



Information about the subject

Degree: Master's Degree in Secondary Teacher Training, Baccalaureate, Vocational Training and Language Teaching

Faculty: Faculty of Teaching and Educational Sciences

Code: 1020048 **Name:** The Biology and Geology Curriculum in Compulsory Secondary Education

Credits: 6 ECTS **Year:** 1 **Semester:** First

Module: Specific module of Biology and Geology

Subject Matter: Complements for disciplinary training **Type:** Basic formation

Department: Mathematics, Natural Sciences and Social Sciences applied to education.

Type of learning: Face-to-face

Language/-s in which it is taught: Spanish

Lecturer:

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Organization organization

BASIC THEORETICAL TRAINING

Subject Matter	ECTS	Subject	ECTS	Year/semester
Complements for disciplinary training	6	The Natural Sciences Curriculum in Compulsory Secondary Education and Baccalaureate	6	1/1
Learning and teaching of Biology and Geology	12	Didactics of natural sciences	6	1/1
		Didactic resources for teaching natural sciences	6	1/2
Teaching innovation and initiation into research	6	Innovation and research in Natural Sciences Didactics	6	1/2

Recommended knowledge

Not required



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

Code	Learning outcomes
R1	Know the curricula related to the specialty of Biology and Geology, as well as the rest of the legal regulations.
R2	Identify the formative value of the subject and the contexts and situations in which the curricular contents related to the specialty of Biology and Geology are used or applied.
R3	Specify the curriculum that is going to be implemented in a Center.

Competencies

Depending on the learning results of the subject, the competencies to which it contributes are: (rate from 1 to 4, with 4 being the highest score)

Code	General	Weighing			
		1	2	3	4
CG 1	1 Know in depth the curricular contents of the subjects related to the corresponding teaching specialization, as well as the body of didactic knowledge around the respective teaching and learning processes and rework them into teachable and useful knowledge for the exercise of the regulated professions of Teacher. of Compulsory Secondary Education and Baccalaureate, Vocational Training and Language Teaching, Artistic and Sports.				x
CG 2	Plan, develop and evaluate the teaching and learning process, promoting educational processes that facilitate the acquisition of the skills inherent to the respective teachings, taking into account the level and previous training of the students, as well as their orientation, both individually and collaboratively. with other teachers and professionals from the center.			x	



CG 3	Search, obtain, process and communicate information (oral, printed, audiovisual, digital or multimedia), transform it into knowledge and apply it in the teaching and learning processes in the subjects of the specialization taken.	x			
CG 4	Know the interaction and communication processes in the classroom, master the skills and social abilities necessary to promote learning and coexistence in the classroom, and address discipline and conflict resolution problems.			x	
CG 5	Specify the curriculum that is going to be implemented in a teaching center by participating in its collective planning; develop and apply teaching methodologies, both group and personalized, adapted to the diversity of students				x

Code	Specific	Weighing			
		1	2	3	4
CE 1	Know the contexts and situations in which the various curricular contents related to the specialty of Biology and Geology are used or applied.			x	
CE 2	Know the curricula related to the specialty of Biology and Geology that are taken in different educational contexts.				x
EC 3	Acquire selection criteria and development of educational materials			x	
CE 4	Integrate the social and technological dimension of the specialty of Biology and Geology, understanding the advantages and problems that its development poses to the natural environment, human beings and society, to contribute to the conservation and protection of natural heritage.	x			



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
Know the curricula related to the specialty of Biology and Geology, as well as the rest of the legal regulations	20 %	Classroom observation
Identify the formative value of the subject and the contexts and situations in which the curricular contents related to the specialty of Biology and Geology are used or applied.	15 %	Classroom observation
Specify the curriculum that is going to be implemented in a Center.	65%	Relationship work of: Key, specific competencies, basic knowledge, evaluation and qualification criteria and evaluation instruments

Criteria for granting Honor Certificates: In accordance with the regulations governing the evaluation and grading of the subject in force at the UCV, the mention of "Honors" may be awarded to students who have obtained a grade equal to or greater than 9.0. The number of "Honors" may not exceed five percent of the students enrolled in the group in the corresponding academic year, unless the number of students enrolled is less than 20, in which case a single "Honors" may be granted. honorary".

Exceptionally, honors may be assigned between the different groups of the same subject globally. However, the total number of honors to be awarded will be the same as if they were assigned by group, but these may be distributed among all students based on a common criterion, regardless of the group to which they belong.

The criteria for granting "Honors" will be carried out according to the criteria stipulated by the teacher responsible for the subject detailed in the "Observations" section of the evaluation system of the teaching guide.

Single evaluation: *Exceptionally, those students who, for unforeseen, justified and accredited reasons, cannot undergo the continuous evaluation system and request it from the Coordination of the specialty, within the first month of teaching, may opt for this evaluation system.*

In this case, it will be evaluated as follows: the student will submit, through UCVnet, all the work carried out during the course, within the established deadlines. Likewise, you will take the evaluation test on the date assigned for this purpose



Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1	Participatory master class
M2	Collaborative work
M3	Exhibitions of work in groups
M4	Personalized attention in a small group
M5	Case study



IN-CLASS LEARNING ACTIVITIES		
Activity	Relationship with Learning Results of the subject	ECTS
Class attendance	R1, R2, R3	0.8
Practical lesson	R3	0.1
Exhibition of work in groups	R1, R2, R3	0.1
Tutoring	R1, R2, R3	0.1
Assessment	R1, R2, R3	0.1
Total		1.2

SELF-EMPLOYED TRAINING ACTIVITIES		
Activity	Relationship with Learning Results of the subject	ECTS
Team work	Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to present or deliver in theoretical classes, practical classes and/or small group tutorials. Work done on the university platform.	0.8
Autonomous work	Student study: Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to present or deliver in theoretical classes, practical classes and/or small group tutorials. Work done on the university platform.	4
Total		4.8



Description of the contents

Description of contents necessary for the acquisition of learning results.

CONTENTS BLOCK	Contents
Regulations and sources of the curriculum	Bases that support the curriculum.
Levels of curricular specification	Analysis of the Secondary and Baccalaureate curriculum
Assessment	Secondary Assessment High school evaluation Teaching practice evaluation Objectivity in the evaluation Attention to diversity
Classroom programming	Pedagogical proposal Learning situations
Entrance exams to college	Analysis of current regulations and test design

Temporal organization of learning

CONTENT BLOCK/DIDACTIC UNIT	n of sessions	Hours
Fundamentals of curricular design, levels of concretion, sources of the curriculum.	2	5
The first level of concretion: Analysis of the curriculum of the ESO subjects assigned to secondary school teachers specializing in Biology and Geology.	3	7.5
The first level of concretion: Analysis of the curriculum of the Baccalaureate subjects assigned to the Secondary School teachers specializing in Biology and Geology.	2	5
The basic skills.	2	5
Evaluation in Secondary.	1	2.5
Evaluation in Baccalaureate.	1	2.5
The attention to diversity.	1	2.5
The programing.	2	5



The PAUs.	0.25	Four. Five'
Teaching practice evaluation.	0.5	1
Objectivity in the evaluation.	0.25	Four. Five'



References

- Organic Law 2/2006, of May 3, on education
- Organic Law 3/2020, of December 29, which modifies Organic Law 2/2006, of May 3, on Education.
- Royal Decree 562/2017, of June 2, which regulates the conditions for obtaining graduate degrees in Compulsory Secondary Education and Baccalaureate.
- Law 4/2018, of February 21, of the Generalitat, which regulates and promotes multilingualism in the Valencian educational system.
- Decree 104/2018, of July 27, of the Consell, which develops the principles of equity and inclusion in the Valencian educational system.
- Decree 51/2018, of April 27, of the Consell, by which Decree 87/2015 is modified, by which the curriculum is established and the general organization of Compulsory Secondary Education and Baccalaureate in the Valencian Community is deployed.
- DECRET 107/2022, of August 5, of the Consell, which establishes the order and curriculum of Compulsory Secondary Education.
- DECRET 108/2022, of August 5, of the Consell, which establishes the order and curriculum of Batxillerat.
- Royal Decree 243/2022, of April 5, which establishes the organization and minimum teachings of the Baccalaureate.
- Royal Decree 217/2022, of March 29, which establishes the organization and minimum teachings of Compulsory Secondary Education
- RESOLUTION of June 27, 2023, of the regional secretary of Education and Vocational Training, approving the instructions for the organization and operation of the centers that teach Compulsory Secondary Education and Baccalaureate during the 2023-2024 academic year
- RD 860/2010, of July 2, which regulates the conditions of initial training of teachers in private centers to teach in compulsory secondary education or baccalaureate.
- ESCAMILLA, A. (1993) "Didactic units: a proposal for work in the classroom." Zaragoza: Edelvives.
- FERNÁNDEZ, J. AND OTHERS (1999) How to make innovative teaching units? Seville: Díada.
- GONZALEZ RAMOS, J., GUTIERREZ SOTO, F. AND RUEDA PRIETO, J. (1998). Curricular programming and teaching units. Recipes and examples. Madrid: Spanish School.