



Course guide

280804 - 280804 - Economy and Shipping Business

Last modified: 27/05/2025

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering.

Degree: MASTER'S DEGREE IN NAVAL AND OCEAN ENGINEERING (Syllabus 2017). (Compulsory subject).

Academic year: 2025 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: MIGUEL PARDO GIL ALBERDI

Others: Primer quadrimestre:
MIGUEL PARDO GIL ALBERDI - MUENO

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

MUENO_CE5. Knowledge of the shipbuilding and repair markets and their legal and economic aspects, for their application to the corresponding contracts and specifications
MUENO_CE14. Knowledge of trade and international maritime transport for its application to the definition and optimization of new vessels and artifacts
MUENO_CE15. Knowledge of economics and business management in the maritime field

General:

MUENO_CG1. Ability to solve complex problems and to make responsible decisions based on the scientific and technological knowledge acquired in basic and technological subjects applicable in naval and ocean engineering, and in management methods
MUENO_CG2. Ability to conceive and develop solutions that are technically, economically and environmentally appropriate to the needs of maritime or integral transportation of people and goods, of the use of oceanic resources and of the marine subsoil (fishing, energy, minerals, etc.), adequate use of the marine habitat and means of defense and maritime security
MUENO_CG8. Ability to analyze and interpret measurements, calculations, evaluations, appraisals, studies, reports, work plans and other similar works
MUENO_CG9. Ability to draft specifications that comply with the provisions of contracts, regulations and standards of the naval and industrial field
MUENO_CG10. Knowledge of maritime traffic and integral transport necessary for the ship project
MUENO_CG11. Capacity for the management and direction of maritime companies
MUENO_CG14. Ability to analyze, assess and correct the social and environmental impact of technical solutions
MUENO_CG15. Ability to organize and direct multidisciplinary work groups in a multilingual environment, and to generate reports for the transmission of knowledge and results

Transversal:

CT1. ENTREPRENEURSHIP AND INNOVATION: Knowing and understanding the organization of a company and the sciences that govern the activity; be able to understand the business rules and relationships between planning, industrial and commercial strategies, quality and profit.
CT2. SUSTAINABILITY AND SOCIAL COMMITMENT: Know and understand the complexity of economic and social phenomena typical of the welfare society, being able to relate welfare to globalization and sustainability; acquire skills to use in a balanced manner compatible technology, technology, economics and sustainability.
CT3. TEAMWORK: Ability to work as a member of an interdisciplinary team, either as a member or performing management tasks, with the aim of contributing to projects pragmatically and sense of responsibility, assuming commitments considering the resources available.
CT4. EFFECTIVE USE OF INFORMATION RESOURCES: Manage the acquisition, structuring, analysis and visualization of data and information in the field of specialty, and critically evaluate the results of this management.
CT5. THIRD LANGUAGE Learning a third language, preferably English, with adequate oral and written and in line with the future needs of the graduates.



Basic:

CB6. Possess knowledge and understanding that provide a basis or opportunity to be original in the development and / or application of ideas, often in a research context.

CB7. That the students can apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their study area.

CB8. Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.

CB9. That students can communicate their conclusions and the knowledge and rationale underpinning to specialists and non specialists clearly and unambiguously.

CB10. Students must possess the learning skills that enable them to continue studying in a way that will be largely self-directed or autonomous.

TEACHING METHODOLOGY

Theoretical concepts

Class resolution of practical cases

LEARNING OBJECTIVES OF THE SUBJECT

To understand the particularities of the maritime business, enabling the student to understand the economic consequences of the business decisions, management indicators, risk analysis and profitability of investments, social impact of business activity. The student should be able to understand the accounting and financial information of a company to a sufficient level to enable him to make decisions.

STUDY LOAD

Type	Hours	Percentage
Self study	80,0	64.00
Hours large group	45,0	36.00

Total learning time: 125 h

CONTENTS

1. BASIC ACCOUNTING PRINCIPLES

Description:

Conceptualization of the control and registry systems associated to the economical operations conducted in a company.

Development of the accounting principles and their main characteristics.

Full-or-part-time: 12h

Theory classes: 6h

Guided activities: 2h

Self study : 4h



2. BASIC FINANCIAL MATHEMATICS

Description:

Mathematics associated to the analysis of results, loses, gains and exploitation accounts.
Study of the ratios and indicators for the evaluation of companies.

Full-or-part-time: 23h 30m

Theory classes: 7h 30m

Guided activities: 4h

Self study : 12h

3. INTRODUCTION TO MARITIME TRAFFIC

Description:

International trade and maritime traffic. Sea transport modes: tramp traffic and regular lines.
Study of the four maritime markets.
Maritime transport costs.
Ship exploitation contracts.

Full-or-part-time: 25h

Theory classes: 9h

Guided activities: 4h

Self study : 12h

4. FREIGHT MARKET

Description:

Description of the different agents involved in the freight market, the different types of contracts and the associated responsibilities.
Recent evolution of the freight market, actual market supply and demand balance.

Full-or-part-time: 19h 30m

Theory classes: 7h 30m

Guided activities: 2h

Self study : 10h

5. CSR ACCOUNT

Description:

Corporate Social Responsibility (CSR) account of a company.
Description and use of a CSR balance analysis tool.
Future company actions based on the CSR account.

Full-or-part-time: 29h

Theory classes: 9h

Guided activities: 4h

Self study : 16h



6. FISHING AND AQUACULTURE

Description:

Description of the global state regarding fishing and aquaculture.
World production.
Weight of aquaculture, aquaculture categories and species produced.
Fishing fleet based on size and region.
Import-export balances and consumption of fishing and aquaculture products.

Full-or-part-time: 16h

Theory classes: 6h

Guided activities: 2h

Self study : 8h

GRADING SYSTEM

25% Class activities

75% Final test

BIBLIOGRAPHY

Basic:

- International maritime transport : perspectives [on line]. London: Routledge, 2005 [Consultation: 01/09/2022]. Available on: <https://www.taylorfrancis.com/recursos.biblioteca.upc.edu/books/edit/10.4324/9780203005651/international-maritime-transport-heather-leggate-james-mcconville-alfonso-morvillo>. ISBN 9780203005651.
- Stopford, Martin. Maritime economics. 3rd ed. London: Routledge, 2009. ISBN 9780415275583.