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Cupertino, CA 95014
408-864-5678
www.deanza.edu

Academic Year
2017 - 2018

Environmental Studies
Wildlife Science Technician

Biological, Health and
Environmental Sciences Division
Kirsch Center, Room 228
408-864-8773

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

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

Certificate of Achievement Requirements

Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher.

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

Certificate of Achievement-Advanced Requirements

1. Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A or EWRT 1AH 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 (32-43 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 courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher. 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.

Wildlife Science Technician

Certificate of Achievement

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes Level 1 introductory 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.

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 Laboratory | 1 |
| ESCI 20 | Introduction to Biodiversity | 5 |
| ESCI 21 | Biodiversity 2 | 5 |
| ESCI 30 | Conservation Biology | 5 |
| ESCI 50 | Introduction to Wildlife Science Technology | 4 |
| ESCI 82 | Central Coast Wildlife Corridors: Coyote Valley | 1 |
| Total Units Required | | 26 |

Wildlife Science Technician

Certificate of Achievement-Advanced

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes Level 2 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.

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. Complete the Certificate of Achievement requirements. 26
2. Meet the requirements for this certificate level.
3. Complete the following.

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

Complete a minimum of two (2) units: 2

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|----------------|---|--|
| ESCI 82 series | ESCI 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley (2-4) | |
| ESCI 87 series | ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range (1-4) | |

Complete a minimum of five (5) units: 5

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| CHEM 1A | General Chemistry (5) | |
| CHEM 10 | Introductory Chemistry (5) | |
| CHEM 25 | Preparation Course for General Chemistry (5) | |
| CHEM 30A | Introduction to General, Organic and Biochemistry I (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

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes 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).

1. Complete the Certificates of Achievement and the Certificate Achievement-Advanced requirements. 47
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

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|---------|---|---|
| ESCI 56 | Wildlife Science 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 not previously completed for the Certificate of Achievement and the Certificate of Achievement-Advanced: 2

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|----------------|---|--|
| E S 80 series | E S 80, 80X, 80Y, 80Z California Field Studies (1-4) | |
| ESCI 82 series | ESCI 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley (2-4) | |
| ESCI 87 series | ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range (1-4) | |
| ESCI 90 | Santa Clara County Field Studies: Tule Elk (1) | |
| ESCI 92 | Santa Clara County Field Studies: Raptors (1) | |

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|-----------|---|-----------|
| Major | Wildlife Science Technician | 54 |
| GE | General Education (32-43 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| | Total Units Required | 90 |