VNIVERSITAT DE VALÈNCIA

Course Guide

43242 Systematics and ecology of marine invertebrates

COURSE DATA

DATA SUBJECT

Code: 43242
Name: Systematics and ecology of marine invertebrates
Cycle: Master's Degree
ECTS Credits: 3
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period

SUBJECT-MATTER

Degree	Subject-matter	Character

COORDINATION

MONTERO ROYO FRANCISCO ESTEBAN

PEÑA CANTERO ALVARO LUIS

SUMMARY

Ecology and Systematics of Marine Invertebrates is a required subject taught in the first semester of the Master in Biodiversity: Conservation and Evolution (Itinerary II) and consists of 3 ECTS credits.

The teachers of the subject assume that the students have basic knowledge about the main groups of marine invertebrates, so in this subject it is intended to deepen and complete biological and ecological aspects, focusing basically on their natural history, morphology and systematics. This subject also offers basic knowledge to tackle other electives of this same itinerary.

This subject has a mixed theoretical-practical nature that includes theoretical sessions and practical sessions for processing, observation and identification of marine fauna, which will allow exercising the concepts and techniques studied and familiarizing the student with the different groups of invertebrates and their main habitats.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

None.

COMPETENCES / LEARNING OUTCOMES

2148 -

Awaken interest in the social and economic application of science.

Be able to access the information required (databases, scientific articles, etc.) and to interpret and use it sensibly.

Encourage ethical commitment and environmental awareness.

Stimulate the capacity for critical reasoning and for argumentation based on rational criteria.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

DESCRIPTION OF CONTENTS

1. Block 1. The marine enviroment

Presentation of the main divisions of the oceans, both the pelagic domain and the benthic domain, as well as their most important characteristics.

2. Block 2. Systematic and ecological study of marine invertebrates.

Ecological and taxonomic characterisation of the main groups of marine invertebrates. Identification of marine macroinvertebrate taxa.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Total hours	0,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	20,00
Independent study and work	0,00
Preparation of lessons	15,00
Preparation for assessment activities	10,00
Resolution of case studies	0,00
Total hours	**45,00**

TEACHING METHODOLOGY

The course will start with a full group session in which the main divisions of the oceans and their most important features will be presented. Likewise, the fundamental elements for the development of the subject will be introduced.

The practical activities of the course include a field trip to take samples in different marine communities, which will be the basis of the work that students will carry out in the laboratory sessions and of the report that they will have to write.

The rest of the sessions will be theoretical-practical with an introduction to the main taxonomic groups, with emphasis on identification methods and diagnostic characters, followed by the sorting and identification, by the students, of the fauna present in the assigned samples.

Attendance will be compulsory. In addition, it will be necessary to prepare a report on the results of the study of the assigned sample, with a compulsory format that will be indicated at the beginning of the course and that will serve as a basis for the evaluation of the subject.

EVALUATION

For the evaluation of students it will be essential that they attend all the sessions. The evaluation will take into account the students' participation and attitude towards the subject, and the report on the assigned samples, for which it will be necessary to obtain a minimum of five points (out of 10).

REFERENCES

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