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Cupertino, CA 95014  
408-864-5678  
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Academic Year  
**2018 - 2019**

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

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.

## 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 and 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 or pollution prevention specialists in a wide range of positions and settings, including working for business, government and nonprofit organizations. This certificate is the first step in a career ladder whereby students can optionally choose to later complete a Certificate of Achievement-Advanced and finally an A.A. degree.

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

### Complete two courses: 8

E S 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)	
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (4)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (4)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (4)	

**Total Units Required ..... 19**

## 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 and 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 or pollution prevention specialists in a wide range of positions and settings, including working for business, government and nonprofit 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.

*Program 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. 19
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 64	California's Approach to Global Warming/Global Climate Change	2
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**Complete two courses not previously completed for the Certificate of Achievement: 8**

E S 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)	
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (4)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (4)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (4)	
<b>Total Units Required .....</b>		<b>29</b>

## 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 and 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 or pollution prevention specialists (in a wide range of positions and settings, including working for business, government and nonprofit 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.

*Program 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 6	Introduction to Environmental Law	4
E S 56	Introduction to Environmental Health	4
E S 58	Introduction to Green Building	1
E S 61L	Environmental Resource Management and Pollution Prevention Laboratory	1
E S 63	Agenda 21: Blueprint for Sustainability	1
E S 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Laboratory	1

*Major Environmental Resource Management and Pollution Prevention 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**