Study programmes

The main objective of the Barcelona School of Nautical Studies of Barcelona (FNB) is to educate highly skilled professionals in the maritime field, providing a solid technological and scientific training. The academic year 2010-2011 the Barcelona School of Maritime Studies began with the new degrees adapted to the European Higher Education Area. Now we offer the following degrees and masters:

**Bachelor's degrees:**

- Bachelor's degree in Marine Technologies
- Bachelor's degree in Nautical Sciences and Maritime Transport
- Bachelor's degree in Systems Engineering and Naval Technology

**Master's degrees:**

- Master's degree in Management and Operation of Marine Energy Facilities
- Master's degree in Nautical Sciences and Maritime Transport Management
- Master's degree in Naval Architecture and Ocean Engineering

The bachelor’s degree in Marine Technologies provides a solid grounding in the operation, maintenance and management of power plants and ship systems, and in the design, reengineering and construction of vessels. This degree is taught in Spanish.

This bachelor’s degree includes a Major in Marine Electrotechnics, in which students develop the knowledge and skills required to work as an electro-technical officer. They learn about electrical systems, automatic control and computer networks, radio navigation equipment, radio communication systems and other specialised topics. This major is taught in Spanish.

[http://www.upc.edu/learning/courses/Bachelors-degrees/marine-engineering-barcelona-fnb](http://www.upc.edu/learning/courses/Bachelors-degrees/marine-engineering-barcelona-fnb)

The bachelor’s degree in Nautical Sciences and Maritime Transport provides students with the knowledge and skills needed for optimal management of navigation manoeuvres, safety and pollution prevention, special cargoes, radio-electronic systems, and other specialised matters.

This bachelor’s degree includes a Major in Maritime Business and Port Logistics, in which students learn how the agents involved in maritime business and port logistics operate, focusing on a range of subjects, including management, planning, legislation, economics, international maritime business and short sea shipping. This major is taught entirely in English.


The bachelor’s degree in Systems Engineering and Naval Technology provides students with the knowledge and skills required to work as an expert on ship propulsion and systems. This degree is taught in Spanish.
The master's degree in Management and Operation of Marine Energy Facilities gives students the knowledge and skills to design, plan, operate, maintain and manage marine facilities, covering the main safety, environmental and economic considerations in marine engineering from an interdisciplinary perspective. The course qualifies graduates to practise the regulated profession of chief engineer in the merchant navy. This master’s degree is taught in Spanish.

The master's degree in Nautical Sciences and Maritime Transport Management provides high-level skills in the knowledge areas linked to nautical engineering and maritime transport: the structure and behaviour of ships at sea, maritime transport logistics and environmental management. The course qualifies graduates to practise the regulated profession of merchant navy captain. This master’s degree offers some courses in English.

The master's degree in Naval Architecture and Ocean Engineering, introduced in the 2017-2018 academic year, qualifies you to practise the regulated profession of naval architecture and ocean engineer. It gives you the knowledge you need to design, build, maintain and assess ships and vessels of all kinds, as well as platforms and devices for the use of ocean resources. You will also be trained in the management and supervision of maritime businesses. You can take one of the following specialisations: Yacht and Pleasure Craft Design or Ocean Energies.

DETAIL OF THE COURSES IN ENGLISH—ACADEMIC YEAR 2019-20

- Bachelor’s degree in Marine Technologies and Naval Engineering


- Bachelor’s degree in Nautical Sciences and Maritime Transport


<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>280638</td>
<td>Maritime Technical English (Q2 Spring semester)</td>
<td>6</td>
</tr>
<tr>
<td>280649</td>
<td>Marine Pollution and Sustainability (Q5 Fall semester)</td>
<td>6</td>
</tr>
<tr>
<td>280684</td>
<td>Automatic Control Systems and Informatics Network of the Ship (Q7/Q8 Spring and Fall Semester)</td>
<td>6</td>
</tr>
<tr>
<td>280645</td>
<td>Fluid Mechanics (Q2 Spring semester)</td>
<td>6</td>
</tr>
<tr>
<td>280638</td>
<td>Maritime Technical English (Q2 Spring semester)</td>
<td>6</td>
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</tbody>
</table>
280613 English for Maritime Navigation (Q3 Fall semester) 9 ECTS
280624 Radio-communications (Q6 Fall Semester) 6 ECTS
280679 Agents and documentation of supply chains (Q8 Spring semester) 6 ECTS
280678 International Maritime Business (Q7 Fall semester) 6 ECTS
280680 Maritime Legislations, Regulations and Economy (Q8 Spring semester) 6 ECTS
280681 Port Management and Planning of Transport (Q8 Spring semester) 6 ECTS
280682 Short Sea Shipping (Q7 Fall semester) 6 ECTS

This bachelor’s degree includes a **Major in Maritime Business and Port Logistics** that is taught entirely in English.

- **Master’s degree in Nautical Sciences and Maritime Transport Management**
  (semi-presential, e-learning)
  

  - 280707 Leadership and maritime business management (Q1 Fall semester) 5 ECTS
  - 280714 Management and planning of safety on navigation (Q1 Fall semester) 5 ECTS
  - 280715 Advanced Ship Manoeuvring (Q1 Fall semester) 5 ECTS
  - 280716 Ship Dynamics (Q1 Fall semester) 5 ECTS
  - 280710 Propulsion and Auxiliary Systems (Q2 Spring semester) 5 ECTS
  - 280711 Technical Maritime Documentary English (Q2 Spring semester) 5 ECTS
  - 280712 Management of Port Terminals (Q2 Spring semester) 5 ECTS
  - 280713 Logistics and Management of Maritime and Intermodal Transport (Q2 Spring semester) 5 ECTS
  - 280709 IMDG and Stowage (Q2 Spring semester) 5 ECTS

- **Master’s degree in Marine Engineering**
  (semi-presential, e-learning)

  - 280708 Advanced Control of marine systems (Q3 Fall semester) 5 ECTS

- **Master’s degree in Naval Architecture and Ocean Engineering**

  - 280813 Design of offshore platforms and structures (Q3 Fall semester) 5 ETCS
  - 280823 Mooring Systems (Q3 Fall semester) 5 ETCS
  - 280821 Marine Foundations (Q2 Spring semester) 5 ETCS
  - 280645 Fluid mechanics; Q2, 6ECTS, Marine technologies Degree
For a full list of the courses offered in English, see the document in the link below:

Courses in English [8]

Source URL: https://www.fnb.upc.edu/content/academic-information

Links
[1] https://www.fnb.upc.edu/content/academic-information