

OFFICE *of* THE REGISTRAR

Fields of Study

2018-19 General Catalog

	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	
Biological Anthropology							c	
Applied Linguistics and Multilingualism	.							
Applied Mathematics			.					
Applied Mathematics and Statistics						.	.	
Applied Linguistics								
Applied Physics		.						
Art	.							

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: Motor		c						
Bioelectronics		c						
Bioinformatics			.					
Biomolecular Engineering and Bioinformatics (12)		.				.	.	
Biomolecular Engineering		c						
Bioinformatics		c						
Biological Sciences								
Biology	.	.	.					
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)	.		.					
Coastal Science and Policy						.		
Cognitive Science (see also Psychology)		.						
Community Studies	.							
Computational Media						.	.	
Computer Engineering (1)		.	.			.	.
Computer Systems		c						
Digital Hardware		c						
Networks		c						
Robotics and Control		c						.

Systems Programming		c						
Computer Science (2)	.	.	.			.	.
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						
Geology		c						
Ocean Sciences		c						
Planetary Sciences		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 Sciences		.						
Environmental Studies	.						.	.
Agroecology and Sustainable Food Systems	c							
Environmental Toxicology: see Microbiology and Environmental Toxicology								
Feminist Studies	.						.	.
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								
Global Information and Social Enterprise studies			.					

Greek Language: see Greek and Literature								
Greek Literature: see Literature								
Hebrew Language								
History (6)	.		.		.		.
The Americas and Africa	c							
Asia and the Pacific	c							
Europe and the Mediterranean World	c							
History of Art and Visual Culture	.		.					
Religion and Visual Culture	c							
History of Consciousness			.				.	.
Human Language Media and Modeling								.
Human Biology		.						
Italian Language								
Italian Literature: see Literature								
Italian Studies	.		.					
Japanese Language								
Jewish Studies	.		.					
Languages and Applied Linguistics								
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								
Legal Studies	.		.					
Linguistics (5) (see also Language Studies)	.		.		.		.
Literature (6)	.		.		.		.	.
Creative/Critical Writing							c	
Creative Writing	c							
French Literature	c							
General Literature	c							
German Literature	c							
Greek and Latin literatures	c							
Italian Literature	c							
Spanish/Latin American/Latino literatures	c							
Marine Biology		.						
Marine Sciences: see Ocean Sciences								
Mathematics (13)	.		.		.		.

Computational Mathematics	c							
Mathematics Education	c							
Pure Mathematics	c				c		c	
Medieval Studies: see Literature								
Microbiology and Environmental Toxicology (7)						.	.	
Molecular, Cell, and Developmental Biology		.			.		.	
Music (8)	.		.		.		.
Electronic Music			.					
Jazz			.					
Network and Digital Technology	.							
Neuroscience		.						
Ocean Sciences						.	.	
Biology (see also Marine Biology)						c		
Biological Oceanography							c	
Chemical Oceanography							c	
Chemistry						c		
Earth Sciences						c		
Geological Oceanography							c	
Physical Oceanography							c	
Physics						c		
Philosophy (9)	.		.		.		.	.

Photography: see Art								
Physics (10)		.	.			.	.
Physics (Astrophysics)		.						
Plant Sciences		.						
Playwriting: see Theater Arts								
Politics	.		.				.	.
Portuguese Language								
Psychology (6)	.						.	
Cognitive Psychology							C	
Developmental Psychology							C	
Social Psychology							C	
Religious Studies								
Robotics Engineering		.						
Russian Language								
Science Communication				.		.		
Scientific Computing								.
Scientific Computing and Applied Mathematics (11)						.		
Science Education		.						
Social Documentation (3)					.			.
Sociology (6)	.						.	.

Spanish for Heritage Speakers								
Spanish Language								
Spanish Literature: see Literature								
Spanish Studies	•							
Languages and Linguistics	c							
Literature and Culture	c							
Statistical Science						•		•
Statistics			•					•
Statistics and Applied Mathematics						•	•	
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								

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.

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.

1. A five-year contiguous bachelor's/master's pathway is available coordinating existing bachelor's degrees in computer engineering, robotics engineering, electrical engineering, and computer science and the M.S. in computer engineering.

2. A five-year contiguous bachelor's/master's pathway is available coordinating the existing bachelor's degree and master's degree in computer science.

3. A Master of Fine Arts (M.F.A.) degree is awarded in digital arts and new media and social documentation.

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).

(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).

5. A five-year contiguous bachelor's/master's pathway is available coordinating the existing bachelor's degree and master's degree in linguistics.

6. An intensive major is also available.

7. A five-year contiguous bachelor's/master's pathway is available coordinating an existing bachelor's degree from within the chemistry or biology programs (majors administered by the departments of MCD Biology, EE Biology, Chemistry and Biochemistry, and Biomolecular engineering) and the M.S. in microbiology and environmental toxicology.

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

9. A five year contiguous bachelor's/master's pathway is available coordinating the exiting bachelor's and master's degree in philosophy.

10. A five-year contiguous bachelor's/master's pathway is available coordinating the existing bachelor's degree and master's degree in physics. Students in the B.S./M.S. path can pursue concentrations in material and device physics, energy and the environment, computational physics, and medical biophysics.

11. A five-year contiguous bachelor's/master's pathway is available coordinating existing bachelor's degrees in mathematics, computer science, robotics engineering, physics, applied physics, and applied physics (astrophysics) and the M.S. in scientific computing and applied mathematics.

12. A five-year contiguous bachelor's/master's pathway is available coordinating the biomolecular engineering and bioinformatics bachelor's degree (bioinformatics concentration) with the master's degree.

13. A five-year contiguous bachelor's/master's pathway is available coordinating the existing bachelor's and master's degree in mathematics.

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