ENVIRONMENTAL TECHNOLOGY AND SUSTAINABILI

The Environmental Technology and Sustainability degree program is an interdisciplinary course of study that provides students with an introduction to Lenvironmental components, processes, and issues. The core areas covered by the degree are environmental science, biology, physical and earth sciences, and sustainability. Students pursuing this major have the option of exploring diverse fields in environmental management and restoration, natural resources conservation, and sustainability. Many of the courses emphasize exploration and study of the Lake Tahoe Basin and the surrounding areas, a natural lab of outstanding beauty and richness.

Student Learning Outcomes for this major are:

- Apply the scientific method to analyze organisms, structures, processes, and issues associated with local, regional, national, and global environments.
- Dissect, model, and communicate the complexity of the natural environment into its component interconnected systems.

GENERAL EDUCATION REQUIREMENTS See pages 55-57 for details.

CORE COURSES FOR THE ASSOCIATE DEGREE IN ENVIRONMENTAL TECHNOLOGY AND SUSTAINABILITY:

The following core courses are required of all Environmental Technology and Sustainability degree students (18 units).

Select one course from the following (minimum 3.5 units):

CHM 100 Introduction to General Chemistry CHM 101 General Chemistry CIS 135A/GEG 134 Introduction to Geographic Information Systems

MAT 201 Elementary Statistics

All courses as follows (11.5 units):

	EVS 102	Environmental Science: System Dynamic	
	EVS 103	Environmental Science: Human Impacts	
	EVS 104	Environmental Technology and	
		Sustainability Laboratory Methods	
	EVS 105	Environmental Technology and	
		Sustainability Field Methods	

A minimum of 3 units of Occupational Work Experience:

EVS 133 Internship Occupational Work Experience

AREAS OF CONCENTRATION: (Choose one option)

In addition to the required core courses listed above, students seeking an Environmental Technology and Sustainable degree must select a single area of concentration from the three listed. Students must complete all required courses within the single area of concentration selected.

1. ETS: BIOLOGICAL RESOURCES

A minimum of 10 units distributed as follows:

The following course (5 units):
BIO 111 Introd

BIO 212

Introduction to Plant and Animal Biology

Select a minimum 5 units from the following:

Systems Biology BIO 112 Field Methods in Wildlife Ecology BIO 113 **BIO 141A** Birds of the Lake Tahoe Basin Ecology BIO 149 BIO 201 Botany

Zoology TOTAL UNITS IN MAJOR (INCLUDING CORE) = 28

2. ETS: PHYSICAL RESOURCES

A minimum of 10 units distributed as follows: Select a minimum 5 units from the following:

GEG 101 Physical Geography **GEL 102** Physical Geology

Select a minimum 5 units from the following (not already used above):

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GEG 101	Physical Geography
GEG 105	Conservation of Natural Resources
GEG 106	California Geography
GEG 107	Water Quality Monitoring of Streams and
	Lakes
GEG 108	Water Resources
GEG 113	Meteorology
GEG 114	Economic Geography
GEL 101	Geology of California
GEL 102	Physical Geology
GEL 103	History of Earth and its Life
GEL 104	Geology of the Tahoe Basin
GEL 105	Geology of Desolation Wilderness
GEL 107	Geology of the Eastern Sierra
GEL 108	Environmental Geology
GEL 110	Geology of the National Parks and
	Monuments
GSE 110	History of Taming Water in the West

TOTAL UNITS IN MAJOR (INCLUDING CORE) = 28

Water Conservation

3. ETS: SUSTAINABILITY

GSE 111

A minimum of 10 units distributed as follows: Select a minimum 5 units from the following:

GSE 101	Introduction to Sustainability
GSE 103	Lake Tahoe Issues and Agencies
GSE 107	Energy, Society and Sustainability

minimum 5 units from the following (not already used above):			
BIO 149	Ecology		
GEG 107	Water Quality Monitoring of Streams and		
	Lakes		
GSE 101	Introduction to Sustainability		
GSE 103	Lake Tahoe Issues and Agencies		
GSE 105	Introduction to Green Business		
GSE 106	Landscape Design and Sustainable Site Plan		
GSE 107	Energy, Society and Sustainability		
GSE 110	History of Taming Water in the West		
GSE 111	Water Conservation		
GSE 115	Introduction to Geotourism		
GSE 120	Residential and Small Business Energy		
	Auditing		
GSE 126	Introduction to Solar Energy: Thermal,		
	Photovoltaic, Passive Design		
WLD 100	Foundations of Recreation Land		
	Management		

TOTAL UNITS IN MAJOR (INCLUDING CORE) = 28

ELECTIVE UNITS to bring the total to 90.