



2008 - 2009

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www.deanza.edu

Environmental Studies

Biodiversity Specialist, Energy Management, Environmental Compliance,
and Wildlife Corridor Technician/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 Center
Student and Community
Services Bldg. 2nd Fl.
408-864-5711

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

Certificate of Achievement Requirements

A minimum 2.0 GPA ("C" average) in the required units.
Note: A maximum of six (6) quarter units may be transferred from other academic institutions.

Certificate of Achievement-Advanced Requirements

1. A minimum 2.0 GPA ("C" average) in the required units.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 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. Major units must be completed with a minimum 2.0 GPA ("C" average). 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 offered on a pass/no-pass basis only.

Biodiversity Specialist

Certificate of Achievement[†]

Complete the following and meet the corresponding certificate requirements.

ES 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
ESCI 19	Environmental Biology	5
ESCI 20	Introduction to Biodiversity	5
ESCI 21	Biodiversity 2	5
ESCI 30	Conservation Biology	5
	Total Units Required	26

Biodiversity Specialist

Certificate of Achievement-Advanced

Complete the requirements listed for the Certificate of Achievement plus the following, and meet the corresponding certificate requirements.

Requirements	Biodiversity Specialist Certificate of Achievement	26
ES 1	Introduction to Environmental Studies	4
ES 80	California Field Studies	1
ES 85A	California Native Plants and Animals	2

ES 91X	Environmental Education and Nature-Based Learning	2
GEO 1	Physical Geography	4
<i>Complete one (1) of the following:</i>		
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)	5
	Total Units Required	44

Biodiversity Specialist

A.A. Degree

Complete the Certificate of Achievement-Advanced plus the following for the major, and meet the A.A./A.S. degree requirements.

Certificate	Biodiversity Specialist Certificate of Achievement-Advanced	44
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
<i>Complete a minimum of four (4) units from the following:</i>		
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 65	Environmental Stewardship (1)	
ES 66	Environmental Leadership (1)	
ES 67	Environmental Team-Building (1)	
ES 68	Community-Based Coalitions and Stakeholders (1)	
ES 85B	Cheeseman Environ. Study Area Interpretive Training (2)	
ES 86	Global Field Studies (4)	
ES 90	Environmental Research & Field Methods (4)	
ES 91Z	Environmental Education and Nature-Based Learning (4)	
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques (1)	
ESCI 55	Wildlife Corridor Technician: Corridor Design (1)	
MET 10	Weather Processes (4)	
MET 10L	Meteorology Laboratory (1)	
PHYS 2A	General Introductory Physics (5)	
PHYS 4A	Physics for Scientists and Engineers (6)	
PHYS 50	Preparatory Physics (3)	4

Major	Biodiversity Specialist	50 units
GE	General Education (31-42 units)	
Electives	Elective courses req'd. when major units plus GE units total is less than 90	
	Total Units Required	90 units

Energy Management and Climate Policy

Certificate of Achievement[†]

Complete the following and meet the corresponding certificate requirements.

ES 1	Introduction to Environmental Studies	4
ES 58	Introduction to Green Building	1
ES 65	Environmental Stewardship	1

[†] This certificate was submitted for State approval. Please check with the department for the status.

ES 66	Environmental Leadership	1
ES 69	Energy Reliability and Your Organization	1
ES 70	Introduction to Energy Management Technology	1
ES 71	The Building Envelope	1
ES 72	Heating, Ventilating & Air Conditioning (HVAC) Systems	1
ES 73	Electric Motors and Drives	1
ES 74	Lighting Distribution Systems	1
ES 75	Electric Power Systems	1
ES 76	Energy Star Products	1
ES 76A	Solar Thermal Systems	1
ES 78	Energy Management Systems and Controls	1
ES 79	Renewable and Alternative Energy Systems	1
ES 90	Environmental Research and Field Methods	4
ES 95	Introduction to Environmental Careers	1
ESCI 61	Introduction to Photovoltaic (PV) Technology	3
	Total Units Required	.26

Environmental Compliance & Pollution Prevention Certificate of Achievement †

Complete the following and meet the corresponding certificate requirements.

ES 1	Introduction to Environmental Studies	4
ES 6	Introduction to Environmental Law	4
ES 50	Introduction to Pollution Prevention, Hazardous Waste, and Environmental Justice	4
ES 56	Environmental Health and Justice	4
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional	4
ES 61B	Environmental Protection and Pollution Prevention: State and Federal	4
ES 65	Environmental Stewardship	1
ES 95	Introduction to Environmental Careers	1
	Total Units Required	.26

Energy Management and Climate Policy Certificate of Achievement-Advanced

Complete the requirements listed for the Certificate of Achievement plus the following, and meet the corresponding certificate requirements.

Requirements	Energy Management and Climate Policy Certificate of Achievement	26
ES 6	Introduction to Environmental Law	4
ES 55	Ten Steps to Effective Learning in ES	1
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional	4
ES 67	Environmental Team-Building	1
ES 68	Community-Based Coalitions & Stakeholders	1
ES 95B	Environmental Studies Internships	2
	Total Units Required	.39

Environmental Compliance & Pollution Prevention Certificate of Achievement-Advanced

Complete the requirements listed for the Certificate of Achievement plus the following, and meet the corresponding certificate requirements.

Requirements	Environmental Compliance and Pollution Prevention Certificate of Achievement	26
ES 58	Introduction to Green Building	1
ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ES 69	Energy Reliability and Your Organization	1
ES 79	Renewable Energy Systems	1
ES 90	Environmental Research & Field Methods	4
ESCI I	Environmental Science	4
ESCI II	Environmental Science Lab	1
	Total Units Required	.40

Energy Management and Climate Policy A.A. Degree

Complete the Certificate of Achievement-Advanced plus the following for the major, and meet the A.A./A.S. degree requirements.

Certificate	Energy Management and Climate Policy Certificate of Achievement-Advanced	39
ESCI I	Environmental Science I	4
ESCI II	Environmental Science I Lab	1
ESCI 63	Photovoltaic (PV) Technology Field Project	2

Complete a minimum of four (4) units from the following:

ES 2	Humans, the Environment and Sustainability (4)	
ES 3	Imagery of the Environment (4)	
ESCI 19	Environmental Biology (5)	
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity (2)	
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques (1)	
ESCI 53	Wildlife Corridor Technician: Data Collection (1)	
ESCI 54	Wildlife Corridor Technician: Data Analysis (1)	
ESCI 55	Wildlife Corridor Technician: Corridor Design (1)	4

Major	Energy Management and Climate Policy	50 units
GE	General Education (31-42 units)	
Electives	Elective courses req'd. when major units plus GE units total is less than 90	
	Total Units Required	.90 units

Environmental Compliance & Pollution Prevention A.A. Degree

Complete the Certificate of Achievement-Advanced plus the following for the major, and meet the A.A./A.S. degree requirements.

Certificate	Environmental Compliance and Pollution Prevention Cert. of Achievement-Advanced	40
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
ESCI 61	Introduction to Photovoltaic (PV) Technology	3

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

ES 55	Ten Steps to Effective Learning in Environmental Studies (1)	
ES 68	Community-Based Coalitions & Stakeholders (1)	
ES 70	Introduction to Energy Management Tech. (1)	
ES 80	California Field Studies (1)	
ES 85A	California Native Plants and Animals (2)	
ES 91X	Environmental Education and Nature-Based Learning (2)	
ES 91Z	Environmental Education and Nature-Based Learning (4)	
ES 95B	Environmental Studies Internship (2)	
ESCI 19	Environmental Biology (5)	
ESCI 20	Introduction to Biodiversity (5)	
ESCI 21	Biodiversity 2 (5)	5
	Total Units Required	.50

Major	Environmental Compliance and Pollution Prevention	50 units
GE	General Education (31-42 units)	
Electives	Elective courses req'd. when major units plus GE units total is less than 90	
	Total Units Required	.90 units

† This certificate was submitted for State approval. Please check with the department for the status.

Wildlife Corridor Technician

Certificate of Achievement †

The Wildlife Corridor Technician certificate requirements are also part of the Environmental Stewardship Certificate of Achievement-Advanced and Degree programs.

Complete the following and meet the corresponding certificate requirements.

ES 1	Introduction to Environmental Studies	4
ES 65	Environmental Stewardship	1
ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ES 68	Community-Based Coalitions & Stakeholders	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques	1
ESCI 53	Wildlife Corridor Technician: Data Collection	1
ESCI 54	Wildlife Corridor Technician: Data Analysis	1
ESCI 55	Wildlife Corridor Technician: Corridor Design	1
ESCI 56	Wildlife Corridor Technician: Plant Survey Techniques	1
ESCI 57	Wildlife Corridor Technician: Advanced Tracking	2
ESCI 58	Wildlife Corridor Technician: Advanced Tracking 2	4
	Total Units Required	26

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)	9
<i>Major</i>	<i>Environmental Stewardship</i>	<i>50 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>

Environmental Stewardship

Certificate of Achievement-Advanced †

Complete the requirements listed for the Wildlife Corridor Technician Certificate of Achievement plus the following, and meet the corresponding certificate requirements.

Requirements	Wildlife Corridor Technician Certificate of Achievement	26
ES 3	Imagery of the Environment	4
ES 80	California Field Studies	1
ES 85A	California Native Plants and Animals	2
ES 91X	Environmental Education and Nature-Based Learning	2
ES 95	Introduction to Environmental Careers	1
ESCI 20	Introduction to Biodiversity	5
	Total Units Required	41

Environmental Stewardship

A.A. Degree

Complete the Certificate of Achievement-Advanced plus the following for the major, and meet the A.A./A.S. degree requirements.

Certificate	Environmental Stewardship Certificate of Achievement-Advanced	41
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Complete a minimum of nine (9) units from the following:

ES 2	Humans, the Environment and Sustainability (4)
ES 6	Introduction to Environmental Law (4)
ES 55	Ten Steps to Effective Learning in ES (1)
ES 56	Environmental Health and Justice (4)
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional (4)
ES 69	Energy Reliability & Your Organization (1)
ES 70	Introduction to Energy Management (1)
ES 71	The Building Envelope (1)
ES 76	Energy Star Products (1)
ES 86	Global Field Studies (4)
ES 90	Environmental Research and Field Methods (4)
ES 91Z	Environmental Education and Nature-Based Learning (4)
ES 95B	Environmental Studies Internship (2)
ESCI 19	Environmental Biology (5)
ESCI 21	Biodiversity 2 (5)
ESCI 30	Conservation Biology (5)

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