

Certificate of Achievement: Sustainable Resources, Energy Management, and Environmental Ethics

The Sustainable Resources, Energy Management, and Environmental Ethics Certificate of Achievement is an interdisciplinary program designed to provide students with the background necessary to examine the drivers and impacts of climate change and evaluate mitigation and adaptation measures to minimize the effects on local and global ecosystems and human societies. The certificate is flexible in terms of specialization due to multiple options for two of the courses that span math, chemistry, biology, anthropology, geography, environmental studies, and oceanography. The Certificate of Achievement provides an opportunity for students to refine their focus to align with a major area of study and offers a greater reach of topics than the Certificate of Specialization. In this way, the Certificate of Achievement can be viewed as a refinement and enhancement of the Certificate of Specialization. The certificate can be built into the Associate of Arts in Environmental Studies.

Certificate Student Learning Outcome:

Students will examine the drivers, impacts, and ethical implications of climate change and evaluate mitigation and adaptation strategies to minimize the effects on local and global ecosystems and human societies.

Programs Requirements:

Units Required: 16 – 19

		Units:
ENVRMT-103	Introduction to Environmental Science	4.0
ENVRMT-104	Energy Resources Conservation	3.0
PHILOS-250	Environmental Ethics	3.0

Plus two courses from the following for a minimum of 6 units:

ANTHRO-101	Biological Anthropology	3.0
OR		
ANTHRO-101H	Biological Anthropology – Honors	3.0
ANTHRO-101L	Biological Anthropology Laboratory	1.0
BIOSCI-100	General Biology	4.0
OR		
BIOSCI-100H	General Biology – Honors	4.0
BIOSCI-106	Organismal & Environmental Biology	4.0
OR		
BIOSCI-106H	Organismal & Environmental Biology – Honors	4.0
BIOSCI-115	General Zoology	4.0
BIOSCI-116	General Botany	4.0
BIOSCI-119	Marine Biology	4.0
OR		
OCEAN-119	Marine Biology	4.0
BIOSCI-130	Contemporary Issues in Environmental Biology	3.0
CHEM-151	Preparatory General Chemistry	4.0
OR		
CHEM-151H	Preparatory General Chemistry - Honors	4.0
ENVRMT-101	Introduction to Environmental Studies	3.0
GEOGRPH-100	Physical Geography	3.0
GEOGRPH-101	Physical Geography with Lab	4.0
GEOGRPH-103	Weather and Climate	3.0
STAT C1000	Introduction to Statistics	4.0

STAT C1000E	Introduction to Statistics	5.0
STAT C1000H	Introduction to Statistics Honors	4.0
OCEAN-101	Introduction to Oceanography	4.0

July 15, 2025