

State University of New York Maritime College



Degrees and Majors Descriptions

Students complete a rigorous eight-semester academic program and up to three summers of hands-on “professional” experience. Students may also pursue a United States Coast Guard Third Officer’s License.

Bachelor of Engineering

Marine Engineering

Marine engineering students study higher math and science and learn ship and watercraft design. Students also examine numerous engineering problems that relate to watercraft. The marine engineering major focuses on key elements of mechanical, electrical, chemical, environmental and industrial engineering as well as design.

Mechanical Engineering

Mechanical engineering students study the principals of physics as they apply to design and mechanical systems. One of the oldest and most far-reaching of engineering programs, mechanical engineering focuses on mechanical, thermal and electrical engineering science and design.

Electrical Engineering

The field of electrical engineering concentrates on electromagnetism, electronics and electricity. Electrical engineering students study the generation and distribution of electric power and the automation and control of commercial systems and design. Power, telecommunications, signal processing and control systems are covered in this field.

Facilities Engineering

The facilities engineering concentration encompasses engineering design as well as mechanical, electrical and industrial engineering.

Naval Architecture

Naval architecture teaches the design of ships and sea-based structures. Students concentrate on the study and design of commercial ships, small craft, naval vessels and offshore structures. Technical, economic and creative facets of ship design are examined.

Bachelor of Science

Marine Environmental Science

The marine environmental science major is designed to provide students with a strong multi-disciplinary scientific background and laboratory skills in physical, earth and life sciences. Fundamental courses include biology, chemistry, physics, geology, oceanography, meteorology and mathematics along with specialized classes in environmental chemistry, environmental pollution and environmental law.

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Degrees and Majors Descriptions

Marine Transportation

Students in marine transportation study management, international business, transportation and logistics as well as vessel operations. Minors in ship management or intermodal and maritime security complement this major.

General Marine Business & Commerce with Humanities Concentration

This degree combines coursework from the humanities and marine transportation programs to form the general marine business & commerce with humanities concentration major.

Marine Operations

The Marine Operations major is directed to students who plan a professional career in the international maritime industry. It is a highly specialized program that prepares students in all aspects of marine operations afloat. Graduates who choose to work ashore have found successful careers in facilities management.

International Transportation & Trade (ITT)

The international transportation and trade major focuses on the global nature of the maritime industry. Students who select the international transportation and trade major may elect to minor in intermodal & maritime security as a complementary program.

Maritime Studies

The Bachelor of Science in maritime studies is a multi-faceted inter-disciplinary program that combines business, science and humanities.

Bachelor & Master of Science in International Transportation Management

Select students may enroll in a five-year course of study leading to a Bachelor and Master of Science degree.

Associate in Applied Science

Marine Technology in Small Vessel Operation

Two-year Associate's program to obtain a limited tonnage U.S. Coast Guard Deck or Engine license.