



Environmental Resource Management and Pollution Prevention

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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

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 EWRT IA or EWRT IAH 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
E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics	2
E S 62B	Environmental Management Tools: Environmental Impact Reports (EIRs)	2
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs)	2
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles	2
Total Units Required.....		20

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 course requirements. 20
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 56 Introduction to Environmental Health 4

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

- E S 58 Introduction to Green Building (1)
 - E S 63 Agenda 21: Blueprint for Sustainability (1)
 - E S 64 AB 32 (CA Global Warming Solutions Act of 2006) (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 79 Renewable and Alternative Energy Systems (1)
- Total Units Required.....28**

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 course requirements for the Certificate of Achievement and the Certificate of Achievement-Advanced. 28
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

ESCI 61 Introduction to Photovoltaic (PV) Technology 3

ESCI 63 Photovoltaic (PV) Technology Field Project 2

Complete the five (5) courses from the following not previously completed for the Certificate of Achievement-Advanced: 5

E S 58 Introduction to Green Building (1)

E S 63 Agenda 21: Blueprint for Sustainability (1)

E S 64 AB 32 (CA Global Warming Solutions Act of 2006) (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 79 Renewable and Alternative Energy Systems (1)

Major Environmental Resource Management and Pollution Prevention 52 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