

Chemistry

Degree Sciences, technologies, health Specialisation Chemistry Course Chemistry

Aims

The chemistry degree provides a course in the fields of chemistry and, for some students, a complementary course in biology. It provides students with highly in-depth training in the fields of material sciences and analytical sciences.

Access to the courses in the first year is via one of two general and multidisciplinary portals, "Mathematics-Computer Sciences-Physics-Chemistry" (MIPC), and biology-geology-chemistry (BGC), which take place over the first two terms of the degree course. This portal helps students, through a clearly interdisciplinary orientation, to acquire and reinforce the fundamental scientific skills and knowledge needed to go on to a specialisation from the second year.

Admission

§ Baccalaureate, preferably scientific.

Skills

- § Describing matter (at the microscopic and macroscopic scale)
- § Developing and formulating observations
- § Defining and applying forms of experimentation
- § Interpreting experimental results

After the course

Continuing studies

- § Vocational degrees (with preparation)
- § Engineering schools
- § Master's degrees in the field of Sciences, Technologies, Health
- § MEEF (teaching) master's degree

Job openings

The course is part of a programme providing openings at the master's and doctorate level in a wide range of sectors:

- § Industry: Engineering (R&D, Production, quality control, etc.)
- § Research and Teaching: Research engineers (CNRS, University), Lecturer-Researcher, teachers

Contact

School

+33 (0) 4 77 48 51 02

Tuition fees

Fees 2017/2018

Main registration: €184
Preventive medicine: €5.10

Social security: €217





Courses

term 1 - Biology Geology Chemistry	Hours	ects	term 2 - Biology Geology Chemistry	Hours	ects
CU BIOLOGY 1: LEVEL OF ORGANISATION OF LIFE: CELLS AND ORGANISMS	58	6	CU BIOLOGY 2: NUCLEIC ACIDS, GENES, GENOMES AND BIODIVERSITY	60	6
CU GEOLOGY 1: EARTH & UNIVERSE, STRUCTURE OF INTERNAL & EXTERNAL ENVELOPES	48	6	CU GEOLOGY 2: INTERNAL AND EXTERNAL DYNAMICS OF THE EARTH, GEORESOURCES, GEOMATERIALS	48	6
CU CHEMISTRY 1: ATOMS AND THERMODYNAMICS	60	6	CU CHEMISTRY 2: CRYSTALLOGRAPHY, KINETICS, PH-METER, COMPLEXOMETRY	60	6
CU MATHEMATICAL TOOLS FOR THE EXPERIMENTAL SCIENCES 1	28	3	CU MATHEMATICAL TOOLS FOR THE EXPERIMENTAL SCIENCES 2	22	3
CU PHYSICS TOOLS FOR THE EXPERIMENTAL SCIENCES 1	30	3	CU PHYSICS TOOLS FOR THE EXPERIMENTAL SCIENCES 2	30	3
CU LINGUISTIC TOOLS FOR THE			CU LINGUISTIC TOOLS FOR THE EXPERIMENTAL SCIENCES 2	24	2
EXPERIMENTAL SCIENCES 1	24	3	CU DIGITAL TOOLS AND CULTURE FOR THE	4	2
CU DIGITAL AND TEXTUAL TOOLS CU WITH 2 STUDY ELEMENTS:		3	EXPERIMENTAL SCIENCES 2		
CU Digital tools for the experimental sciences 1 CU Textual tools for the experimental sciences	20 5	2 1	CU GENERAL ENGLISH B2	18	2
CO Textual tools for the experimental sciences	J	1			
term 1 - Maths, Engineering Sciences, Chemistry	Hours	ects	term 2 - Maths I.T. Physics Chemistry	Hours	ects
CU MATHEMATICS	60	6	CU MATHEMATICAL TOOLS II	50	5
CU LT.	60	6	CU I.T. TOOLS	52	5
CU PHYSICS	60	6	CU PHYSICS II	60	6
CU CHEMISTRY	60	6	CU CHEMISTRY II	60	6
CU MATHEMATICAL TOOLS	30	3	CU PRACTICAL APPROACH IN PHYSICS/CHEMISTRY	7 60	6
CU METHODOLOGICAL AND SCIENTIFIC TOOLS	30	3	CU GENERAL ENGLISH B2	18	2
Expression and communication in languages	16	1	00 02.134.12 21.102.23.122		
Textual tools Digital tools and culture	1 14	1	term 4 - Chemistry	Hours	ects
term 3 - Chemistry	Hours	ects	CU GENERAL CHEMISTRY 2	50	5
			CU MINERAL CHEMISTRY	40	4
CU GENERAL CHEMISTRY 1	30	3	CU MATHEMATICS 2	40	4
CU ORGANIC CHEMISTRY	50	5			
CU CONDUCTING EXPERIMENTS IN CHEMISTRY	30	3	CU CENERAL ENGLISH PA	20	2
CU MATHEMATICS 1	50	5	CU GENERAL ENGLISH B2	24	3
CU GENERAL ENGLISH B2	18	2	CU OPEN CREDITS	20	2
CU PERSONAL CAREER PROJECT	20	2	CHOICE OF SET OF SUBJECTS: Chemistry - 3 mandatory CUs:		10 10
CHOICE OF SET OF SUBJECTS: Chemistry - 3 mandatory CUs:		10 10	CU Chemistry-Biology Interface CU Biosourced Materials	30 40	3 4
CU Chemometrics	30	3	CU Recent developments in chemistry	30	3
CU Materials CU Computer sciences	20 50	2 5	Chemistry-biology - 2 mandatory ČUs: CU Metabolism, nutrition and growth in	50	10 5
Chemistry-biology - 2 mandatory CUs: CU genes: transmission and expression	50	10 5	eukaryotes and prokaryotes CU Some applications of biology	44	5
CU Biomolecules: structures, reactions and energy	50	5	CO Some applications of blology		
aspects term 5 - Chemistry	Hours	ects	term 6 - Chemistry	Hours	ects
CU HOMOGENOUS CINETICS, CINETICS ELECTROCHEMISTRY	40	4	CU HETEROGENOUS CINETICS	20	2
			CU THERMOCHEMISTRY 2	30	3
CU THERMOCHEMISTRY 1	20	2	CU ORGANIC CHEMISTRY 2	40	4
CU ORGANIC CHEMISTRY 1	30	3	CU MINERAL CHEMISTRY 2	40	4
CU MINERAL CHEMISTRY 1	30	3	CU MATERIALS 2	40	4
CU MATERIALS 1	40	4	CU ANALYTICAL CHEMISTRY	20	2
CU CHROMATOGRAPHY AND SPECTROSCOPY 1	30	3	CU ENGLISH AND SCIENTIFIC COMMUNICATIONS	24	3
CU CHROMATOGRAPHY AND SPECTROSCOPY 2	30	3	CU OPEN CREDITS	20	2
CU QUANTIC CHEMISTRY	30	3	CHOICE OF CHEMISTRY SUBJECTS - 1 CU FROM:		
CU ENGLISH AND SCIENTIFIC COMMUNICATIONS	S 24	3			

CAREER PREPARATION 1 - 1 CU FROM

CU Preparation for continuing studies or employment	20	2
CU Preparation for research or study project	20	2
CU Introduction to primary-school teaching	20	2
CU ASTEP: Support in science and technology	25	2
in primary school 1		

CU Chemistry and environment	28	3
CU Formulation	30	3
CU ATIC: acquisition and processing of data in chemistry	28	3
CAREER PREPARATION 1 - 1 CU FROM: CU internship in a company or laboratory CU Preparation for research or study project CU Internship in primary school CU ASTEP: Support in science and technology in primary school 2	10	3 3 3 3