

# Bachelor's degree in Nautical Science and Maritime Transport

The **bachelor's degree in Nautical Science and Maritime Transport** will provide you 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. You will also get a good grounding in meteorology, computer representation and design techniques, maritime legislation and regulations, and the organisation, management, marketing and financing of maritime businesses. You can choose between two majors:

## Major in On-Board Practicals

You will be assigned to a merchant ship as a trainee to complete part of the work experience component required to qualify as a merchant marine pilot.

## Major in Maritime Business and Port Logistics

You will 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 in English.

## Majors

- On-Board Practicals
- Maritime Business and Port Logistics

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### GENERAL DETAILS

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#### Duration

4 years

#### Study load

240 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.

#### Delivery

Face-to-face

#### Language of instruction

Check the language of instruction for each subject (and timetable) in the course guide in the curriculum.

Information on [language use in the classroom and students' language rights](#).

#### Fees and grants

Approximate fees per academic year: €1,107 (€2,553 for non-EU residents). [Consult the public fees system based on income \(grants and payment options\)](#).

#### Location

[Barcelona School of Nautical Studies \(FNB\)](#)

#### Official degree

[Recorded in the Ministry of Education's degree register](#)

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### ADMISSION

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## Places

50

## Registration and enrolment

[What are the requirements to enrol in a bachelor's degree course?](#)

## Legalisation of foreign documents

All documents issued in non-EU countries must be [legalised and bear the corresponding apostille](#).

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## PROFESSIONAL OPPORTUNITIES

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### Professional opportunities

- Marina management.
- Inspection of fishing vessels.
- Maritime traffic control.
- Legal assessment in maritime law.
- Shipping agencies.
- Technical and management positions at state ports.
- Safety inspection.
- Technical positions with cargo handling companies.
- Pilotage.
- Teaching.

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## ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

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### Academic calendar

[General academic calendar for bachelor's, master's and doctoral degrees courses](#)

### Academic regulations

[Academic regulations for bachelor's degree courses at the UPC](#)

### Language certification and credit recognition

Queries about [language courses and certification](#)

Barcelona School of Nautical Studies (FNB)

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## CURRICULUM

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Subjects	ECTS credits	Type
<b>FIRST SEMESTER</b>		
Fundamentals of Mathematics I	6	Compulsory
Graphic Expression	6	Compulsory
Informatics	6	Compulsory
Introduction to Nautical Sciences	6	Optional
Maritime Legislation	3	Compulsory
Physics	9	Compulsory
<b>SECOND SEMESTER</b>		
Business Management and Organisation	6	Compulsory
Chemistry	6	Compulsory
Fundamentals of Mathematics II	6	Compulsory

<b>Subjects</b>	<b>ECTS credits</b>	<b>Type</b>
Maritime Economy, Shipping Business and on Board Human Resource Management	6	Compulsory
Maritime Technical English	6	Compulsory
<b>THIRD SEMESTER</b>		
Business Communication	6	Optional
Coastal Navigation	6	Compulsory
Construction of Recreational Craft	6	Optional
Innovation Management	6	Optional
Management Abilities	6	Optional
Marine Data and Information Processing Using Matlab	6	Optional
Maritime Medicine	3	Compulsory
Naval Construction	6	Compulsory
Naval Electricity and Electronics	6	Compulsory
Production Methods with Composite Materials	6	Optional
Project Management	6	Optional
Technical English for Maritime Navigation	9	Compulsory
Technical Inspection of Recreational Craft	6	Optional
<b>FOURTH SEMESTER</b>		
Automatic Regulation and Control	4.5	Compulsory
Electronic Aids to Navigation	7.5	Compulsory
Ship Theory	6	Compulsory
Stowage	12	Compulsory
<b>FIFTH SEMESTER</b>		
Marine Pollution Prevention and Sustainability	6	Compulsory
Maritime Safety & Security	6	Compulsory
Regulation, Ship Operation and Logistics	9	Compulsory
Ship Theory and Naval Construction	9	Compulsory
<b>SIXTH SEMESTER</b>		
Celestial Navigation	6	Compulsory
Health and Safety at Work	4.5	Compulsory
Manoeuvring and Regulations	9	Compulsory
Radio Communications	6	Compulsory
Routes & Compasses	4.5	Compulsory
<b>SEVENTH SEMESTER</b>		
Nautical Meteorology and Oceanography	7.5	Compulsory
Transport of Dangerous, Hazardous and Harmful Goods	4.5	Compulsory
Work Placement	30	Compulsory
<b>EIGHTH SEMESTER</b>		
Agents and Documentation of Supply Chains	6	Compulsory

<b>Subjects</b>	<b>ECTS credits</b>	<b>Type</b>
International Maritime Business	6	Compulsory
Maritime Legislation, Regulations and Economy	6	Compulsory
Port Management and Planning of Transport	6	Compulsory
Short Sea Shipping	6	Compulsory
Bachelor's Thesis	12	Project

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