



COASTAL ENVIRONMENTAL STUDIES

Associate in Science Degree

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. The requirements for the A.S. degree in Coastal Environmental Studies are satisfactory completion of 60 semester units of which 50 must be completed from the required major courses. The remaining units should be chosen from the general education degree requirements found in the Oxnard College catalog. Students who plan to transfer to a four-year university should consult closely with a counselor and consult the www.assist.org website to determine which courses best fit their intended major and/or emphasis at the transfer institution. For more information contact: Dr. Shannon Newby (805) 678-5050 snewby@vcccd.edu OR Thomas O'Neil (805) 678-5076 toneil@vcccd.edu.

Required Core Courses		Units
Life Science Requirements (8 - 10 units)		
Complete both Biology courses. Most transfer institutions also require the laboratory courses as part of the degree.		
BIOL R120	Principles of Biology I <i>*Prerequisites: CHEM R120 and MATH R005 or MATH R015 or placement based on multiple measurements assessments</i> <i>**Advisories: ENGL R097 or ENGL R100 or ENGL R101</i>	4.0
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology <i>* Prerequisites: BIOL R120 or concurrent enrollment</i>	1.0
BIOL R122	Principles of Biology II <i>*Prerequisites: BIOL R120 and BIOL R120L and ENGL R100 or ENGL R101 or ENGL R101H and MATH R005 or MATH R014 or MATH R014B or MATH R015 or placement as determined by the college's multiple measures assessment process</i>	4.0
BIOL R122L	Principles of Biology II Lab <i>*Prerequisites: BIOL R120 and BIOL R120L and BIOL R122 or concurrent enrollment</i>	1.0
Chemistry Requirements (10 units)		
Complete both Chemistry courses. Please note that some transfer institutions also require the organic chemistry series.		
CHEM R120	General Chemistry I <i>*Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	5.0
CHEM R122	General Chemistry II <i>*Prerequisites: CHEM R120</i>	5.0
Earth Science Requirements (3 - 4 units)		
Complete the Physical Geology lecture course. If required by the intended transfer institution, complete the Geology lab.		
GEOL R101	Physical Geology	3.0
GEOL R101L	Physical Geology Lab <i>*Prerequisite: GEOL R101 or concurrent enrollment</i>	1.0
Economics Requirements (3 units)		
Choose the appropriate Economics course. Some transfer institutions require both ECON R101 and ECON R102.		
ECON R101/H	Introduction to the Principles of Macroeconomics <i>*Prerequisites: MATH R002 or MATH R005 or MATH R011 or MATH R015 or Placement as determined by the college's multiple measures process</i>	3.0
ECON R102/H	Introduction to the Principles of Microeconomics/ Honors <i>*Prerequisites: MATH R002 or MATH R005 or MATH R011 or MATH R015 or Placement as determined by the college's multiple measures process</i>	3.0



Math Requirements (10 units)

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 <i>*Prerequisites: MATH R115 or MATH R116 or MATH R117 or placement as determined by the college's multiple measures assessment process</i>	5.0
	-and- MATH R121	Calculus with Analytic Geometry II <i>*Prerequisites: MATH R120</i>	5.0

Physics Requirements (10 - 15 units)

Complete one PHYS series:

{	PHYS R121	Physics with Calculus 1 <i>*Prerequisites: MATH R120</i>	5.0
	-and- PHYS R122	Physics with Calculus 2 <i>*Prerequisites: MATH R121 and MATH R121</i>	5.0
	-or-		
	PHYS R131	Physics for Scientists and Engineers 1 <i>*Prerequisites: MATH R120</i>	5.0
	-and- PHYS R132	Physics for Scientists and Engineers 2 <i>*Prerequisites: MATH R121 and PHYS R131</i>	5.0
	-and- PHYS R133	Physics for Scientists and Engineers 3 <i>*Prerequisites: MATH R122 and PHYS R132</i>	5.0

Social Science Requirements (3 units)

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/H	Introduction to Cultural Anthropology / Honors	3.0
PHIL R102/H	Introduction to Ethics / Honors	3.0
POLS R100	Introduction to Politics	3.0
POLS R104	Introduction to International Relations	3.0
SOC R101/H	Introduction to Sociology / Honors	3.0
SOC R102	Social Problems	3.0

Coastal Studies Electives (3 units)

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/H	Introduction to Environmental Science / Honors <i>**Advisories: ENGL R101 or ENGL R101H</i>	3.0
ESRM R100L	Introduction to Environmental Science Laboratory <i>*Prerequisites: ESRM R100 or concurrent enrollment</i>	
ESRM R160	Intro to Research in Natural Resource Mgmt (same as MST R160) <i>*Prerequisites: ESRM R100</i> <i>**Advisories: BIOL R100 and BIOL R100L or BIOL R101 or BIOL R100H and BIOL R100L or CHEM R104 or GEOG R101 and GEOG R101L or GEOL</i>	4.0



	<i>R101 and GEOL R101L or GEOL R103 and GEOL R103L or MST R100 and MST R100L or MST R103 and MST R103L or PHYS R101 and PHYS R101L or PHYS R121</i>	
BIOL R100	Marine Biology (MST R100) **Advisories: ENGL R095 and ENGL R097 or ENGL R101 or placement based on multiple measurements assessments	3.0
BIOL R100L	Marine Biology Laboratory (MST R100L) *Prerequisites: BIOL R100 **Advisories: ENGL R095 and ENGL R097 or ENGL R101 or placement based on multiple measurements assessments	1.0
BIOL R170	Biological Marine Resource Management (MST R170) *Corequisites: GEOL R178 (MST R178)	1.0
GEOL R103	Introduction to Oceanography (MST R103)	3.0
GEOL R103L	Oceanography Lab (MST R103L) *Prerequisites: GEOL R103 (MST R103) or concurrent enrollment	1.0
GEOL R178	Geological Marine Resource Management (MST R178) *Corequisites: BIOL R170 (MST R170)	
MST R199	Directed Studies in Marine-Related Topics *Prerequisites: BIOL R100 and BIOL R100L or BIOL R101 or BIOL R101H and BIOL R101L or BIOL R120 and BIOL R120L or PHSO R101 or MICR R100 and MICR R100L or MST R100 and MST R100L	1-3
Total Required Major Units		50-58
Oxnard College General Education		29
Double-Counted Units		-(12)
Free Electives Required		+ 0
Total units required for the A.S. Degree		67-75