



UNIVERSITY OF NAPLES
"PARTHENOPE"

Department of Science and Technology



COURSE LEADER
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Department of
SCIENCE AND TECHNOLOGY

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UNIVERSITY OF NAPLES
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First-level Degree Course

Nautical and Aeronautical Sciences
(Class L-28)

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COURSE OVERVIEW

The degree course in Nautical and Aeronautical Science at Parthenope University is unique in Italy and keeps up the historical and cultural tradition of the former Naval University Institute, which was set up in Naples by a Royal Decree in 1919 for the dissemination and promotion of Nautical Sciences. Moving from these historical and cultural roots, the degree course aims to offer a first-rate training in the fields of maritime and aerial navigation, meteorology and oceanography.

The syllabus is organized around core modules pertaining to the physical-mathematical and IT areas, and distinguishing modules, which provide a more specific professional training in the fields of maritime, terrestrial and aerial navigation, meteorology and oceanography. The primary objective of the degree course is to prepare graduates with a good scientific grounding in the above-mentioned subjects, along with the mastery of techniques and tools used in different cultural fields. The course also introduces them to the study of connected business and productive contexts through internships and apprenticeships in related companies where they can explore both technical-scientific and management-organizational aspects. Graduates in Nautical Sciences are usually employed in the sector of maritime navigation, port activities, technical management of ships and shipping companies; in the field of aerial navigation, air traffic control and related airport services; in the sector of coastal and marine environment management and control; in survey activities.

CAREER PROSPECTS

Navigation and Sea Technicians

Graduates can find occupation:

- in the sector of general maritime navigation, as officers on watch on merchant ships, once they have registered as seafarers, or as managers for the operation and management of ships;
- in the field of survey techniques for the acquisition, process and representation of geodetic, hydro-graphical and topographical data;
- in the meteorological and oceanographic sectors, carrying out oceanographic campaigns and processing and interpreting oceanographic and meteorological data, aimed to a proper management and protection of coastline and marine resources.

Management Technicians and Air Traffic Controllers

They can work as flight assistants and air traffic controllers, as well as in the management of airport operations and flight safety.

SYLLABUS

The first-level degree course in Nautical and Aeronautical Sciences, the only one in Italy, is a three-year programme (totalling 180 ECTS credits) and consists of 20 exams, an oral English examination, a 225h internship with companies or research institutions, and a final examination. The course is structured into semesters and offers three cultural areas of specialization:

- Navigation and survey
- Meteorology and oceanography
- Flight management and safety

Students are asked to choose their area of specialization at the beginning of the second year.

SYLLABUS

Year I	ECTS
Calculus I	9
General Chemistry	6
Navigation (maritime and air) Law	6
English Language	3
Physics I	9
Marine Geology	9
Introduction to Computer Science with Lab	6
Year II	
Calculus II	6
Physics II	6
Flight Mechanics	9
Elective Module	9
Numerical Analysis and Applied Mathematics	6
Geodesy and Navigation	9
Naval Architecture and Stability	9
Estimation Techniques for Survey and Navigation	6
Year III	
Numerical Cartography and GIS	6
Meteorology	9
Oceanography	9
Radio Navigation	9
Elective Module	9
Elective Module	6
Internship and Apprenticeship	9
Further Studies	6
Final Examination	9

For further Information, visit our website:
www.scienzeetecnologie.uniparthenope.it