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Cupertino, CA 95014
408-864-5678
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Academic Year
2016 - 2017

Environmental Studies

Environmental Resource Management and Pollution Prevention

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

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 Requirements

1. A minimum "C" grade in each major course.
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 (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.

Environmental Resource Management and Pollution Prevention

Certificate of Achievement

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources - air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics, and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for employment as entry-level environmental management/pollution prevention specialists in a wide range of positions and settings, including working for business/industry, government, and non-profit organizations. This certificate is the first step in a career ladder whereby students can optionally choose to continue on to then complete a Certificate of Achievement-Advanced and finally an A.A. degree.

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

- identify fundamental environmental management/pollution prevention issues and apply sustainable solutions.

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

E S 6	Introduction to Environmental Law	4
E S 50	Introduction to Environmental Resource Management and Pollution Prevention	2
E S 61A	Environmental Resource Management and Pollution Prevention: Air, Water and Land	3
E S 61B	Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste	3

Complete two (2) courses:

E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics (3)	6
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (3)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (3)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (3)	
Total Units Required		18

Environmental Resource Management and Pollution Prevention

Certificate of Achievement-Advanced

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources - air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics, and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for employment as environmental management/pollution prevention specialists in a wide range of positions and settings, including working for business/industry, government, and non-profit organizations. This certificate is the middle step in a career ladder with the first step being a Certificate of Achievement and the last (optional) step being an A.A. degree.

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

- identify both fundamental and advanced environmental management/pollution prevention issues and apply sustainable solutions.

1. Complete the Certificate of Achievement requirements. 18
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 56	Introduction to Environmental Health	4
E S 64	AB 32 (CA Global Warming Solutions Act of 2006)	1

Complete two (2) courses not previously completed for the Certificate of Achievement: 6

E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics (3)	
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (3)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (3)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (3)	
Total Units Required		29

Environmental Resource Management and Pollution Prevention

A.A. Degree

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources - air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics, and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for either employment as environmental management/pollution prevention specialists (in a wide range of positions and settings, including working for business/industry, government, and non-profit organizations) or for transfer to four-year degree programs in Environmental Studies or related majors. This degree is the last step in a career ladder with the first step being a Certificate of Achievement and the second being a Certificate of Achievement-Advanced.

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

- identify both fundamental and advanced environmental management/pollution prevention issues and apply sustainable solutions.
- understand and appreciate the broader context of their work in terms of achieving a sustainable society.

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 29
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

E S 1	Introduction to Environmental Studies	4
E S 2	Humans, the Environment, and Sustainability	4
E S 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Laboratory	1

Complete nine (9) units: 9

E S 58	Introduction to Green Building (1)	
E S 63	Agenda 21: Blueprint for Sustainability (1)	
E S 65	Environmental Stewardship (1)	
E S 66	Environmental Leadership (1)	
E S 67	Environmental Team-Building (1)	
E S 68	Community-Based Coalitions and Stakeholders (1)	
E S 70	Introduction to Energy Management Technology (1)	
E S 76	Energy Star Products (1)	
E S 76A	Solar Thermal Systems (1)	
E S 79	Renewable and Alternative Energy Systems (1)	
ESCI 61	Introduction to Photovoltaic (PV) Technology (3)	
ESCI 63	Photovoltaic (PV) Technology Field Project (2)	

<i>Major</i>	<i>Environmental Resource Management and Pollution Prevention</i>	52
<i>GE</i>	<i>General Education (31-42 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
Total Units Required		90