Universitat Autònoma de Barcelona

2021/2022

The Life on Earth

Code: 101030
ECTS Credits: 6

Degree	Type	Year	Semester
2500254 Geology	FB	1	1

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Enric Vicens Batet
Judit Marigó Cortés
Rafel Matamales Andreu
Marc Furio Bruno
Joan Madurell Malapeira
Angel Hernandez Lujan

Prerequisites

Although there are no prerequisites, it is recommended the student to be skilled in basic knowledge of Biology.

Objectives and Contextualisation

Contextualization: This subject provides an essential introduction to the compulsory basic subject "Biology". It is taught in the first year of the Geology Degree.

Objectives: To provide a solid foundation in Biology. To understand the principles and concepts of evolution, ecology and biogeography. To be familiar with the organisational levels of living organisms and the characteristics of the main taxonomical groups.

Competences

- Learn and apply the knowledge acquired, and use it to solve problems.
- Obtain information from texts written in other languages.
- Suitably transmit information, verbally, graphically and in writing, using modern information and communication technologies.
- Use concepts from biology when solving problems in geology.
- Work independently.

Learning Outcomes

1. Apply concepts from biology to understand the levels of organisation of living beings, ecology, biogeography and evolution.
2. Learn and apply the knowledge acquired, and use it to solve problems.
3. Obtain information from texts written in other languages.
4. Suitably transmit information, verbally, graphically and in writing, using modern information and communication technologies.
5. Work independently.

Content

- Introduction. Life.

- The cell. Structure. Function. Energy flux.

- Reproduction. Heritage.

- Tissues. Organs. Systems. Organisms.

- Anatomy. Physiology. Morphology. Growing. Skeleton.

- Evolution. Diversity. Systematics. Taxonomy.

- Ecology. Environment. Populations. Communities. Ecosystems.

- Biogeography.

- Organisms: Bacteria. Archaebacteria. Eukaryotes.

- Organisms: Protists.

- Organisms: Plants. Fungi. Animals.

Methodology

As a result of the sanitary emergency, a mixed teaching model will be followed during this course. This model will combine class-based and e-learning activities, together with the student's independent learning. The different teaching-learning strategies to achieve the objectives of the course will have to be adapted to this exceptional situation.

Lectures: Students will acquire the necessary scientific-technical knowledge for the course in in-class and virtual lectures. Students will have access to study material (presentations, figures, schemes) to follow the course.

Laboratory classes: The practical classes consist of observing the distinct groups of organisms studied in the theory classes. Laboratory classes will take place in 2 hour-long sessions at the Palaeontology laboratory, in reduced groups to follow the sanitary and academic requirements. There is a possibility that some practical classes could be virtual.

Autonomous activities: The activities mentioned above must be complemented with the personal work and study from the student.

Exercises carried out in laboratory classes or as independent work will be submitted on the dates determined by the lecturers.

This teaching model can derive in 100% in-class mode or one 100% virtual mode, depending on the sanitary requirements. The organization of the lectures and practical classes will be published on the Campus Virtual (CV).

Aquest model de docència pot derivar en un de modalitat 100 % presencial o en un de modalitat 100 % no presencial en funció de les condicions sanitàries. L'organització de les classes teòriques i pràctiques es publicaran al Campus Virtual (CV).

Approximately 15 minutes of one session along the academic year will be devoted to allow students to carry out the surveys for evaluating teaching performance and the subject.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Laboratory work	26	1.04	1, 2, 3, 4, 5
Lectures	26	1.04	1, 2, 3, 4, 5
Type: Supervised			
Exercises	15	0.6	1, 2, 3, 4, 5
Type: Autonomous			
Personal study and work	75	3	1, 2, 3, 4, 5

Assessment

All students registered on this subject (whether for the first time or not) are required to carry out the same activities (lectures and laboratory classes) and will be subject to the same assessment criteria.

Assessment for this subject is continuous throughout the course and is based on the following elements:

1. Exams. Exams, representing-jointly-70% of the final grade. These exams will take place during the course and will include all content covered in lectures and practical classes.

A minimum grade of 4 in each exam is required to average with the other course grades. Students who have obtained a grade lower than 4 must present themselves for re-assessment of the exams

The students who pass all the exams may take the re-assessment to improve their final grade. The mark used to calculate the final grade will be that obtained in re-assessment.

2. Laboratory classes. The exercises/ tests carried out in laboratory classes represent 30% of the final grade. Attending laboratory classes is mandatory. Students attending less than 80% of the practical sessions will not be eligible for assessment and will be awarded the grade of zero (0) for this activity. There is no re-assessment for the practical exercises.

To pass the subject it will be necessary to obtain a minimum overall grade of 5 points.

Schedule of the assessment activities

The dates of the assessment activities and the submission of exercises will be published in the Campus Virtual (CV). They may be subject to changes inprogramming due to unforeseen eventualities. Any modification will be announced through this platform.

Assessment activities will not be permitted for any student at different dates or times to that the ones already established, unless for justified causes duly advised before the activity, and with the lecturer's previous consent. In all other cases, if an activity has not been carried out, this cannot be re-assessed.

Irregularities committed by the student, copy and plagiarism

According to the UAB academic regulations, assessment activities will be qualified with a zero (0) whenever a student commits academic irregularities that may alter such assessment.

Irregularities contemplated in this procedure include, among others:

- the total or partial copying of a test, practical exercise, report, or any other evaluation activity;
- allowing others to copy;
- presenting group work that has not been done entirely by the members of the group;
- presenting any materials prepared by a third party as one's work, even if these materials are translations or adaptations, including work that is not original or exclusively that of the student;
- having communication devices (such as mobile phones, smartwatches, etc.) accessible during theoretical-practical assessment tests (individual exams).

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Continuous assessment of exercises and practical classes	30 %	0	0	1, 2, 3, 4, 5
Exams	70 %	8	0.32	1, 2, 3, 4, 5

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Software

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