B.S. EARTH SYSTEM SCIENCE DEGREE REQUIREMENTS **Basic Requirements:** A. One course from the following: ESS 1 3 ____ 5___ <u>All</u> of the following courses: ESS 51 53 55 ESS 114 **OR** 115 116 192 Math 2A_____ 2B____ Stats 7___ __1C____; 1LC____1LD____ Chem 1A 1B Chem H2A H2B H2C ; H2LA H2LB H2LC Physics 3A 3B 3C ; 3LB 3LC **OR**Physics 7C 7E ; 7LC Physics 3A____ B. Additional Electives (seven courses from the following; at least 4 must be ESS courses) (ESS) (ESS) (ESS) (ESS) Earth System Science: Any four-unit upper-division course (100-199) except 114, 115, 116, 198 or H198; (ESS 199/H199 may be counted only once) Chemistry: 51A, 51B/LB, 51C/LC, 141 Physics: 115A Mathematics: 2D, 3A, 3D, 105A, 112A, 115 Mechanical and Aerospace Engineering (MAE): 91, 130A, 164 Civil and Environmental Engineering (CEE): 162, 171, 172, 176, 178 Biological Sciences: 93, 94, 98, D105, E106, E120, E150, E179, E179L, E189 Public Health: 161, 163, 167, 171, 173 Urban Planning and Public Policy (UPPP): 133, 139, 145 Computing Skills (one of the following may be counted toward the degree): ICS 31, EECS 10, MAE 10, Physics 53, or another approved programming course Optional Specialization in Atmospheric Science (Courses may be used to fulfill electives in section B, where overlap exists.) 198/H198/199/H199A-B-C Three courses from the following: ESS 122 124 142 (ESS 198/H198/199/H199A-B-C must be focused on atmospheric research and may be counted only once) AND One advanced tools course selected from the following: ESS 118____ 134___ 138___ Optional Specialization in Oceanography (Courses may be used to fulfill electives in section B, where overlap exists.) Three courses from the following: ESS 130 144 148 171 198/H198/199/H199A-B-C (ESS 198/H198/199/ H199A-B-C must be focused on oceanographic research and may be counted only once) **AND** One advanced tools course selected from the following: ESS 118 Optional Specialization in Hydrology and Terrestrial Ecosystems (Courses may be used to fulfill electives in section B, where overlap exists.) Three courses from the following: ESS 132_____133 **OR** 140____ 156 198/H198/199/H199A-B-C (ESS 198/H198/199/ H199A-B-C must be focused on terrestrial research and may be counted only once) **AND** One advanced tools course selected from the following: ESS 118 134 138

Optional Concentration in Geosciences Education with Secondary Teaching Certification

This concentration allows students pursuing the B.S. in Earth System Science to earn a bachelor's degree and complete the required course work and field experience for a California Preliminary Single Subject Teaching Credential at the same time. In addition to the major requirements listed above, all of the following must be completed:

ESS 7 OP 140 Physics 20A OP 20B Physical Sciences 5 105

ESS 7 OR 140	; Ph	ysics 20A OR 20B	; Ph	ysical Science	s 5;	
Chemistry/Physics	193	; LPS 60				
Education 55	109_	143AW	143BW_	148	and two quarters of Education 158	

UCI SCHOOL OF PHYSICAL SCIENCES UNIVERSITY / GENERAL EDUCATION REQUIREMENTS

NAMES	STUDENT ID	
Other Colleges		
UNIVERSITY REQUIREMENTS:		
English (UC ELW) American History Institutions		
RESIDENCY REQUIREMENTS: 36 of the final 45 units must be completed at UCI	TRANSFER STUDENTS:	
UNIT REQUIREMENT: 180 units are required for graduation	Partial IGETC	
GPA REQUIREMENT AND STANDING:	Full IGETC	
Overall GPA of 2.0 GPA in major at least a 2.0 GPA in upper-division major classes at least a 2.0	cert received? yes no	

General Education (GE) Requirements
I. Writing (2 lower-division, 1 upper-division)
1.
2.
3.
II. Science & Technology (any 3)
1.
2.
3.
III. Social & Behavioral Sciences (any 3)
1.
2.
3.
IV. Arts & Humanities (any 3)
1.
2.
3.
V. Quantitative, Symbolic and Computational Reasoning
Va.
Vb. Va or Vb.
VI. Language Other than English
1C or equivalent
10 or equivalent
VII. Multicultural Studies (one course)
VIII. International/Global Issues (one course)

Fall	Winter	Spring
Freshman		
Math 2A	Made OD	State 7
	Math 2B	Stats 7
Chem 1A	Chem 1B	Chem 1C, 1LC
ESS 1	GEN ED	GEN ED
ESS 45	GEN ED	GEN ED
Sophomore		
ESS 51	ESS 53	ESS 55
Physics 3A	Physics 3B, 3LB	Physics 3C, 3LC
Chem 1LD	GEN ED	GEN ED
	J	J
GEN ED	GEN ED	GEN ED
Junior		
ESS 114	ESS 116	ESS Elective
ESS 192	Approved Elective	ESS Elective
GEN ED/ Elective	GEN ED/ Elective	Flective
Elective	Elective	Elective
<u>Senior</u>		
ESS Elective	ESS Elective	ESS Elective
Approved Elective	Elective	Elective
Elective	Elective	Elective
Elective	Elective	Elective

(sample program, your schedule may differ greatly)

ESS Department:

http://www.ess.uci.edu

Research Opportunities:

http://www.ess.uci.edu/undergrad/opportunities

Course offerings:

http://www.ess.uci.edu/undergrad/coursesoffered For Enrollment questions:

https://www.ess.uci.edu/academics