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Academic Year  
**2020 - 2021**

Environmental Studies

# Facility and Sustainable Building Management

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

Find your counselor at  
deanza.edu/our-counselors

Please visit the Counseling and Advising 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.

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

### Certificate of Achievement-Advanced Requirements

- Completion of all major courses with a C grade or higher.
- Demonstrated proficiency in mathematics and English as evidenced by eligibility for MATH 114 and eligibility for any of the following: EWRT 1A, EWRT 1AH, EWRT 1AS with EWRT 1AT, or ESL 5.

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. 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.

## Facility and Sustainable Building Management

### Certificate of Achievement

#### Certificate of Achievement-Advanced

#### A.S. Degree

The interdisciplinary Facility and Sustainable Building Management certificates and degree align with the requirements set by the facility management industry for qualified facility management professionals. Students will be educated and provided on-the-job work experience. Students will understand the cross-functional aspects of a successful facility manager and will be further educated on the roles facility managers play, the basics of building operations and maintenance, building sustainability and work management within the facility manager job function. The International Facility Management Association (IFMA) estimates the average age of practicing facility managers is more than 49 years old. IFMA also forecasts that 30% to 50% of practicing facility managers will retire within the next 10 years. This indicates a pending employment gap and a need for younger, well-educated and qualified facility management professionals. IFMA has turned to California community colleges to help fill this gap. The Facility and Sustainable Building Management certificates and degrees will prepare students for careers in building sustainability, space planning, environmental health and safety, energy efficiency, sustainable landscaping, real estate, property management, human resources and other business-related job functions such as marketing, sales and accounting.

### Certificate of Achievement

*Program Learning Outcomes: Upon completion, students will be able to*

- Assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession

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

BUS 56	Human Relations in the Workplace	5
BUS 65	Leadership	5
BUS 85	Business Communication	3
ES 58	Introduction to Green Building	1
ES 69A	Introduction to Facilities Management	3
ES 70	Introduction to Energy	1
ES 71	Introduction to Sustainable Buildings	1
ES 78	Introduction to Energy Management Systems and Controls	1
ES 82	Project Management and Technical Report Writing for Energy Professionals	2
<b>Total Units Required</b> .....		<b>22</b>

**Certificate of Achievement-Advanced**

*Program Learning Outcomes: Upon completion, students will be able to*

- Assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession
- Analyze and understand the basics of building management and energy efficiency systems

1. Complete the Certificate of Achievement requirements. 22
2. Meet the requirements for this certificate level.
3. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
BUS 10	Introduction to Business	5
ES 81	Leadership in Energy and Environmental Design/Sustainability Codes	2
ES 83	Energy Management Return on Investment	2
<b>Total Units Required .....</b>		<b>36</b>

**A.S. Degree**

*Program Learning Outcomes: Upon completion, students will be able to*

- Assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession
- Analyze and understand the basics of building automation and sustainable building systems
- Understand the cross-functional nature of the successful facility manager and be able to identify internal and external stakeholders
- Demonstrate the ability to track internal and external customer relationships in facility management

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 36
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

**Complete 14 units: 14**

ACCT 88	Excel Spreadsheets for Accounting (2)
ACCT 105	Basic Financial Accounting Procedures (1)
BUS 96	Principles of Management (5)
CIS 3	Business Information Systems (4.5)
CIS 79	Managing Technology Projects (4.5)
ES 4	Energy, the Environment, and Society (4)
ES 51A	Sustainable Energy Systems (4)
ES 51B	Energy Efficient Buildings (3)
ES 51C	Building Automation Systems (2)
ES 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)
ES 64	Climate Change Mitigation and Adaptation in California (4)
ES 69	Energy Management Within Your Organization (1)
REST 50	Real Estate Principles (4)
REST 53	Real Estate Finance (4)

*Major Facility and Sustainable Building Management 50*

*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**