

Fields of Study

Programs and concentrations. Links go to the detailed discussion of each program, including its courses, later in the catalog.

	Undergraduate Education			Graduate Education				
	B.A.	B.S.	Minor	Certi- ficate	M.A./ M.F.A.	M.S.	Ph.D.	Designated Emphasis
American literature: see Literature								
Academic English								
Anthropology	•		•				•	•
Archaeology							IC	
Cultural anthropology							IC	
Physical anthropology							IC	
Applied Mathematics			•					
Applied Mathematics and Statistics						•	•	
Applied Linguistics								
Applied physics		•						
Art	•							
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: Motor		IC						
Assistive Technology: Cognitive/Perceptual		IC						
Bioelectronics		IC						
Biomolecular		IC						
Rehabilitation		IC						
Bioinformatics		•	•					
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		IC						
Environmental chemistry		IC						
Chinese language								
Classical studies (see also Literature)	•		•					
Cognitive science (see also Psychology)		•						
Community studies	•							
Computer engineering (2)		•	•			•	•	
Computer systems		IC						
Digital hardware		IC						
Networks		IC						
Robotics and control		IC						•
Systems programming		IC						
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 (3)					.			
Drama: see Theater arts								
Dramatic literature: see Theater arts								
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 (4)			.		.		.	.
Science, technology engineering, and mathematics			.					
Bilingual-multicultural education					C			
Multiple subjects credential (elementary)					C			
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	.						.	.
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								
German language								
German literature: see Literature								
German studies	.							
Global information and social enterprise studies			.					
Greek language: see Greek and Literature								
Greek literature: see Literature								

4 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) 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.

5 An intensive major is also available.

6 B.M. degree in music also available. Doctorate of musical arts (D.M.A.) degree in composition also available.

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