COURSE DATA

DATA SUBJECT

Code: 36903
Name: Chemistry Degree Final Project Dual Mention
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1110 - Degree in Chemistry	Facultat de Química	4	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1110 - Degree in Chemistry	Trabajo Fin de Grado de Química Mención Dual	ELECTIVES

COORDINATION

MONLEON VENTURA ALICIA

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SUMMARY

The Final Degree Project - Dual Mention (TFG) is a mandatory subject worth 12 credits, scheduled to be taken in the 8th semester (4th year) of the Chemistry Degree - Dual Mention. Its objective is to enable the student to apply the knowledge acquired throughout the degree by carrying out a technical or basic or applied research project related to one of the many fields inherent to chemistry. Therefore, it must be completed in the final phase of the Study Plan and must be oriented towards the evaluation of the competencies associated with the degree (as detailed in the Verifica document).

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

R4-OBLIGATION TO HAVE PREVIOUSLY PASSED THE FOLLOWING SUBJECTS:

34183 - General Chemistry I

34184 - General Chemistry II

34185 - Chemistry Laboratory I

34186 - Chemistry Laboratory II

34187 - Mathematics I

34188 - Mathematics II

34189 - Physics I

34190 - Physics II

34191 - Biology

34192 - Computer Applications in Chemistry

34193 - Physical Chemistry I

34196 - Physical Chemistry Laboratory I

34199 - Inorganic Chemistry II

34201 - Inorganic Chemistry Laboratory I

34229 - Analytical Chemistry II

34231 - Analytical Chemistry Laboratory I

36450 - Analytical Chemistry I

36452 - Inorganic Chemistry I

36453 - Organic Chemistry I

36454 - Organic Chemistry II

36455 - Organic Chemistry Laboratory I

To be able to take the subject, the student must have been selected to enroll in the Chemistry Degree - Dual Mention option. Additionally, the student must enroll in all the credits necessary to complete the degree. The Final Degree Project - Dual Mention will be evaluated once the requirements established in the TFG instruction document have been met.

COMPETENCES / LEARNING OUTCOMES

1110 - Degree in Chemistry

Act autonomously in learning, making informed decisions in different contexts, forming judgements based on experimentation and analysis, and transferring knowledge to new situations.

At the end of the course, the student will be able to address new problems and develop strategies to solve them.

At the end of the course, the student will be able to assess risks in the use of chemical substances and laboratory procedures.

At the end of the course, the student will be able to identify chemical processes in everyday life.

At the end of the course, the student will be able to implement sustainable and environmentally friendly methodologies.

At the end of the course, the student will be able to relate theory and experimentation.

At the end of the course, the student will be able to solve problems effectively.

At the end of the course, the student will demonstrate inductive and deductive reasoning skills.

At the end of the course, the student will demonstrate the ability to analyse, synthesise and apply critical reasoning.

At the end of the course, the student will relate chemistry to other disciplines.

Collaborate effectively in teams, assuming responsibilities and leadership roles and contributing to collective improvement and development.

Communicate effectively, both orally and in writing, adapting to the characteristics of the situation and the audience.

Contribute to the design, development and implementation of solutions that address social needs, taking the Sustainable Development Goals as a reference.

Demonstrate critical and self-critical reasoning within the field of study, considering aspects such as professional ethics, moral values and the social implications of the different activities undertaken.

Evaluate, interpret and synthesise chemical data and information.

Express oneself correctly, both orally and in writing, in any of the official languages of the Valencian Community.

Propose creative and innovative solutions to complex situations or problems within the field of study, in order to respond to diverse professional and social needs.

Understand and recognise, from within the discipline, inequalities based on sex and gender in society; integrate different needs and preferences related to sex and gender into problem-solving and solution design.

DESCRIPTION OF CONTENTS

1. Experimental and/or theoretical works.

The TFG is an autonomous and individual project that each student must carry out under the supervision of a company tutor and an academic tutor. The experimental and/or theoretical works related to the Degree will be developed in the entity where the Dual Mention is pursued.

2. Review and bibliographic research works.

The TFG is an autonomous and individual project that each student must carry out under the supervision of a company tutor and an academic tutor. Review and bibliographic research works will be focused on different topics related to the Degree.

3. Theoretical works.

The TFG is an autonomous and individual project that each student must carry out under the supervision of a company tutor and an academic tutor. Theoretical works where the student proposes all the phases of development of a hypothetical research project related to the Degree.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the bachelor's thesis	0,00
Presentation and defence of the bachelor's thesis	0,00
Total hours	**0,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the bachelor's thesis	0,00
Preparation of the bachelor's thesis project	90,00
Total hours	**90,00**

TEACHING METHODOLOGY

The TFG will be developed individually by each student under the supervision of a company tutor and an academic tutor. The topic will be established by the tutors within the framework of the training program.

Three types of TFG are considered:

a) Experimental and/or theoretical works related to the Degree that will be developed in the entity where the Dual Mention is pursued.

b) Review and bibliographic research works, focused on different topics related to the Degree.

c) Theoretical works where the student proposes all the phases of development of a hypothetical research project related to the Degree.

All students must submit a report of the work carried out and defend it in a public session.

The TFG report must be between 20 to 30 pages, excluding the bibliography, font size 12, line spacing 1.15, and margins of 2.5 cm. The report must be written entirely in English.

NO ANNEXES ARE ALLOWED. The general model (annex VIa) will be used for the cover, and the content will be structured in the following sections:

- Summary (in two of the accepted languages)

- Index

- Introduction

- Objectives

- Experimental Part

- Results and discussion

- Conclusions

- Bibliography (following the format established in annex VIb)

The oral defense of the TFG will be carried out by the students in a public and face-to-face session. The presentation will last a maximum of 15 minutes, during which the student must present a summary of the submitted report in accordance with the current regulations of the Faculty of Chemistry. Subsequently, the tribunal may ask questions and/or request clarifications they deem appropriate, lasting a maximum of 15 minutes.

EVALUATION

The Dual Mention Committee will propose the evaluation panel for the TFG - Dual Mention, which will be approved by the TFG Committee. The panel is made up of two professors from the Faculty of Chemistry and a person linked to the business world outside the participating companies. The tutors of a TFG-Dual Mention cannot under any circumstances be part of the panel responsible for the evaluation.

The oral defense of the TFG will be carried out by the students in a public and face-to-face session. Subsequently, the tribunal may ask questions and/or request clarifications they deem appropriate.

The tribunal will evaluate the submitted report (20%), the oral presentation (40%), and the defense (40%), according to the attached model.

The tribunal will sign a record reflecting the agreements adopted regarding the final grade of each student. This final grade will be the weighted average of the score given by the tutors (20%) and the evaluation tribunal (80%). The tribunal may meet with the tutors, if deemed appropriate, to obtain clarifications or resolve discrepancies that may arise.

The minimum grade from both parts (tutors and tribunal) must be 5.0 to pass the subject.

REFERENCES

- Reglament del treball fi de grau aprovat pel Consell de Govern en sessió ordinaria del 20 de desembre

de 2011. http://www.uv.es/quimdocs/graus/treball_fi_grau/reglament.pdf

- Pàgina web de la Facultat de Química: http://www.uv.es/quimica (pestanya Graus / TFG)

- Compromiso ético con el Código Europeo de conducta

http://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020-ethics_code-of-conduct_en.pdf