

**COURSE DATA****DATA SUBJECT**

Code: 36903
Name: Chemistry Degree Final Project Dual Mention
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2025-26

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

GOMEZ GARCIA CARLOS JOSE

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

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Act autonomously in learning, making well-founded decisions in various contexts, forming judgements based on experimentation and analysis, and applying knowledge to new situations.

Address new problems and propose strategies to solve them.

Collaborate effectively in work teams, assume responsibilities and leadership roles, and contribute to collective improvement and development.

Communicate effectively both orally and in writing, adapting to the context and audience.

Contribute to the design, development and implementation of solutions that respond to social demands, using the Sustainable Development Goals as a reference.

Demonstrate both inductive and deductive reasoning skills.

Demonstrate critical and self-critical thinking, considering professional ethics, moral values and social implications of the different activities carried out throughout the degree.

Demonstrate the ability to analyse, synthesise and reason critically.

Evaluate, interpret and synthesise chemical data and information.

Evaluate the risks involved in the use of chemical substances and laboratory procedures.

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

Identify chemical processes in everyday life.

Implement sustainable and environmentally friendly methodologies.



Propose creative and innovative solutions to complex situations or problems in the field, addressing diverse professional and social needs.

Relate chemistry to other disciplines.

Relate theory to experimentation.

Solve problems effectively.

Understand and analyse, from the perspective of the degree programme, social inequalities based on sex and gender; integrate gender-sensitive approaches 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:

- Experimental and/or theoretical works related to the Degree that will be developed in the entity where the Dual Mention is pursued.
- Review and bibliographic research works, focused on different topics related to the Degree.
- 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 ordinària 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



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Course Guide

36903 Chemistry Degree Final Project Dual Mention

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