

Chemistry courses

Duration: 4 Years

Language: English

Number of credits: 240 in total (60 every year)

The courses that the students will have to complete before graduation are:

FIRST YEAR

Chemistry I (6 credits)
Chemistry II (6)
Mathematics (9)
Biology (6)
Applied Statistics (6)
Physics (9),
Bridging courses in Chemistry (6)
Biochemistry (6)
Informatics and Documentation (6)

SECOND YEAR

Analytical Chemistry (6 credits)
Thermodynamics and Transport
Phenomena (9)
Inorganic Chemistry I (9)
Instrumental Analysis (9)
Organic Chemistry I (6)
Crystallography (3)
Molecular Structure (6)
Inorganic Chemistry II (6)
Organic Chemistry II (6)

THIRD YEAR

Spectroscopy and Chemical Kinetics (9
credits)
Separation techniques (5)
Chemometrics (4)
Analytical Chemistry Laboratory (3)
Physical Chemistry Laboratory (3)
Advanced Inorganic Compounds (9)
Inorganic Chemistry Laboratory (3)
Structural Determination (4.5)
Organic Synthesis (4.5)
Organic Chemistry Laboratory (3)
Advanced Organic Chemistry Laboratory
(3)
Chemical Engineering (6)
Citizenship (3)

FOURTH YEAR

Materials Science (6 credits)
External Internship Practices (12)
Bachelor Final Work (12)

Elective courses (30 credits)*

Elective Courses*: Evaluation and Control of Quality (3), Molecular Modelization (3), Actual Topics in Inorganic Chemistry (3), Polymer Chemistry (3), Applied Enzymology (3), Nucleation and Crystal Growth (3), Industrial Organic Chemistry (3), Industrial Inorganic Chemistry (3), Applied Electrochemistry (3), Environmental Analysis and Monitoring (3), Economics and Business Management (3), Projects en Chemistry (3), Synthesis Design (3), Catalysis (3), Computational Chemistry (3), Special Topics in Analytical Chemistry (3), New Materials and Nanoscience (3)

() Elective courses will be active only if more than 10 students are enrolled.*