Course guide
820531 - QOQ - Organic Chemistry

Last modified: 19/06/2026

Unit in charge: Barcelona East School of Engineering
Teaching unit: 713 - EQ - Department of Chemical Engineering.

Degree: BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Compulsory subject).

Academic year: 2026 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: JUAN TORRAS COSTA

Others:

Primer quadrimestre:
ADRIÁN FONTANA ESCARTIN - Grup: M2
JOSE IGNACIO IRIBARREN LACO - Grup: M2

Segon quadrimestre:
JUAN TORRAS COSTA - Grup: M1
JUAN CARLOS ESTEBAN AHUMADA CASTILLO - Grup: M1
DAVID ZANUY GOMARA - Grup: M2

PRIOR SKILLS

It is necessary for the student to have prior knowledge of general chemistry (atomic structure, chemical bonding, thermodynamics and kinetics). Also, it is necessary for him to have basic knowledge of the structure, formulation and nomenclature of organic molecules.

REQUIREMENTS

QUÍMICA - Prerequisit

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CEQUI-19. Understand mass and energy balances, biotechnology, mass transfer, separation operations, chemical reaction engineering, the design of reactors, and the recovery and processing of raw materials and energy resources.

Transversal:
3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

No disponible

STUDY LOAD

Type	Hours	Percentage
Self study	90,0	60.00
Hours large group	60,0	40.00

Total learning time: 150 h

CONTENTS

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 17h 35m
Theory classes: 8h
Self study : 9h 35m

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 23h 40m
Theory classes: 10h
Self study : 13h 40m

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 19h
Theory classes: 7h
Self study : 12h

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 21h 40m
Theory classes: 8h
Self study : 13h 40m

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 20h 35m
Theory classes: 8h
Self study : 12h 35m

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 30h 21m
Theory classes: 11h 01m
Self study : 19h 20m

No disponible

Description:
No disponible

Specific objectives:
No disponible

Related activities:
No disponible

Full-or-part-time: 21h 20m
Theory classes: 8h
Self study : 13h 20m

GRADING SYSTEM

Any academic fraud, plagiarism or use or possession of unauthorised means in an assessment activity leads to a mark of zero (0) for the affected test or assignment. Furthermore, in accordance with the University's regulations, if disciplinary proceedings are initiated the subject is recorded as "Pending Assessment" until a decision is reached. These incidents are managed in accordance with the **Action Framework for Academic Integrity in Assessment at the UPC**.

BIBLIOGRAPHY

Basic:
- Wade, L. G. Química orgánica. 7ª ed. México: Addison-Wesley, 2012. ISBN 9786073207904.
- Hart, Harold... [et al]. Química orgánica. 12ª ed. Madrid [etc.]: McGraw-Hill, cop. 2007. ISBN 9788448156572.
- Carey, Francis A. Química orgánica [on line]. 9ª ed. México [etc.]: McGraw-Hill, 2014 [Consultation: 29/04/2020]. Available on: http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=5641. ISBN 9781456239077.
- Ege, Seyhan N. Química orgánica : estructura y reactividad. Barcelona [etc.]: Reverté, 1997. ISBN 8429170650.
- Gorchs, R.; Galán, A. Química Orgànica : estudi, reactivitat i aplicació dels principals compostos orgànics [on line]. Barcelona: Edicions UPC, 2003 [Consultation: 27/06/2016]. Available on: http://hdl.handle.net/2099.3/36492. ISBN 8483017393.

RESOURCES

Hyperlink:
- Apunts d'Atenea

Other resources:
Course notes
Problems notebook
Solved Problems Notebook