

Mechanical Engineering

Degree awarded: Bachelor of Engineering

Professional experience available: Engine License, Intern Option

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



Mechanical Engineering at Maritime is focused on the design of innovative mechanisms, to assure they operate correctly and are sufficiently robust. This discipline requires a firm foundation in applied mechanics, mathematics, fluid mechanics, electrical engineering and a practical, tangible orientation for design. Mechanical Engineering is the third of the three programs approved by the New York State Education Department in 2002. It is designed to permit a student to experience two Industrial Internships, or to obtain a U.S. Coast Guard License as Third Assistant Engineer by taking Summer Sea Term I, II & III.

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 mechanical systems, and (2) to have the ability to take professional leadership positions that require an extensive engineering background

Student Outcomes

Mechanical 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	99	82	75	29	23	FT	299	38
						PT	9	
1 2014-15	93	80	36	53	19	FT	275	58
						PT	6	
2 2013-14	14	9	20	21	13	FT	253	31
						PT	5	
3 2012-13	61	58	41	36	16	FT	208	33
						PT	4	
4 2011-12	73	54	53	15	9	FT	202	18
						PT	8	

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