



COURSE DATA

Data Subject	
Code	43247
Name	Animal adaptations to marine environments
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2020 - 2021

Study (s)

Degree	Center	Acad. Period year
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

1. Contenidos

Se mantienen los contenidos inicialmente recogidos en la guía docente.

2. Volumen de trabajo y planificación temporal de la docencia

Mantenimiento del peso de las distintas actividades que suman las horas de dedicación en créditos ECTS marcadas en la guía docente original.



Sesiones programadas en las mismas fechas y horas con la misma duración.

3. Metodología docente

- Videoconferencia síncrona BBC.
- Transparencias locutadas.
- Subida de materiales al Aula virtual.
- Tutorías mediante videoconferencia.

4. Evaluación

Se mantiene el sistema de evaluación inicialmente recogido en la guía docente.

La evaluación de la parte teórica se llevará a cabo mediante exámenes orales individuales por videoconferencia. El trabajo de investigación se presentará por videoconferencia.

5. Bibliografía

La bibliografía recomendada se mantiene.