Academic plan of study (Degree of Chemistry)

First year

Annual subjects

Course	Credits	Type
Mathematics (*)	12	Basic

First semester

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

Second semester

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

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

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.