

**1. General information****Course:** UNDERGRADUATE DISSERTATION**Type:** PROJECT**Degree:** 409 - CHEMISTRY**Center:** 1 - FACULTY OF SCIENCE AND CHEMICAL TECHNOLOGY**Year:** 4**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 57330**ECTS credits:** 12**Academic year:** 2023-24**Group(s):** 20**Duration:** SD**Second language:** English**English Friendly:** Y**Bilingual:** N**Lecturer:** ELENA VILLASEÑOR CAMACHO - Group(s): 20

| Building/Office | Department | Phone number | Email | Office hours |
|--|-------------------------------|--------------|--------------------------|---|
| Edificio San Alberto Magno (primer piso) | QUÍMICA INORG., ORG., Y BIOQ. | 926052133 | elena.villasenor@uclm.es | Tuesday and Thursday from 17:00 to 18:00 h. |

2. Pre-Requisites

The students who have passed the Basic Training Module and at least 150 ECTS credits between the Basic and Chemistry Fundamentals modules, will be entitled to the award of a Final Degree Project and to the assignment of a Tutor. corresponding to the Final Degree Project. The defense of the End of Degree Project will necessarily require having passed all the credits that make up the curriculum, except for those corresponding to the mentioned project (228 ECTS credits).

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

The end of grade work involves the realization on the part of the student and individually of a project, memory or original study under the supervision of one or more tutors. In this work, will be developed and integrated the received formative contents, capacities, competences and abilities acquired during the teaching period of the degree. The final degree project, therefore, should be oriented to the application of the general competencies associated with the degree: , to train for the bibliographic reserach, management, organization and interpretation of relevant data, normally from their area of study, to make judgments that include a reflection on relevant scientific and technological issues, and that facilitate the development of a critical, logical and creative thinking and judgment.

4. Degree competences achieved in this course**Course competences**

| Code | Description |
|------|--|
| CB01 | Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge. |
| CB02 | Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area. |
| CB03 | Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues. |
| CB04 | Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences. |
| CB05 | Have developed the necessary learning abilities to carry on studying autonomously |
| G01 | Know the principles and theories of Chemistry, as well as the methodologies and applications characteristic of analytical chemistry, physical chemistry, inorganic chemistry and organic chemistry, understanding the physical and mathematical bases that require |
| G02 | Be able to gather and interpret data, information and relevant results, obtain conclusions and issue reasoned reports on scientific, technological or other problems that require the use of chemical tools |
| G03 | Know how to apply the theoretical-practical knowledge acquired in the different professional contexts of Chemistry |
| G04 | Know how to communicate, orally and in writing, the knowledge, procedures and results of chemistry, both specialized and non-specialized |
| G05 | Acquire and adapt new knowledge and techniques of any scientific-technical discipline with incidence in the chemical field |

5. Objectives or Learning Outcomes**Course learning outcomes**

Description

Ability to develop, present and defend before a commission a work related to the exit profile that has been defined through the general objectives indicated in guideline 3 of the Report

6. Units / Contents**Unit 1: Proposed Undergraduate dissertation by different knowledge areas who teach undergraduate****7. Activities, Units/Modules and Methodology**

| Training Activity | Methodology | Related Competences (only degrees before RD 822/2021) | ECTS | Hours | As | Com | Description |
|-------------------|-------------|---|------|-------|----|-----|-------------|
|-------------------|-------------|---|------|-------|----|-----|-------------|

| | | | | | | | |
|--|---|------|-----------|--|---|---|---|
| Class Attendance (theory) [ON-SITE] | Combination of methods | CB03 | 1.5 | 37.5 | Y | N | Seminars/orientation courses/training for the realization of the Final Degree Project |
| Individual tutoring sessions [ON-SITE] | Guided or supervised work | G02 | 1.5 | 37.5 | Y | N | Tutoring work |
| Writing of reports or projects [OFF-SITE] | Guided or supervised work | CB03 | 7 | 175 | Y | Y | Preparation of the TFG report with follow-up of the tutor |
| Project or Topic Presentations [ON-SITE] | Collaborative on line international learning (COIL) | CB04 | 1.8 | 45 | Y | N | Presentation of the written work and the exposition |
| Final test [ON-SITE] | Individual presentation of projects and reports | G04 | 0.2 | 5 | Y | Y | Exposure and public defence before a court |
| Total: | | | 12 | 300 | | | |
| Total credits of in-class work: 5 | | | | Total class time hours: 125 | | | |
| Total credits of out of class work: 7 | | | | Total hours of out of class work: 175 | | | |

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 |
|-------------------|-----------------------|----------------------------|-------------|
| Projects | 100.00% | 100.00% | |
| Total: | 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:

The End of Degree Work will be evaluated by a court of three members, of which at least two will be teachers belonging to the different Chemistry Areas.

The Guardian shall issue an assessment report of the End of Degree Work that will be submitted to the court and authorize the presentation of the same to the court (essential prerequisite). The court's Assessment of End of Degree Work will have a score of between 0 and 10 points. The whole of this evaluation will be considered:

- The academic training acquired by the student (2 points out of 10).
- Scientific rigor and the quality of the work carried out (3 points out of 10).
- Exposure clarity (3 points out of 10).
- The capacity for debate and defence of arguments (2 points out of 10).

Non-continuous evaluation:

The End of Degree Work will be evaluated by a court of three members, of which at least two will be teachers belonging to the different Chemistry Areas.

The Guardian shall issue an assessment report of the End of Degree Work that will be submitted to the court and authorize the presentation of the same to the court (essential prerequisite). The court's Assessment of End of Degree Work will have a score of between 0 and 10 points. The whole of this evaluation will be considered:

- The academic training acquired by the student (2 points out of 10).
- Scientific rigor and the quality of the work carried out (3 points out of 10).
- Exposure clarity (3 points out of 10).
- The capacity for debate and defence of arguments (2 points out of 10).

Specifications for the resit/retake exam:

Not established

Specifications for the second resit / retake exam:

Not established

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

| Hours | hours |
|--|--------------|
| Class Attendance (theory) [PRESENCIAL][Combination of methods] | 37.5 |
| Individual tutoring sessions [PRESENCIAL][Guided or supervised work] | 37.5 |
| Writing of reports or projects [AUTÓNOMA][Guided or supervised work] | 175 |
| Project or Topic Presentations [PRESENCIAL][Collaborative on line international learning (COIL)] | 45 |
| Final test [PRESENCIAL][Individual presentation of projects and reports] | 5 |
| Global activity | |
| Activities | hours |
| Class Attendance (theory) [PRESENCIAL][Combination of methods] | 37.5 |
| Individual tutoring sessions [PRESENCIAL][Guided or supervised work] | 37.5 |
| Project or Topic Presentations [PRESENCIAL][Collaborative on line international learning (COIL)] | 45 |
| Final test [PRESENCIAL][Individual presentation of projects and reports] | 5 |
| Writing of reports or projects [AUTÓNOMA][Guided or supervised work] | 175 |
| Total horas: 300 | |

10. Bibliography and Sources

| Author(s) | Title/Link | Publishing house | City | ISBN | Year | Description |
|-----------|------------|------------------|------|------|------|-------------|
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