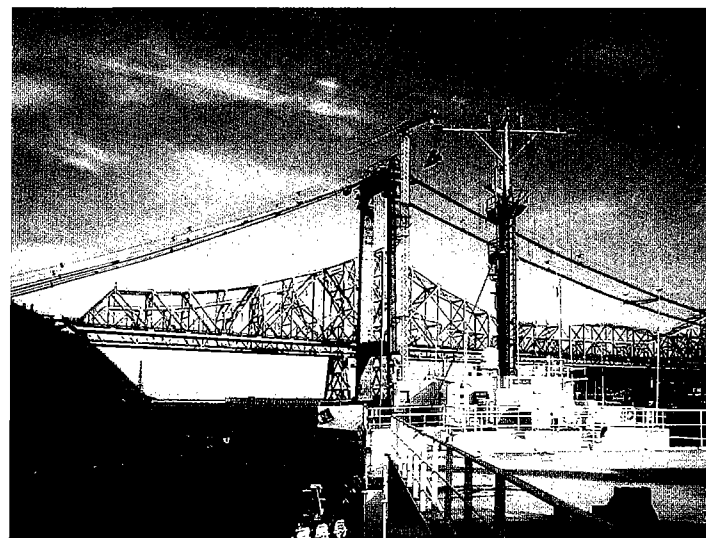




# Bachelor of Science in Facilities Engineering Technology



## ABET Accreditation

The FET program at Cal Maritime is the only such program in the country fully accredited by the Technology Advisory Commission of the Accreditation Board for Engineering & Technology (ABET). This means that your degree will be respected by industry and higher education academic institutions.

## Career Fields


FET graduates accept jobs in shore-side industries in power plants, hospitals, industrial and manufacturing plants and semiconductor facilities. Other career fields in the industry include:

- Aerospace industry
- Combustion operation
- Diesel mechanics
- Field service operations
- Healthcare industry
- Industrial processing and manufacturing
- Management
- Nuclear power industry
- Petrochemical consulting
- Power plant design and operations
- Quality assurance
- Stationary power and energy systems
- Systems

*For more information on the California Maritime Academy's program in Facilities Engineering Technology, contact:*

Professor Larry Asera, Department of Engineering Technology  
California Maritime Academy, 200 Maritime Academy Drive,  
Vallejo, CA 94590 lasera@csum.edu 707.654.1116

Or visit us on the Web at:  
[www.csum.edu](http://www.csum.edu)

  
**CAL MARITIME**  
 Office of Admission  
 The California Maritime Academy  
 200 Maritime Academy Drive  
 Vallejo, CA 94590-8181



# Facilities Engineering Technology

Facilities Engineering Technology (FET) graduates operate, maintain and manage engineering plants and facilities. The goal of the Bachelor of Science degree in Facilities Engineering Technology is to provide students with the skills and knowledge necessary to successfully assume positions of responsibility in the management of people and facilities. In California, energy and power are vital to the state's economic base. CMA will provide you the necessary expertise to work in these fields.

Candidates for this degree with an emphasis in Facilities Management or Facilities Operations must complete a rigorous curriculum comprised of 168 semester units of coursework. The program covers all aspects of energy systems, from mechanical and electrical systems, to air conditioning and ventilation systems, to management of people and facilities.

Emphasis in the FET program is placed on applied practice combined with analytical methods.



## Hands-On Training

The California Maritime Academy is an accredited four-year institution, which is technical in nature. In addition to required classes in FET, all students receive hands-on training and experience in main and auxiliary engineering systems.

Each summer, FET students must complete two months of practical training. The first summer is spent learning engineering systems aboard the Training Ship GOLDEN BEAR, and the following two summers working with practicing facilities engineers at local companies. The summer Co-op student earns 8 CSU-semester units and also earns between \$12 to \$18 per hour for their work-study experience. Co-op students have worked at such facilities as Genentech, LucasFilm, Marine World, Monterey Aquarium, Livermore Lab, American President Lines, and Crockett Co-generation Power Plant.

## Curriculum

The course categories and the number of units required in each category are listed below. The Bachelor of Science Degree Program is 168 units.

English Communications	9 units
Humanities & Social Science	18
Mathematics	12
Physical Sciences	12
Technical Sciences	26
Technical Specialties	29
Technical Electives	24
Professional Training	38

*Must maintain GPA 2.0 in Major*

## Labs

For a more complete understanding of the mechanics and operation of engineering plants and facilities, the following lab classes contribute to and enhance the learning experience:

- Automation and controls
- Chemistry
- Electricity
- Facility Maintenance
- HVAC/Refrigeration
- Manufacturing processes
- HVAC/Refrigeration
- Physics
- Welding

## Simulator Training

- Diesel Generators
- Facility Power Plant
- Steam Power Systems

## Certificate

Upon completion of a bachelor of science degree and successful completion of a certificate exam administered by the Association for Facilities Engineering, FET graduates receive a Certified Plant Engineer-In Training Certificate.

## AFE Student Chapter

The student chapter of the Association for Facilities Engineering (AFE) is one of the largest and most active chapters in the country. AFE provides scholarships and professional development opportunities to its student members.

