

Associate in Science (A.S.) Degree

Facility and Sustainable Building Management

Program Description

The interdisciplinary Facility and Sustainable Building Management degree aligns 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.

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

Associate Degrees (A.A. or A.S.) Requirements

- Completion of all requirements for one of the General Education (GE) patterns listed at deanza.edu/articulation/ge-requirements. Students using the De Anza GE or CSU GE pattern must earn an overall GPA of at least 2.0 for required GE courses. Students using the IGETC pattern must earn a grade of C or higher for each required GE course.
- 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.
- Completion of at least 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).
- At least 24 quarter units must be earned at De Anza College

Program Requirements

IMPORTANT NOTE: Some courses have prerequisites; see the college catalog for more information.

IMPORTANT NOTE: Some courses have a cross-listed and/or honors version. Students will receive credit for only one version of the course.

Required Core - Certificate of Achievement: (25 Units)

Course	Title	Units
BUS 56	Human Relations in the Workplace	5
BUS 65	Leadership	5
BUS 85	Business Communication	3
E S 58	Introduction to Green Building	1
E S 69A	Introduction to Facilities Management	3
E S 70	Introduction to Energy Science	2
E S 71	Introduction to Sustainable Buildings	2

Course	Title	Units
E S 78	Introduction to Energy Management Systems and Controls	2
E S 82	Project Management and Technical Report Writing for Energy Professionals	2

Required Core - Certificate of Achievement-Advanced: (15 Units)

Course	Title	Units
ACCT 1A / ACCT 1AH	Financial Accounting I or Financial Accounting I - HONORS	5
BUS 10	Introduction to Business	5
E S 81	Sustainable Building Assessments and Codes	3
E S 83	Energy Management Return on Investment	2

List A: (10 Units)

Course	Title	Units
ACCT 88	Excel Spreadsheets for Accounting	2
ACCT 105	Basic Financial Accounting Procedures	1
BUS 49	Management	5
CIS 3	Business Information Systems	4.5
CIS 79	Managing Technology Projects	4.5
E S 4	Energy, the Environment, and Society	4
E S 51A	Sustainable Energy Systems	4

Course	Title	Units
E S 51B	Energy Efficient Buildings	3
E S 51C	Building Automation Systems	2
E S 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting	4
E S 64	Climate Change Mitigation and Adaptation in California	4
E S 69	Introduction to Energy Management	2
REST 50	Real Estate Principles	4
REST 53	Real Estate Finance	4

Major Required: 50 Units

Additional completion of one of the following general education patterns: De Anza General Education, CSU General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC) AND electives as needed to reach at least 90 units

Total Required: 90 Units

