

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: TEACHING NATURAL AND SOCIAL SCIENCES Type: CORE COURSE Degree: 392 - BACHELOR'S DEGREE IN PRIMARY EDU Center: 101 - FACULTY OF EDUCATION IN ALBACETE Year: 4 Main language: Spanish				ECTS credits: 6 UCATION (AB) Academic year: 2021-22					
Use of additional languages:				English Friendly: N					
Web site:						Bilingual: Y			
Lecturer: CONSUELC	MORENO	RUBIO - Group(s): 18							
Building/Office	lding/Office Department			Email		Office hours			
	GEOGRAFÍ	A Y ORD. TERRITORIC)	consuelo.n	noreno@uclm.es				
Lecturer: MARÍA EST	THER PAÑC	OS MARTÍNEZ - Group	s): 10 17						
Building/Office Department		Phon	e number	Email	Office hours				
Facultad de Educación. Planta baja. Laboratorio de Biología		9675 2512	99200 Ext.	Esther.Panos@uclm.es					
Lecturer: JOSE REY	ES RUIZ GA	LLARDO - Group(s): 1	0 17						
Building/Office		Department	Phone number		Email	Office hours			
Facultad de Educación. Planta baja. Laboratorio de Biología		96759 2510	99200 Ext.	josereyes.ruiz@uclm.es					
Lecturer: IRENE SÁN	ICHEZ OND	OÑO - Group(s): 19 1	/ 14		·				
Building/Office	Department		Phone number	Email		Office hours			
Facultad de Educación			+34 926 05 31 74	Irene.Sanc	hezOndono@uclm.es				
Lecturer: ROSA MAR		NO TORRES - Group(s): 19 11 18	3 14					
Building/Office	ding/Office Department		Phone number	Email		Office hours			
Facultad de Educación QUÍMICA FÍSICA 2				RosaM.Tole	edano@uclm.es				

2. Pre-Requisites

It is recommended that students, the future teachers, have a basic knowledge of general content in natural and social sciences.

It would also be desirable for the students to have passed the courses: Social Sciences I: Geography and its Didactics and Social Sciences II: History and its Didactics, and The Natural Environment I: Physics, Chemistry and Physics and Chemistry education. To be knowledgeable about General Pedagogy and Didactics is also recommended.

3. Justification in the curriculum, relation to other subjects and to the profession

The theoretical-practical contents proposed in this course for the initial training of future teachers in Primary Education are essential to know how to approach the understanding of the environment to the children who make up this educational stage. In this course unit, both content and basic didactic strategies are approached to bring the teaching and learning of experimental and social sciences closer to Primary Education. Students will be prepared to carry out, together with their students, simple investigations on issues of scientific interest, and to reflect these in the classroom and outside it. They will be able to elaborate projects, units, workshops, didactic materials and visits to the environment, in accordance with planning approaches focused on science, which help to achieve the intended objectives. In this course, the formative dimension of the social and experimental sciences is valued thinking about a future teaching application.

4. Degree compet	tences achieved in this course
Course competend	ces
Code	Description
1.2.1.11.03	Plan and solve problems related to daily life.
1.2.1.II.04	Value science as a cultural fact.
1.2.1.11.05	Recognise the mutual influence that science, society and technological development have had on each other as well as good corporate citizienship in order to achieve a sustainable future.
1.2.1.11.06	Develop and assess contents in the curriculum by using appropriate teaching resources and promote the corresponding competences in the classroom.
1.2.1.11.07	Understand the basic principles of social sciences.
1.2.1.II.08	Take account of the Primary school curriculum of social sciences and relate it to the content of social sciences in the Degree in Primary Education.
1.2.1.11.09	Integrate history and geography cultural content and its teaching.
1.2.1.11.10	Foster democratic citizenship education and critical thinking and social practice.
1.2.1.II.13	Design and evaluate curricular contents through suitable teaching resources and promote the corresponding competences among students.

Know the curricular areas of Primary Education, the interdisciplinary relationship between them, the evaluation criteria and didactic knowledge about the corresponding teaching and learning procedures. Master information and communication technology (ICT).

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Be able to recognise the religious fact along the history and its relation with culture

Recognise in daily social and personal situations opportunities to develop positive and creative attitudes in children

Encourage democratic citizenship education and critical social thinking

Understand the basic principles of natural sciences

Know how to identify, establish and relate coceptual basis that define the didactics and the epistemology of History and Geography

Know how to analyse didactic programming in History cycles, Geography and other Social Sciences along the Primary Education period Develop units and syllabi based on contents of the field of knowledge

Identify, classify and elaborate different learning activities to teach History, Sciences and other Social Sciences

- Know how to adapt one's self to to social, economic and cultural changes and apply this to the knwledge of social sciences
- Know how to integrate the new technologies, both computer and audiovisual support, in the teaching of history, geography and other social siences
- Promote the cultural identity development through the historic and social knowledge

Be able to develop and evaluate curriculum contents through appropriate teaching resources and promote relevant skills in students.

Recognize the historical Science-Technology-Society influence, assessing their importance and cultural significance

Know how to promote the interdisciplinary of social sciences and the rest of curricular areas in complusory education

Think about the construction of social values through the analysis of social reality and historic knowledge

6. Units / Contents

Unit 1: Introduction to the teaching and learning of social sciences. Concept and epistemological field of social sciences

Unit 2: The curriculum of Primary Education in the social sciences

Unit 3: The teachin and learning of the social sciences. Methodologies, models, activities and educational resources for the teaching and learning of social sciences

Unit 4: The curriculum of Primary Education in the experimental sciences

Unit 5: The teaching and learning of the Experimental Sciences in Primary Eduaction

7. Activities, Units/Modules and M	<i>l</i> ethodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures	1.2.1.II.03 1.2.1.II.04 1.2.1.II.05 1.2.1.II.06 1.2.1.II.07 1.2.1.II.08 1.2.1.II.09 1.2.1.II.10 1.2.1.II.13 CG01 CT02	1.12	28	N	-	Lectures in which the students will actively participate through questions, problem and cases statement, etc. A field trip can be made, which will be voluntary	
Writing of reports or projects [OFF- SITE]	Workshops and Seminars	CT02	2.4	60	Y	N	The students, through different individual or cooperative strategies, will carry out the assignment/s determined by the teacher. Thus, the students will demonstrate their skills as teachers. The designed works to be developed in a group cannot be carried out individually	
Project or Topic Presentations [ON- SITE]	Cooperative / Collaborative Learning	1.2.1.II.03 1.2.1.II.04 1.2.1.II.05 1.2.1.II.06 CG01	1	25	Y		The students, through different individual and/or cooperative strategies, will present their learning to their classmates and their teacher	
Final test [ON-SITE]	Assessment tests	1.2.1.II.09 1.2.1.II.10 1.2.1.II.13 CG01	0.16	4	Y	Y	The student must demonstrate individually the learning acquired throughout the course. Students must obtain 4/10 points as minimum in this activity.	
Study and Exam Preparation [OFF- SITE]	Self-study	CG01 CT02	1.2	30	N		Study for a theoretical-practical exam, to demonstrate the knowledge and skills acquired throughout the course	
Individual tutoring sessions [ON- SITE]	Guided or supervised work	1.2.1.II.03 1.2.1.II.04 1.2.1.II.05 1.2.1.II.06 1.2.1.II.07 1.2.1.II.08 1.2.1.II.09 1.2.1.II.00 1.2.1.II.09 1.2.1.II.10 1.2.1.II.13 CG01	0.12	3	N		Students will attend tutoring sessions to guide the activities that they must carry out independently.	
Total:								
		al credits of in-class work: 2.4					Total class time hours: 60	
	Total c	redits of out of class work: 3.6	Total credits of out of class work: 3.6 Total hours of out of class work: 90					

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System							
Evaluation System	Continuous assessment	Non- continuous evaluation*	Description				
Practicum and practical activities reports assessment	20.00%	20.00%	In the Natural Sciences part, a minimum of 20% of the final mark will correspond to the works carried out by the student throughout the course. This mark will be sum to the mark obtained in the final exam, if the final exam has obtained a minimum of 4 points. ***Plagiarism policy: See article 9 of Students Evaluation Rules.				
Final test	30.00%	30.00%	In the Natural Sciences part, a 30% of the mark will correspond to the final test. Students must obtain a minimum rating of 4 out of 10 to considered the mark obtained in the practical assignments.				
Final test	30.00%	30.00%	In the Social Sciences part, the 60% of the mark will correspond to the final grade. Students must obtain a minimum rating of 4 out of 10 to considered the mark obtained in the review on the documents worked in the seminars				
Assessment of problem solving and/or case studies	20.00%	20.00%	In the Social Sciences part, the preparation of reviews on the documents worked in the seminars and the participation on them will suppose the 40% of the mark				
Tota	: 100.00%	100.00%					

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

Students must obtain a minimum rating of 4 out of 10 in each final test (Natural and Social Sciences) to compensate between them and pass the course. For every mistake of those included in the "List of mistakes to avoid" (see Moodle), the student will miss 0.2 marks in the corresponding activity/test/presentation/exam up to a maximum of 1.6 marks (8 mistakes). If the mistake is repeated, the repetition(s) will be also penalized.

**If applicable, any modifications or adaptations needed in the teaching guides as a result of a change in the teaching or evaluation model derived from the evolution of the pandemic will be documented in a later addendum

***Plagiarism policy: See article 9 of Students Evaluation Rules.

Non-continuous evaluation:

The students who do not regularly attend class, must contact the teachers at the beginning of the course, do the same works or assignments and meet the same criteria as the rest of the students. They may be examined from these assignments.

Students must obtain a minimum rating of 4 out of 10 in each part (Natural and Social Sciences) to compensate between them and pass the course. The remaining criteria are the same than for continuous assessment.

For every mistake of those included in the "List of mistakes to avoid" (see Moodle), the student will miss 0.2 marks in the corresponding activity/test/presentation/exam up to a maximum of 1.6 marks (8 mistakes). If the mistake is repeated, the repetition(s) will be also penalized.

** If applicable, any modifications or adaptations needed in the teaching guides as a result of a change in the teaching or evaluation model derived from the

evolution of the pandemic will be documented in a later addendum

***Plagiarism policy: See article 9 of Students Evaluation Rules.

Specifications for the resit/retake exam:

Same criteria as in the ordinary call and non-continuous evaluation. Students who have obtained a grade greater than 4 in any of the parts of the course (natural or social sciences) in the ordinary call may not attend that part.

**If applicable, any modifications or adaptations needed in the teaching guides as a result of a change in the teaching or evaluation model derived from the evolution of the pandemic will be documented in a later addendum

Specifications for the second resit / retake exam:

Same criteria as in the others calls

**If applicable, any modifications or adaptations needed in the teaching guides as a result of a change in the teaching or evaluation model derived from the evolution of the pandemic will be documented in a later addendum

9. Assignments, course calendar and important dates					
Not related to the syllabus/contents					
Hours hours					
Unit 1 (de 5): Introduction to the teaching and learning of social sciences. Concept and epistemological field of social sciences					
Activities	Hours				
Class Attendance (theory) [PRESENCIAL][Lectures]	5				
Writing of reports or projects [AUTÓNOMA][Workshops and Seminars]	12				
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	5				
Final test [PRESENCIAL][Assessment tests]	.8				
Study and Exam Preparation [AUTÓNOMA][Self-study]	6				
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	.6				
Teaching period: September-January					
Unit 2 (de 5): The curriculum of Primary Education in the social sciences					
Activities	Hours				

Class Attendance (theory) [PRESENCIAL][Lectures]	6
Writing of reports or projects [AUTÓNOMA][Workshops and Seminars]	12
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	5
Final test [PRESENCIAL][Assessment tests]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	6
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	.6
Teaching period: September-January	
Unit 3 (de 5): The teachin and learning of the social sciences. Methodologies, models, activities and educatio of social sciences	onal resources for the teaching and learning
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	5
	12
Writing of reports or projects [AUTÓNOMA][Workshops and Seminars]	5
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	.8
Final test [PRESENCIAL][Assessment tests]	.o 6
Study and Exam Preparation [AUTÓNOMA][Self-study]	
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	.6
Teaching period: September-January	
Unit 4 (de 5): The curriculum of Primary Education in the experimental sciences	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	7
Writing of reports or projects [AUTONOMA][Workshops and Seminars]	12
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	5
Final test [PRESENCIAL][Assessment tests]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	6
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	.6
Teaching period: September-January	
Unit 5 (de 5): The teaching and learning of the Experimental Sciences in Primary Eduaction	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Writing of reports or projects [AUTÓNOMA][Workshops and Seminars]	12
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	5
Final test [PRESENCIAL][Assessment tests]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	6
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	.6
Teaching period: September-January	
Global activity	
Activities	hours
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	25
Class Attendance (theory) [PRESENCIAL][Lectures]	28
Final test [PRESENCIAL][Assessment tests]	4
Writing of reports or projects [AUTÓNOMA][Workshops and Seminars]	60
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	3
	Total horas: 150

10. Bibliography and Sources								
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description		
Ana Rivero García; Rosa Martín del Pozo; Emilio Solís Ramírez; Rafale Porlán Ariza	Didáctica de las ciencias experimentales en educación primaria	Sintesis	Madrid	978-84-9171-062-2	2017			
Banet Hernández, Enrique	Didáctica de las ciencias experimentales II	Diego Marín Librero Editor		84-8425-455-0	2005			
Pedro Cañal; Antonio García- Carmona; Marta Cruz-Guzmán	Didáctica de las ciencias experimentales en educación primaria	Paraninfo	Madrid	978-84-2833-734-2		Colección Didáctica y Desarrollo		
Domínguez Garrido, M.C.	Didáctica de las Ciencias Sociales			84-205-3453-6	2004			
Cubero, Rosario	Cómo trabajar con las ideas de los alumnos	Díada		84-87118-82-8	2000			
Pozo, Juan Ignacio	Aprender y enseñar ciencia : del conocimiento cotidiano al ciudadano	Morata		978-84-7112-440-1	2013			
VV.AA.	Didáctica del conocimiento del Medio Social y Cultural en la Educación Primaria	Síntesis		975677-3-2	2011			
Fredericks, Anthony D.	Experimentos sencillos con la naturaleza	Oniro		978-84-95456-48-9	2007			
	Didáctica de las ciencias experimentales I	Diego Marín Librero Editor		84-8425-458-5	2005			