

## MSc. of Physical Chemistry / Chemical Engineering ChemoInformatics specialisation

## Year One

Fall Semester

Phys Chem 1 ECTS 12

Kinetics and Thermodynamics

Analytical and physical chemistry, Pratical courses

Optical spectroscopies

Separation methods and mass spectometry

Chem Eng 1 ECTS 9

Polymer chemistry

Petrochemistry

Membrane separation

Info 1 ECTS 9

Project-mode applied programming in Python Introduction to Data Science

## Year One

**Spring Semester** 

Phys Chem 2 ECTS 9

Inorganic analysis and speciation

Electrochemistry

**NMR Spectroscopy** 

Chem Eng 2 ECTS 6

Advanced transfers

Polymer Reaction Engineering



## MSc. of Physical Chemistry / Chemical Engineering ChemoInformatics specialisation

Info 2 ECTS 6

Chemical databases and Chemoinformatics

Molecular Modeling + Quantum Chemistry

5 week Internship

ECTS 9

Internship 5 weeks

**Year Two** 

Fall Semester

Chemoinformatics

ECTS 9

Chemoinformatics 1

Chemoinformatics 2

Chemoinformatics 3

Technology and applications

ECTS 12

Data mining

Internet technologies

Découverte de médicaments

Structure-based computer assisted drug design

Modelling ECTS 9

Structural biology and molecular modelling

Molecular dynamics simulation

Advanced quantum chemistry

**Year Two** 

**Spring Semester** 

Research or Engineer Internship

ECTS 30

Research or Engineer Internship