Marine Engineering

Degree awarded: Bachelor of Engineering

Professional experience available: Engine License only

The Marine Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Marine Engineering is the oldest engineering program at the Maritime College. It is a broad field focused on the design and operation of marine and industrial power plants. It is heavily oriented toward thermal/fluid sciences due to the emphasis on energy use and conservation, and requires knowledge of mathematics, applied mechanics, electrical engineering and a practical orientation for problem solving. U.S. Coast Guard Engine Licensure as an engineering officer is required. The annual Summer Sea Term, a highly structured, intensive application of a cadet's engineering knowledge, is an integral part of this program. The Marine Engineering program focuses on thermal power systems, applied mechanics, and electrical machinery, power electronics and control.

The educational objectives of this program are for graduates (1) to become engineers who have the ability to practice the design, service, or operation of marine or industrial power systems, and *(2) to have the ability to take professional leadership positions that require an extensive engineering background*

Student Outcomes

Marine Engineering graduates from Maritime College will possess:

(a) an ability to apply knowledge of mathematics, science and engineering

(b) an ability to design and conduct experiments, as well as to analyze and interpret data

(c) an ability to design a system, component or process to meet desired needs within realistic constraints such as economics, environmental, social, political, ethical, health and safety, manufacturability and sustainability

(d) an ability to function on multi-disciplinary teams

(e) an ability to identify, formulate and solve engineering problems

(f) an understanding of professional and ethical responsibility

(g) an ability to communicate effectively

(h) the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and societal context

(i) a recognition of the need for, and an ability to engage in life-long learning

(j) a knowledge of contemporary issues

(k) an ability to use the techniques, skills and modern engineering tools necessary for engineering practice

Student Enrollment and Graduation Data

Academic Year	Enrollment Year†					Full- or Part-Time	Total Undergrad	B.E. Degrees Awarded
	1st	2nd	3rd	4th	5th			
Latest year 2015-16	32	27	20	11	7	FT	97	22
						PT	0	
1 2014-15	31	21	13	13	4	FT	81	25
						PT	1	
2 2013-14	32	17	16	16	6	FT	86	27
						PT	1	
3 2012-13	20	24	19	18	10	FT	91	22
						PT	0	
4 2011-12	39	15	18	16	7	FT	94	20
						PT	1	

† Enrollment Year data are not broken out based on FT/PT status but totals numbers are.