

Field of study **Sciences and engineering**

Training available in

Initial training

How to apply :

<https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications>

Course venue :

Campus Marne la Vallée - Champs sur Marne - Bâtiment Lavoisier 5 Boulevard Descartes 77420 Champs-sur-Marne
Bâtiment Lavoisier les mercredis et jeudis

Calendar :

Second semester

Contacts :

HOCHLAF Majdi (M1-M2)
Academic coordinator

LINGUERRI Roberto (M1)
Academic coordinator

DAULT Marie-laure (M1)

Academic secretary
marie-laure.dault@univ-eiffel.fr
Phone number : 01 60 95 77 68
Building : Lavoisier
Office : 106

More information :

For further details :

<https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux>

Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76



Master's degree Chemistry Chemistry



Institut Francilien des Sciences Appliquées (IFSA)

Master's degree M1

TO GET THERE

Students with a Licence degree in Chemistry; Chemistry and Physics; Chemistry and Biology

ACQUIRED SKILLS

Give students a broad foundation of knowledge on the structure, synthesis and analysis of matter, in relation to its reactivity.

YOUR FUTURE CAREER

After the first year, four second-year options are available:

- Molecular Physical Chemistry and Applications
- Chemistry of Bioactive Molecules
- Quality Analysis and Assurance (apprenticeship)
- Functional Polymers

The course is suitable for students with career objectives in either research or the professional world. The professional or research-based focus of this second-year Master's course is determined by the compulsory work placement in the second semester. Students can also enrol in a course at the French Higher Institute for Professorship and Education (INSPE) in chemistry, physics or physics and chemistry.

BENEFITS OF THE PROGRAM

This Chemistry Master's degree provides core training in methods for developing/synthesising, characterising and analysing the properties of molecules or materials. The course also includes modelling modules. The first-year programme covers all areas of chemistry, from physical chemistry to molecular chemistry, as well as certification and quality assurance. Students can specialise in each of these fields in the second year.

More information



PROGRAM

SEMESTER 1

Electrochimie (ECTS:3)
Chimie de Synthèse (ECTS:3)
Méthodes d'analyse spectroscopiques (ECTS:3)
Techniques d'analyse séparatives 1 (ECTS:3)
Anglais (ECTS:3)
Connaissance de l'entreprise (ECTS:3)
Stratégies de synthèse en chimie fine 1 (ECTS:3)
De la macromolécule au matériau polymère (ECTS:3)
Nanochimie (ECTS:3)
Biotechnologie et chimie fine (ECTS:3)
Biotechnologie des protéines recombinantes (ECTS:3)
Introduction à la Mécanique Quantique (ECTS:3)
Info programmation 1 (ECTS:3)
Modélisation en chimie (ECTS:3)
Chimie de l'environnement (ECTS:3)

SEMESTER 2

Techniques d'analyse RMN et introduction à l'IRM (ECTS:3)
Polymères biosourcés (ECTS:3)
Micelles émulsions mousses dispersions (ECTS:3)
Méthodes d'analyse de surface (ECTS:3)
Projet ou stage, cycle de conférences (ECTS:3)
Anglais scientifique (ECTS:3)
Stratégies de synthèse en chimie fine 2 (ECTS:3)
Bases cellulaires de la pharmacologie et toxicologie (ECTS:6)
Chimie des surfaces et bioarrays (ECTS:3)
Info programmation 2 (ECTS:3)
Applications de la physique et chimie quantique (ECTS:3)
Applications de la spectroscopie (ECTS:3)
Modélisation avancée (ECTS:3)
Polymères en solution et gels (ECTS:3)
Techniques d'analyse séparatives 2 (ECTS:3)