

COASTAL ENVIRONMENTAL STUDIES, ASSOCIATE IN SCIENCE

This degree focuses on the interaction between humans and the coastal environment including biological, physical, and economic impacts. Students will use the scientific method and an understanding of ecological principles to critically analyze information on the ways human activities affect the environment. The A.S. in Coastal Environmental Studies is primarily intended for students pursuing a Bachelor's of Science in Environmental Studies or Environmental Science at a UC after transfer.

Students who plan to transfer to a four-year university should consult closely with a counselor and consult the ASSIST (<https://assist.org/>) website to determine which courses best fit their intended major and/or emphasis at the intended transfer institution.

Course ID	Title	Units/Hours
Required Core Courses		
Life Science Requirements		8-10
Complete both Biology courses. Most transfer institutions also require the laboratory courses as part of the degree.		
BIOL R120	Principles of Biology I	4
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology	1
BIOL R122	Principles of Biology II	4
BIOL R122L	Principles of Biology II Laboratory	1
Chemistry Requirements:		10
Complete both Chemistry courses. Please note that some transfer institutions also require the organic chemistry series.		
CHEM R120	General Chemistry I	5
CHEM R122	General Chemistry II	5
Earth Science Requirement:		3-4
Complete the Physical Geology lecture course. If required by the intended transfer institution, complete the Geology lab.		
GEOL R101	Physical Geology	3
GEOL R101L	Physical Geology Laboratory	1
Economics Requirements:		3
Choose the appropriate Economics course. Some transfer institutions require both ECON R201 and ECON R202.		
ECON R201	Introduction to the Principles of Microeconomics	3
or ECON R201H	Honors: Introduction to the Principles of Microeconomics	
ECON R202	Introduction to the Principles of Macroeconomics	3
or ECON R202H	Honors: Introduction to the Principles of Macroeconomics	
Math Requirements:		10
Complete both courses in Calculus. Please note that some transfer institutions also require statistics and/or additional math courses.		
MATH R120	Calculus with Analytic Geometry I	5

MATH R121	Calculus with Analytic Geometry II	5
Physics Requirements:		10-15
Complete one Physics series.		
PHYS R121	Physics with Calculus 1	5
PHYS R122	Physics with Calculus 2	5
or		
PHYS R131	Physics for Scientists and Engineers 1	5
PHYS R132	Physics for Scientists and Engineers 2	5
PHYS R133	Physics for Scientists and Engineers 3	5
Social Science Requirements:		3
Select 3 units from the following. Some transfer institutions require POLS R100 or POLS R104 as well as 3 additional Social Science units from the remaining choices.		
ANTH R102	Introduction to Cultural Anthropology	3
or ANTH R102H	Honors: Introduction to Cultural Anthropology	
PHIL R102	Introduction to Ethics	3
or PHIL R102H	Honors: Introduction to Ethics	
POLS R100	Introduction to Politics	3
POLS R104	Introduction to International Relations	3
SOC R101	Introduction to Sociology	3
or SOC R101H	Honors: Introduction to Sociology	
SOC R102	Social Problems	3
Coastal Studies Electives:		3
Select a minimum of 3 units of electives from the list below. Some transfer institutions require ESRM R100. Students should refer to ASSIST.org for guidance on course selection.		
ESRM R100	Introduction to Environmental Science	3
ESRM R100L	Introduction to Environmental Science Laboratory	1
BIOL/MST R100	Marine Biology	3
BIOL/MST R100L	Marine Biology Laboratory	1
BIOL/MST R170	Biological Marine Resource Management	1
GEOL/MST R103	Introduction to Oceanography	3
GEOL/MST R103L	Introduction to Oceanography Laboratory	1
GEOL/MST R178	Geological Marine Resources	1
MST R199	Directed Studies in Marine-Related Topics	1-3
Total Required Major Units		50-58
Oxnard College General Education		29
Double-Counted Units		- 12
Free Electives Required		0
Total Required Units for A.S. Degree		67-75
OR		
Total Required Major Units		50-58
CSU GE-Breadth		39
Health (can be taken within CSU GE)		3
PE / Kinesiology		1
Double-Counted Units		- 15-18
Free Elective Required		0
Total Required Units for A.S. Degree		75-86
OR		
Total Required Major Units		50-58
IGETC		37
Health		3

PE / Kinesiology	1
Double-Counted Units	- 16
Free Elective Required	0
Total Required Units for A.S. Degree	75-83

To complete the ASSOCIATE IN SCIENCE DEGREE, students must meet requirements in the major, general education, competency, units, scholarship, and residency. Refer to Earn an Associate Degree (<http://catalog.vcccd.edu/oxnard/graduation-requirements/earn-associate-degree/>) and the A.A. or A.S. Degree in Specific Majors (<http://catalog.vcccd.edu/oxnard/graduation-requirements/associate-degrees-specific-majors/>) sections of this catalog.

Upon successful completion of this program, students will be able to:

- Use the scientific method and an understanding of ecological principles to critically analyze information on the ways human activities affect the environment.
- Analyze the inherent environmental, social, and economics of living sustainably on current and future generations.
- Demonstrate proper use of a variety of field and/or laboratory techniques used in fields of environmental study.
- Understand and communicate complex relationships between natural and human systems.
- Demonstrate knowledge of the roles of societal and political organizations in environmental policy-making, regulation, compliance, and enforcement.