

Academic plan of study (Degree of Chemistry)

First year

Annual subjects

Course	Credits	Type
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Mathematics (*)	12	Basic
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First semester

Course	Credits	Type
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General chemistry I	6	Basic
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Basic laboratory operations I (*)	6	Basic
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General physics I	6	Basic
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Crystallography, mineralogy and geochemistry (*)	6	Basic
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Second semester

Course	Credits	Type
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General chemistry II (*)	6	Basic
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Basic laboratory operations II	6	Basic
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General physics II	6	Basic
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Biology	6	Basic
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Second year

Annual subjects

Course	Credits	Type
Chemical engineering 9		Obligatory

First semester

Course	Credits	Type
Analytical chemistry I (*)	6	Obligatory
Physical chemistry I	6	Obligatory
Organic chemistry I	6	Obligatory
Electromagnetic properties of matter 3		Obligatory
Inorganic chemistry I	6	Obligatory

Second semester

Course	Credits	Type
Analytical chemistry instruments I (*) 6		Obligatory
Physical chemistry II	6	Obligatory
Lab of inorganic chemistry I	6	Obligatory
Lab of organic chemistry (*)	6	Obligatory

Third year

First semester

Course	Credits Type	
Analytical chemistry instruments II	6	Obligatory
Atomic - molecular structure and spectroscopy (*)	6	Obligatory
Organic chemistry II (*)	6	Obligatory
Inorganic Chemistry II (*)	6	Obligatory
Lab of inorganic chemistry II (*)	6	Obligatory

Second semester

Course	Credits Type	
Lab of analytical chemistry (*)	6	Obligatory
Lab of physical chemistry	6	Obligatory
Synthesis and Structural Determination of Organic Compounds Lab (*)	6	Obligatory
Preparation and implementation of projects	6	Obligatory
Optional 1	6	Optional

Fourth year

First semester

Course	Credits Type	
Materials science	6	Obligatory
Optional 2	6	Optional
Optional 3	6	Optional
Optional 4	6	Optional
Optional 5	6	Optional

Second semester

Course	Type	
Biochemistry (*)	9	Obligatory
Optional 6	6	Optional
Degree final projects	15	Obligatory

Optional subjects

Annual subjects

Name of the subject Credits

External practices 12

First semester

Course	Credits
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Chemical analysis of biological and environmental samples (*)	6
Analysis of the olive oil and other components of the Mediterranean diet (*)	6
Technology of olive oil	6
Applied vibrational spectroscopy	6
Applied physical chemistry (*)	6
Bioinorganic chemistry (*)	6
Inorganic chemistry of natural systems (*)	6
Chemistry of heterocyclic compounds	6

Second semester

Course	Credits
Quality management. Implementation in a test laboratory (*)	6
Environmental physical chemistry (*)	6
Radiochemistry	6
Chemistry of natural products (*)	6
Design of organic synthesis (*)	6

Foreign students are allowed, if included in their study contract, to take up to a maximum of 24 credits by performing some academically directed work. To see the rules that regulate this kind of activities, click [here](#).

(*) Courses with support in English.

For the syllabus of the courses in English or with support in English click [here](#).

For the syllabus of all courses click [here](#).