

# ENVIRONMENTAL SCIENCES ASSOCIATE IN SCIENCE DEGREE

PROGRAM CODE: 2S08435

The **Environmental Sciences Associate in Science Degree** program emphasizes the development of skills in natural history and ecology. Specified coursework trains students to identify, describe, and analyze natural environments in terms of native species and ecological processes. The program's many field-oriented lecture and laboratory courses investigate a variety of natural settings including chaparral, woodland, estuary, coastal ocean, island, desert, and mountain environments. Accompanying lecture courses provide the theoretical foundation to support comprehensive field studies. The Environmental Sciences Associate in Science Degree is designed to provide students with a breadth and depth of both conceptual and field-oriented knowledge. This degree requires a total of 22-26 units in the major in addition to other graduation requirements.

Code	Title	Units
<b>Required Courses (8 units):</b>		
ENVS 105 F	Environmental Biology	3
ENVS 105LF	Environmental Biology Lab	1
ESC 130 F	Introduction to Oceanography	3
or ESC 130HF	Honors Introduction to Oceanography	
ESC 130LF	Introduction to Oceanography Field Experience	1
<b>Restricted Lecture/Lab Electives (10-13 units):</b>		<b>10-13</b>
ANTH 101 F	Physical Anthropology	3
or ANTH 101HF	Honors Physical Anthropology	
ANTH 101LF	Physical Anthropology Lab	1
ANTH 109 F	Primate Behavior	3
BIOL 170 F	Organismal Biology	5
BIOL 222 F	Marine Biology	3
BIOL 274 F	General Ecology	4
BIOL 276 F	Genetics and Evolutionary Biology	4
ESC 101 F	Earth Science Survey	3
ESC 101LF	Earth Science Survey Lab	1
ESC 103 F	Historical Geology	4
ESC 110 F	Introduction to Climate Science	3
GEOG 120 F	Global Environmental Problems	3
GEOG 230 F	Introduction to Geographic Information Systems (formerly GEOG 281AF)	3
PE 239 F	Open Water Scuba Diving	3
<b>Restricted Field-Oriented Electives (4-5 units):</b>		<b>4-5</b>
ENVS 141 F	Desert Natural History	1
ENVS 142 F	Geology and Marine Biology of the Channel Islands	2
ESC 141 F	Geology of the Anza-Borrego Desert State Park Area	1
ESC 142 F	Geology of Mojave Desert Area	1
ESC 144 F	Geology of Southern California Mountain Areas	1

ESC 145 F	Geology of the Death Valley National Park Area	1
ESC 146 F	Geology of the Joshua Tree National Park Area	1
ENVS 140 F	Introduction to the Natural History of Birds (formerly Birds of Southern California)	1

**Total Units** **22-26**

**Outcome 1:** Employ ecological and evolutionary theory to analyze and interpret the structure and operations of a diversity of natural systems in order to design scientific studies, complete research reports, and/or inform decision makers and the public.

**Outcome 2:** Distinguish, classify, and assess species and ecological processes within a diversity of natural systems in order to increase personal and societal appreciation of the beauty, elegance, and value of the natural world.

**Outcome 3:** Assess the causes, and predict the consequences, of human population growth and industrialization, as they relate to human quality of life and global habitability, in order to inform decision makers and the public and/or design individual and collective remedies for positive change.

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