

**COURSE DATA****Data Subject**

Code	43247
Name	Animal adaptations to marine environments
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
2148 - M.D. in Biodiversity: Conservation and Evolution	Faculty of Biological Sciences	1	First term

Subject-matter

Degree	Subject-matter	Character
2148 - M.D. in Biodiversity: Conservation and Evolution	4 - Integral aspects of animal diversity	Optional

Coordination

Name	Department
PEÑA CANTERO, ALVARO LUIS	355 - Zoology

SUMMARY**English version is not available**

El concepto de biodiversidad engloba aspectos muy variados a diferentes escalas biológicas. La presente asignatura tiene como objetivo general abordar el estudio de la diversidad biológica relativa a las adaptaciones y estrategias vitales de los animales marinos. Se trata de que los estudiantes conozcan cuáles son los mecanismos y adaptaciones fundamentales que presentan los animales marinos para hacer frente a sus requerimientos vitales.

**PREVIOUS KNOWLEDGE****Relationship to other subjects of the same degree**

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

Other requirements**OUTCOMES****2148 - M.D. in Biodiversity: Conservation and Evolution**

- 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.
- To acquire basic skills to develop laboratory work in biomedical research.
- Be able to access the information required (databases, scientific articles, etc.) and to interpret and use it sensibly.
- Stimulate the capacity for critical reasoning and for argumentation based on rational criteria.
- Favour intellectual curiosity and encourage responsibility for one's own learning.

LEARNING OUTCOMES

English version is not available

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	20,00	100
Laboratory practices	10,00	100
Development of group work	20,00	0
Study and independent work	25,00	0
TOTAL	75,00	



TEACHING METHODOLOGY

English version is not available

EVALUATION

English version is not available

REFERENCES

Basic

- Bradley, T.J. (2009) Animal Osmoregulation. Oxford University Press.
- Castro, P., Huber, M.E. (2016) Marine Biology. McGraw-Hill Education.
- Helfman, G.S., Collette, B.B., Facey, D.E., Bowen, B.W. (2009) The Diversity of Fishes. Biology, Evolution, and Ecology. Wiley-Blackwell.
- Levinton, J.S. (2009). Marine Biology. Function, biodiversity, ecology. Oxford University Press.
- Nybakken, K.J. (1983). Marine Biology: an ecological approach. Wiley. Chichester.
- Randall, D.J., Farrell, A.P. (1997) Deep-Sea Fishes. Academic Press.
- Willmer, P., Stone, G., Johnston, I. (2005) Environmental Physiology of Animals. 2nd edition. Blackwell Publishing.

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available