

Nautical Science

Eolaíocht Loingseoireachta

Location: National Maritime College of Ireland, Ringaskiddy, Co Cork

Application: CAO

CAO Code: MT 766

NFQ Level: 7

Award Title: Bachelor of Science in Nautical Science

Duration: 3 and a half years including seetime

Places: 48



Entry 2023			
SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS 5 SUBJECTS			
SUBJECTS 06/H7	SUBJECTS H5	MATHS GRADE	ENGLISH OR IRISH GRADE
5	0	06/H7	06/H7

Applicants must pass the approved medical fitness and eyesight tests as specified by the Irish Maritime Administration of the Department of Transport, and are strongly advised to attend a career advisory session. For further information, please visit the Admissions section in this prospectus.

Overview

Nautical Science has three main elements: navigation, cargo operations, and ship operations. In other words, the control of a ship; the safe operation of a ship, including the protection of life and the environment; Shipboard administration, and the handling, loading and care of cargoes which may be as diverse as petroleum products, general cargo, or thousands of new cars or passengers.

This course is designed for those who wish to pursue a career as a deck officer aboard ship. It provides a comprehensive education in navigation and other ship board activities. Students who successfully complete year 1 can expect to be placed on a series of commercial ships in year 2, gaining between twelve and fifteen months seetime for practical training experience, and to gain the necessary 'seetime' for the Department of Transport Certificate of Competency and professional examinations. In addition, students must complete a comprehensive workplace training programme including training records, journals and other documents associated with the training programme, as specified from time to time.

It should be noted that while every endeavour will be made to secure a suitable sea training berth, this is outside the control of MTU/NMCI and the College cannot accept responsibility for difficulties in securing such a berth.

Further Studies

Suitably qualified Nautical Science graduates may continue their studies and obtain the BSc (Honours) Nautical Science degree and Chief Mate professional qualification, as an add-on year and continue to obtain the professional qualification of Master Unlimited.

Question Time

How do I go about getting a training berth to sponsor me while I am in college?

Securing a cadet berth at sea is a competitive process managed by NMCI, with shipping companies. Students secure a berth based on their performance at NMCI. The number of cadet berths varies each year, depending on shipping company requirements. NMCI has a strong track record in securing cadet berths, however they are not guaranteed.

Do I have to work for the sponsoring shipping company once I graduate?

The commitment from the sponsoring company usually ends upon graduation. However, a significant number of graduates go on to work as an officer with their sponsors.

How much sea going experience do I need before I can apply to sit for a Master's Certificate of Competency?

A minimum of 36 months sea service is required to progress to Master Unlimited. With leave and further study requirements, this sea service typically takes eight years to complete.

Contact Information

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For details, see www.nmci.ie



Career Opportunities

Graduates first become officer of the watch on a vessel after graduating and passing relevant examinations. They can advance to chief mate or ship's captain with further study, examinations, and seetime. Career opportunities exist on a range of different types of ocean going vessels: bulk carriers, oil tankers, container ships, cruise and ferry vessels. There are also careers on specialist vessels, such as seismic and exploration ships, pilot vessels, tugs, and mega yachts.

- Ship's officer (from junior ranks to captain)
- Harbour master/pilot
- Marine surveyor
- Maritime studies lecturer



First Year at a Glance

- Navigation & Meteorology: an introduction to both celestial and terrestrial navigation, together with an understanding of meteorology, as it relates to the seafarer
- General Ship Knowledge: elements of ship construction, stability and cargo operations
- Applied Nautical Science: the application of science and physics as it relates to the marine environment
- Seamanship: the theory and practice of seamanship, having regard to safe working practices
- Introduction to Shipboard Safety: includes short-course elements relating to fire-fighting, sea survival, and first aid training
- Bridge Watchkeeping: an introduction to the theory and practice of keeping a safe navigational watch, having regard to the International Regulations for the Prevention of Collisions at Sea

