature | | | | | | | |
| Greek literature: see Literature | | | | | | | |
| Hebrew language | | | | | | | |
| History | • | | • | | • | | • |
| Americans and Africa | c | | | | | | |
| Asia and the Islamic world | c | | | | | | |
| Colonialism, nationalism, and race | | | | | | | c |
| Europe | c | | | | | | |
| History of gender | | | | | | | c |
| History of art and visual culture | • | | • | | | | |
| Religion and visual culture | c | | | | | | |

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| History of consciousness | | | | | | | • | • |
| Human Biology | | • | | | | | | |
| Italian language | | | | | | | | |
| Italian literature: see Literature | | | | | | | | |
| Italian studies | • | | • | | | | | |
| Japanese language | | | | | | | | |
| Jewish studies | • | | • | | | | | |
| Languages | | | | | | | | |
| Language studies | • | | • | | | | | |
| Chinese | c | | c | | | | | |
| French | c | | c | | | | | |
| German | c | | c | | | | | |
| Italian | c | | c | | | | | |
| Japanese | c | | c | | | | | |
| Spanish | c | | c | | | | | |
| Latin American and Latino studies | • | | • | | | | • | • |
| Latin language: see Latin and Literature | | | | | | | | |
| Latin literature: see Literature | | | | | | | | |

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|--|---|---|---|--|---|--|---|---|
| Legal studies | • | | • | | | | | |
| Linguistics (4) (see also Language studies) | • | | • | | • | | • | |
| Theoretical linguistics | c | | | | c | | c | |
| Literature (5) | • | | • | | • | | • | • |
| Creative writing | c | | | | | | | |
| English-language literatures | c | | | | c | | c | |
| French literature | c | | | | c | | c | |
| German literature | c | | | | | | | |
| Greek and Latin literatures | c | | | | | | | |
| Italian literature | c | | | | | | | |
| Modern literary studies | c | | | | c | | c | |
| Pre- and early modern studies | c | | | | c | | c | |
| Spanish/Latin American/Latino literatures | c | | | | c | | c | |
| World literature and cultural studies | c | | | | c | | c | |
| Marine biology | | • | | | | | | |
| Marine sciences: see Ocean sciences | | | | | | | | |

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|---|---|---|---|--|---|---|---|--|
| Mathematics | • | | • | | • | | • | |
| Computational mathematics | C | | | | | | | |
| Mathematics education | C | | | | | | | |
| Pure mathematics | C | | | | C | | C | |
| Medieval studies: see Literature | | | | | | | | |
| Microbiology and environmental toxicology | | | | | | • | • | |
| Molecular, cell, and developmental biology | | • | | | • | | • | |
| Music (6) | • | | | | • | | • | |
| Electronic music | | | • | | | | | |
| Jazz | | | • | | | | | |
| Network and Digital Technology | • | | | | | | | |
| Neuroscience | | • | | | | | | |
| Ocean sciences | | | | | | • | • | |
| Biology (see also Marine biology) | | | | | | C | | |
| Biological oceanography | | | | | | | C | |

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|--------------------------------------|---|---|---|--|--|---|---|---|
| Chemical oceanography | | | | | | | c | |
| Chemistry | | | | | | | c | |
| Earth Sciences | | | | | | | c | |
| Geological oceanography | | | | | | | c | |
| Physical oceanography | | | | | | | c | |
| Physics | | | | | | | c | |
| Philosophy | • | | • | | | • | | • |
| Photography: see Art | | | | | | | | |
| Physics (7) | | • | • | | | | • | • |
| Physics (Astrophysics) | | • | | | | | | |
| Physics Education | | • | | | | | | |
| Plant sciences | | • | | | | | | |
| Playwriting: see Theater arts | | | | | | | | |
| Politics | • | | • | | | | • | • |
| Portuguese language | | | | | | | | |
| Psychology (5) | • | | | | | | • | |
| Cognitive psychology | | | | | | | c | |
| Developmental psychology | | | | | | | c | |

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| Social psychology | | | | | | | c | |
| Religious studies | | | | | | | | |
| Robotics Engineering | | • | | | | | | |
| Russian language | | | | | | | | |
| Science communication: Science writing | | | | • | | | | |
| Scientific Computing and Applied Mathematics | | | | | | • | | |
| Social documentation | | | | | • | | | • |
| Sociology (5) | • | | • | | | | • | • |
| Spanish for Heritage Speakers | | | | | | | | |
| Spanish language | | | | | | | | |
| Spanish literature: see Literature | | | | | | | | |
| Spanish Studies | • | | | | | | | |
| Languages and Linguistics | c | | | | | | | |
| Literature and Culture | c | | | | | | | |
| Statistics | | | • | | | | | • |
| Statistics and Applied Mathematics | | | | | | • | • | |

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|---|---|---|---|--|---|---|---|---|
| Sustainability Studies | | | • | | | | | |
| Technology and information management | | • | • | | | • | • | |
| Theater arts | • | | • | | • | | | |
| Dance | c | | • | | | | | |
| Design and technology | c | | | | | | | |
| Drama | c | | | | | | | |
| Visual Studies | | | | | | | • | • |
| Western civilization: see Literature | | | | | | | | |
| Women's studies (see Feminist Studies) | | | | | | | | |
| Writing | | | | | | | | |
| Yiddish Language | | | | | | | | |
| <p>Combined majors. In addition, students may complete a combined major leading to a B.A. degree in a number of designated fields. Combined majors currently available include those in Earth sciences/anthropology, economics/mathematics, environmental studies/biology, environmental studies/Earth sciences, environmental studies/economics, Latin American and Latino studies/politics, and Latin American and Latino studies/sociology. Students also have the option of pursuing a double major.</p> | | | | | | | | |
| <p>c = concentration, or emphasis, within a program. Some programs give students the option of following a general course of study or selecting a concentration; other programs require students to choose a concentration. Consult the program on the page indicated.</p> | | | | | | | | |
| <p>1. A combined B.S./M.S. program in computer engineering is also available. Undergraduate students in computer engineering, robotics engineering, electrical engineering, and computer science may apply to the program.</p> | | | | | | | | |
| <p>2. A Master of Fine Arts (M.F.A.) degree is awarded in digital arts and new media.</p> | | | | | | | | |

3. Because California state law requires prospective teachers to earn a bachelor's degree in an academic discipline other than education, no undergraduate major is offered. All teaching credentials are earned postbaccalaureate. UCSC offers the professional clear Cross-cultural, Language, and Academic Development (CLAD).

(CLAD) and Bilingual Cross-Cultural, Language and Academic Development (BCLAD) multiple subjects credentials, which are used in self-contained elementary classrooms (K-6) where all subjects are taught by the same teacher. UCSC also offers the CLAD and BCLAD single subjects credentials, which are used in departmentalized settings where the teacher is responsible for one subject (7-12). A Doctor of Education (Ed.D) in collaborative leadership is also available.

4. A combined B.A./M.A. program is also available.

5. An intensive major is also available.

6. A B.M. degree in music also available. A Doctor of Musical Arts (D.M.A.) degree in composition is also available.

7. Combined B.S./M.S. in physics is available with concentration in:

- (a) Materials and device physics
- (b) Energy and the environment
- (c) Computational physics
- (d) Medical biophysics

Degrees

B.A. = Bachelor of Arts

B.M. = Bachelor of Music

B.S. = Bachelor of Science

D.M.A. = Doctor of Musical Arts

Ed.D = Doctor of Education

M.A. = Master of Arts

M.F.A. = Master of Fine Arts

M.S. = Master of Science

Ph.D. = Doctor of Philosophy

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