Environmental Resources –
Environmental Resources Technology

General Description

The Environmental Resources Technology course of study is designed for the individual who enjoys working outdoors by themselves or as part of a small crew. An Environmental Resources Technician is trained to work and navigate in a wildland environment, year-round, while collecting natural resource information for management and/or research purposes. This program prepares students to transfer to a four-year university to complete a Baccalaureate degree.

Program Learning Outcomes

Upon successful completion of this program, the student should be able to:

- Identify merchantable species and associated understory for west coast, coniferous forests
- Exhibit proficiency in both inventory and timber sale cruises, using a: prism, biltmore stick, clinometer or relaskop
- Navigate in wildland using a compass, topographic map, aerial photos and GPS
- Work independently, as well as interact effectively on a crew
- Collect data for wildlife and stream surveys, or other resource inventories
- Demonstrate proficiency with data recorders and computer data input and processing using standard cruise programs in addition to Microsoft Excel and Access

Career Options

Students who complete the Associate of Science (AS) degree in Environmental Resource Technology will be qualified to work outdoors on private, state or federal lands. They will be able to assist with all aspects of technical and field support activities of wild land management including forestry, fisheries, and wildlife management. Listed here are many organizations offering current job opportunities. Entry level into most of these jobs can be obtained with a 2 year AS degree.

Bureau of Land Management
California Forest Association
US Forest Service
CAL EPA
Northwest Center for Sustainable Resources
US Fish and Wildlife Service
NOAA fisheries
Private Consultants
Cal Fire
California State Parks and Recreation
California Department of Agriculture
California Department of Fish and Game
Peace Corps
Soil Conservation Service
Large land managers

For those who wish to further their education, and job possibilities, COS courses may be transferred to a variety of four year institutions enabling students to earn a BA/BS in their area of interest.

Program Enrollment Requirement (if any)

Degree/Certificate Options

Associate of Science (or Art) Degree
Environmental Resources Technology

Certificates of Achievement
Environmental Resources Technician

Certificate of Achievement
Requirements for the Certificate:
Complete the following:

ERRT 10	Introduction to Environmental Resources	3
ERRT 11	Forest Ecology	3
ERRT 12	Intro to Field Studies	.5
ERRT 20	Dendrology	3
ERRT 21	Intermediate Field Studies	.5
ERRT 22	Introduction to Surveying	3
ERRT 30	Silviculture	3
ERRT 31	Aerial Photo & GIS	3
ERRT 32	Advanced Field Studies	.5
ERRT 40	Principles of Wildlife Management	3
ERRT 42	Forest Measurements	3
ERRT 44	Forest and Resource Management	3

Total Certificate Units: 33.5

Associate of Science Degree
Requirements for the Major:
Complete the following:

ERRT 10	Introduction to Environmental Resources	3
ERRT 11	Forest Ecology	3
ERRT 12	Intro to Field Studies	.5
ERRT 20	Dendrology	3
ERRT 21	Intermediate Field Studies	.5
ERRT 22	Introduction to Surveying	3
ERRT 30	Silviculture	3
ERRT 31	Aerial Photo & GIS	3
ERRT 32	Advanced Field Studies	.5
ERRT 40	Principles of Wildlife Management	3
ERRT 42	Forest Measurements	3
ERRT 44	Forest and Resource Management	3

Complete **5 units** *of the following:*

ERRT 33	Forest Products	3
ERRT 34	Natural Resources Recreation & Interpretation	3
ERRT 41	Watershed Ecology	2
NR 2	Natural Resources Conservation	3

Total Major Units: 33.5

All courses must be completed with a grade of C or better.

In addition to the major requirements, students need to complete general education requirements and electives to reach the minimum of 60 degree-applicable units required for the associated degree. Consult with an advisor or a counselor to plan the courses necessary to achieve your academic goal.