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Academic Year 2013 - 2014

Environmental Studies Wildlife Science Technician

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 Science Technician

Certificate of Achievement

Technician-level career trained in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Trained in Level I introductory wildlife science and monitoring, field-based practices and scientific protocols. The WVS Technician will apply these principles and theory of wildlife science 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, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.

1. Meet the requirements for this certificate level.

2. Complete the following.

ES 65	Environmental Stewardship	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
ESCI 20	Introduction to Biodiversity	5
ESCI 21	Biodiversity 2	5
ESCI 30	Conservation Biology	5
ESCI 50	Introduction to Wildlife Corridor Tech: Connectivity	4
ESCI 82	Central Coast Wildlife Corridors: Coyote Valley series	1
Total Units Required		26

Wildlife Science Technician

Certificate of Achievement-Advanced

Technician-level career trained in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Trained in Level 2 wildlife science and monitoring, field-based practices and scientific protocols. The WVS Technician will apply these principles and theory of wildlife science 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, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.
- examine the local wildlife and core corridor/landscape areas utilized by wildlife species encountered in the field (Central Coast Region of California); Examine the data analysis equipment and processes used in wildlife sciences;
- apply the wildlife sciences concepts, techniques and protocols (including the Rapid Assessment Methodology) to local case studies to develop strategies for implementing community-based, collaborate efforts to preserve, protect and restore native species, ecosystems and landscape connectivity.

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

ES 6	Introduction to Environmental Law	4
ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ESCI 54	Wildlife Corridor Technician: Data Analysis	3
ESCI 55	Wildlife Corridor Technician: Corridor Design	3
ESCI 57	Wildlife Corridor Technician: Wildlife Tracking	2

Complete a minimum of two (2) units from the following:
(Note: Wildlife Science Technician units completed for the Certificate of Achievement do not count toward these units.)

ESCI 82 series	ESCI 82, 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley series (1-4 units)	
ESCI 87 series	ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range series (1-4 units)	
<i>Complete a minimum of five (5) units from the following:</i>		5
CHEM 1A	General Chemistry (5)	
CHEM 10	Introduction to Chemistry (5)	
CHEM 30A	Introduction to General, Organic and Biochemistry I (5)	
CHEM 50	Preparatory Course for General Chemistry (5)	
GEO 1	Physical Geography (4)	
MET 10	Weather and Climate Processes (5)	
MET 10L	Meteorology Laboratory (1)	
PHYS 50	Preparatory Physics (4)	
Total Units Required		47

Wildlife Science Technician

A.A. Degree

Technician-level career trained in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Trained in Level 1, 2 and 3 wildlife science and monitoring, field-based practices and scientific protocols. The WS Technician will apply these principles and theory of wildlife science to assist in the preservation, protection and restoration of native species and ecosystems and participate in the development of 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, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.
- examine the local wildlife and core corridor/landscape areas utilized by wildlife species encountered in the field (Central Coast Region of California); Examine the data analysis equipment and processes used in wildlife sciences.
- apply the wildlife sciences concepts, techniques and protocols (including the Rapid Assessment Methodology) to local case studies to develop strategies for implementing community-based, collaborate efforts to preserve, protect and restore native species, ecosystems and landscape connectivity.
- demonstrate the ability to communicate with key stakeholders the relationship between wildlife protection and preservation, landscape connectivity and the public good with government and resource agencies, agriculture and industry, the public, nonprofits and others to enhance global, cultural, social and environmental well-being and participate in the development of a regional habitat conservation plan (local) and/or natural community and conservation plan (state).

I. Meet the AA/AS degree requirements.

- Complete the course requirements listed for the Wildlife Science Technician Certificates of Achievement and Achievement-Advanced
- Complete the following.

ESCI 56	Wildlife Corridor Technician: Plant Survey Techniques	3
ESCI 58	Wildlife Corridor Technician: Wildlife Tracking and Landscape Linkages for California	2

*Complete a minimum of two (2) units from the following:
(Note: Wildlife Science Technician units completed for the Certificates do not count toward these units.)*

ESCI 82 series	ESCI 82, 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley series (1-4 units)	
ESCI 87 series	ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range series (1-4 units)	
ESCI 90	Santa Clara County Field Studies: Tule Elk (1)	
ESCI 92	Santa Clara County Field Studies: Raptors (1)	

Major	Wildlife Science Technician	54 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units