

Electrical Engineering

Degree awarded: Bachelor of Engineering

Professional experience: Engine License, Deck License, Intern Option

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



Electrical Engineering at Maritime is focused on the generation, transmission, control and use of electrical power. The advent of electronic control of large electrical machinery has revolutionized marine engineering and ship design. Students in this program must be well versed in the electrical sciences, mathematics and the sciences, and have a special ability to think abstractly. Electrical Engineering was approved by the New York State Education Department in 2002. It is designed to permit a student to pursue two Industrial Internships. A student may pursue a U.S. Coast Guard License as Third Assistant Engineer or Third Mate 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 electrical systems or electrical power systems, and (2) to have the ability to take professional leadership positions that require an extensive engineering background

Student Outcomes

Electrical Engineering graduates at 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 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	37	24	32	25	12	FT	124	24
						PT	6	
1 2014-15	35	31	35	16	8	FT	123	14
						PT	2	
2 2013-14	33	35	19	13	11	FT	109	11
						PT	2	
3 2012-13	38	27	17	11	5	FT	96	15
						PT	2	
4 2011-12	30	24	18	14	6	FT	89	10
						PT	3	

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