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Wildlife Corridor Technician and Environmental Stewardship

Biological, Health, Environmental
Sciences Division/ES Dept.
Kirsch Center Room 218
408-864-8628, 8773

Counseling Center
Student and Community
Services Bldg. 2nd Fl.
408-864-5400

Career Services Info.
Student and Community
Services Bldg. 2nd Fl.
408-864-5400

Please visit the Counseling Center to apply for certificates and degrees, and for academic planning assistance.

Certificate of Achievement Level Requirements

A minimum "C" grade in each major course.

Note: A maximum of six (6) quarter units may be transferred from other academic institutions.

Certificate of Achievement-Advanced Level Requirements

1. A minimum "C" grade in each major course.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EVRT 1A or ESL 5 and eligibility for MATH 114.

Note: A maximum of 18 quarter units may be transferred from other academic institutions.

A.A./A.S. Degree Requirements

1. Completion of all General Education (GE) requirements (31-42 quarter units) for the A.A./A.S. degree. GE units must be completed with a minimum 2.0 GPA ("C" average).
2. Completion of all major requirements. Each major course must be completed with a minimum "C" grade. Major courses can also be used to satisfy GE requirements (except for Liberal Arts degrees).
Note: A maximum of 22 quarter units from other academic institutions may be applied toward the major.
3. Completion of a minimum of 90 degree-applicable quarter units (GE and major units included). All De Anza courses must be completed with a minimum 2.0 GPA ("C" average). All De Anza courses combined with courses transferred from other academic institutions must be completed with a minimum 2.0 GPA ("C" average).
Note: A minimum of 24 quarter units must be earned at De Anza College.

Major courses for certificates and degrees must be completed with a letter grade unless a particular course is only offered on a pass/no-pass basis.

Wildlife Corridor Technician Certificate of Achievement

This is a technician-level career program that prepares students to use 21st century wildlife corridor (connectivity) practices and technology. It also teaches students the scientific principles of corridor ecology, landscape ecology and ecosystem (adaptive) management. They are trained in Level I introductory wildlife tracking and monitoring, field-based practices and scientific protocols. A wildlife corridor technician applies wildlife corridor principles, theory, and technology to assist in the preservation, protection and restoration of native species and ecosystems.

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice and technology of wildlife corridors (connectivity or linking landscapes).
- utilize the terminology, concepts, and principles of the environmental sciences, corridor ecology, landscape ecology, ecosystem (adaptive) management, and the Rapid Assessment Methodology (RAM) developed at De Anza College.

1. Meet the requirements for this certificate level.
2. Complete the following.

ES 65	Environmental Stewardship	1
ESCI I	Environmental Science	4
ESCI 1L	Environmental Science Lab	1

ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	4
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques	4
ESCI 53	Wildlife Corridor Technician: Data Collection	1
ESCI 54	Wildlife Corridor Technician: Data Analysis	3
ESCI 55	Wildlife Corridor Technician: Corridor Design	3
ESCI 56	Wildlife Corridor Technician: Plant Survey Techniques	3
ESCI 57	Wildlife Corridor Technician: Advanced Tracking	2
	Total Units Required	26

Wildlife Corridor Technician Certificate of Achievement-Advanced

This is a technician-level career program that prepares students to use 21st century wildlife corridor (connectivity) practices and technology. It also teaches students the scientific principles of corridor ecology, landscape ecology and ecosystem (adaptive) management. Students are trained in Level 2 advanced wildlife tracking and monitoring, field-based practices and scientific protocols. A wildlife corridor technician applies wildlife corridor principles, theory, and technology to assist in the preservation, protection and restoration of native species and ecosystems.

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice and technology of wildlife corridors (connectivity or linking landscapes).
- utilize the terminology, concepts, and principles of the environmental sciences, corridor ecology, landscape ecology, ecosystem (adaptive) management, and the Rapid Assessment Methodology (RAM) developed at De Anza College.
- examine local wildlife in the field and the core corridor areas these species utilize.
- examine the data analysis equipment and processes used in wildlife corridor technology in the field.
- apply corridor ecology and connectivity concepts and techniques, including the Rapid Assessment Methodology, to local and statewide corridor cases to develop strategic community-based, collaborative efforts that preserve, protect, and restore native species, ecosystems and the landscape.

1. Meet the requirements for this certificate level.
2. Complete the course requirements for the Wildlife Corridor Technician Certificate of Achievement.
3. Complete the following.

ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ESCI 20	Introduction to Biodiversity	5
ESCI 58	Wildlife Corridor Technician: Advanced Tracking 2	4

Complete a minimum of five (5) units from the following: 5

ESCI 82,X,Y,Z	Central Coast Wildlife Corridors: Coyote Valley series (1-4 units)	
ESCI 83,X,Y,Z	Central Coast Wildlife Corridors: Salinas River Drainage series (1-4 units)	
ESCI 84,X,Y,Z	Central Coast Wildlife Corridors: San Benito River Drainage series (1-4 units)	
ESCI 85,X,Y,Z	Central Coast Wildlife Corridors: Pajaro River Drainage series (1-4 units)	
ESCI 86,X,Y,Z	Central Coast Wildlife Corridors: Pacheco Pass series (1-4 units)	

ESCI 87,X,Y,Z	Central Coast Wildlife Corridors: Diablo Range series series (1-4 units)	
ESCI 88,X,Y,Z	Central Coast Wildlife Corridors: Santa Cruz Mountains series (1-4 units)	
ESCI 90	Santa Clara County Field Studies: Tule Elk (1)	
ESCI 91	Santa Clara County Field Studies: American Badger (1)	
ESCI 92	Santa Clara County Field Studies: Raptors (1)	
	Total Units Required	42

ES 91X	Environmental Education and Nature-Based Learning (2)
ES 91Z	Environmental Education and Nature-Based Learning (4)
ES 93	Sustainability Across the Curriculum (1)
ES 95	Introduction to Environmental Careers (1)
ES 95B	Environmental Studies Internship (2)
ESCI 19	Environmental Biology (5)
ESCI 30	Conservation Biology (5)
CHEM 1A	General Chemistry (5)
CHEM 10	Introduction to Chemistry (5)
CHEM 30A	Survey of Chemistry (5)
CHEM 50	Preparatory Course for General Chemistry (5)
GEO 1	Physical Geography (4)
HIST 28	Social Environmental History (4)
MET 10	Weather Processes (4)
MET 10L	Meteorology Laboratory (1)
PHYS 50	Preparatory Physics (4)

Environmental Stewardship

A.A. Degree

This is a technician-level career program that prepares students to use 21st century wildlife corridor (connectivity) practices and technology. It also teaches students the scientific principles of corridor ecology, landscape ecology and ecosystem (adaptive) management. Students are trained in Level 2 advanced wildlife tracking and monitoring, field-based practices and scientific protocols.

This degree program teaches future wildlife corridor technicians to apply wildlife corridor principles, theory, and technology to assist in the preservation, protection and restoration of native species and ecosystems. It also teaches them skills useful in helping develop a regional habitat conservation plan (local) and/or natural community and conservation plan (state).

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice and technology of wildlife corridors (connectivity or linking landscapes).
- utilize the terminology, concepts, and principles of the environmental sciences, corridor ecology, landscape ecology, ecosystem (adaptive) management, and the Rapid Assessment Methodology (RAM) developed at De Anza College.
- examine local wildlife in the field and the core corridor areas these species utilize.
- examine the data analysis equipment and processes used in wildlife corridor technology in the field.
- apply corridor ecology and connectivity concepts and techniques, including the Rapid Assessment Methodology, to local and statewide corridor cases to develop strategic community-based, collaborative efforts that preserve, protect, and restore native species, ecosystems and the landscape.
- communicate with key stakeholders - government, resource agencies, agriculture, industry, the public, non-profits - the importance of the relationship between corridor ecology/ connectivity and the public good, particularly enhanced global, cultural, social and environmental well-being.

- Meet the AA/AS degree requirements.
- Complete the course requirements listed for the Wildlife Corridor Technician Certificates of Achievement and Achievement-Advanced 42
- Complete the following.

ESCI 21	Biodiversity 2	5
	<i>Complete a minimum of five (5) units from the following:</i>	5
ES 1	Introduction to Environmental Studies (4)	
ES 2	Humans, the Environment and Sustainability (4)	
ES 3	Imagery of the Environment (4)	
ES 6	Introduction to Environmental Law (4)	
ES 55	Ten Steps to Effective Learning in Environmental Studies (1)	
ES 56	Environmental Health and Justice (4)	
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional (4)	
ES 63	Agenda 21: Blueprint for Sustainability (1)	
ES 68	Community-Based Coalitions & Stakeholders (1)	
ES 80	California Field Studies (1)	
ES 85A	California Native Plants and Animals (2)	
ES 86	Global Field Studies (4)	
ES 90	Environmental Research and Field Methods (4)	

<i>Major</i>	<i>Environmental Stewardship</i>	<i>52 units</i>
<i>GE</i>	<i>General Education (31-42 units)</i>	
<i>Electives</i>	<i>Elective courses req'd. when major units plus GE units total is less than 90</i>	
	<i>Total Units Required</i>	<i>90 units</i>