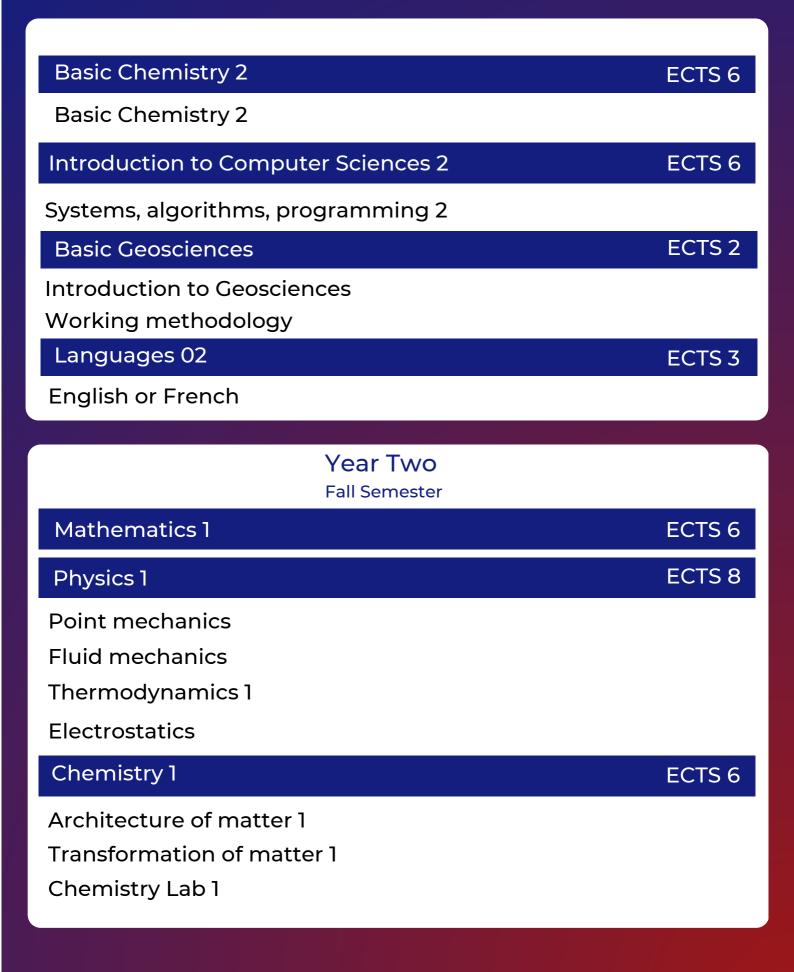


Year One Fall Semester

Basic Mathematics 1	ECTS 6
Basic Maths 1	
Working Methodology - Basic Maths 1	
Basic Physics 1	ECTS 6
Basic Physics 1	
Working methodology - Basic Physics 1	
Basic Chemistry 1	ECTS 6
Basic Chemistry 1	
Working methodology - Basic Chemistry 1	
Introduction to Computer Science 1	ECTS 6
System, Algorithms and Programming 1	
Working methodology - Intro to Computer Sciences 1	
Languages 01	ECTS 6
English or French	
Year One Spring Semester	
Basic Mathematics 2	ECTS 7
Algebra, Probability, Statistics	
Analysis	
Basic Physics 2	ECTS 6
Basic Physics 2	





# U AZ FRENCH-AZERBAIJANI UNIVERSITY

# BSc. of Chemistry

Chemical Engineering 1	ECTS 4
Intro to Chemical Engineering	
Chem. Eng. Lab 1 (Physics)	
Computer sciences 1	ECTS 3
Computer Science for Physics and Chemistry	
Languages 1	ECTS 3
English or French	
Year Two	
Spring Semester	
Spring Semester Mathematics 2	ECTS 6
	ECTS 6 ECTS 6
Mathematics 2	
Mathematics 2 Physics 2	
Mathematics 2 Physics 2 Oscillators / waves / optics	
Mathematics 2 Physics 2 Oscillators / waves / optics Physics Lab 1	ECTS 6
Mathematics 2 Physics 2 Oscillators / waves / optics Physics Lab 1 Chemistry 2	ECTS 6
Mathematics 2Physics 2Oscillators / waves / opticsPhysics Lab 1Chemistry 2Architecture of matter 2	ECTS 6
Mathematics 2Physics 2Oscillators / waves / opticsPhysics Lab 1Chemistry 2Architecture of matter 2Transformation of matter 2	ECTS 6
Mathematics 2Physics 2Oscillators / waves / opticsPhysics Lab 1Chemistry 2Architecture of matter 2Transformation of matter 2Chemistry Lab 2	ECTS 6 ECTS 9
Mathematics 2Physics 2Oscillators / waves / opticsPhysics Lab 1Chemistry 2Architecture of matter 2Transformation of matter 2Chemistry Lab 2Chemical Engineering 2	ECTS 6 ECTS 9

## U AZ FRENCH-AZERBAIJANI UNIVERSITY

# BSc. of Chemistry

ECTS 3

## Languages 2

English or French

Year Three Fall Semester	
Mathematics 3	ECTS 5
Physics 3	ECTS 5
Thermodynamics 2	
Electricity for CS and CE and L1S1EE	
Chemistry 3	ECTS 9
Reactivity 1 (industrial chem.) Thermodynamics and kinetics Chemistry Lab 3	
Physical Chemistry 1	ECTS 8
Molecular Chemistry 1 Scientific Instrumentation signal and data processing Molecular Dynamics/ Cheminfo	
Languages 3	ECTS 3



Year Three Spring Semester

Mathematics 4	ECTS 5
Physics 4	ECTS 3
Fluid mechanics 2	
Chemistry 4	ECTS 9
Reactivity 2 (inorganic) Spectroscopies and electrochemistry Chemistry Lab 4	
Physical Chemistry 2	ECTS 7
Quantum Chemistry Chemical Bond and Spectroscopy symetry Chemistry Lab 5	
Languages 4	ECTS 3
English or French	
Professional preparation 1	ECTS 3
Soft skills	

Year Four Fall Semester

Mathematics 5

ECTS 3

#### **Chemistry 5**

- Polymers and fomulation
- Analytical chemistry
- Applied chemistry
- **Experimental chemistry 5**

#### **Physical Chemistry 3**

- Spectroscopy
- Catalysis and environment
- Molecular chemistry 2
- **Chem Project**
- Phys Chem Lab

#### Languages 5

**English or French** 

Professional preparation 2

Scientific writing

Year Four Spring Semester

Chemistry 6

Chemistry project

Physical Chemistry 4

Analytical Chemistry 2

**Electrochemistry 2** 



#### ECTS 10

ECTS 11

#### ECTS 3



### ECTS 9

ECTS 3





Professional preparation 3

Management and entrepreneurship

Internship

Internship (8 weeks)

ECTS 15

ECTS 3