

Biological Chemistry

 **ECTS**
3 crédits **Etablissement(s)**
UFR Chimie **Volume horaire**
24h **Période de
l'année**
Semestre 1

En bref

- **Langue(s) d'enseignement:** Anglais
- **Forme d'enseignement :** Lecture and exercise
- **Ouvert aux étudiants en échange:** Non

Présentation

DESCRIPTION

This class will describe at the molecular level some principles governing the reactivity in enzymes and metallo-enzymes for different class of reactions (hydrolytic catalysis, redox catalysis) involved in different metabolic pathways. The focus will be made on the reaction mechanisms at the active sites.

OBJECTIFS

- bioinorganic chemistry in a biological context:
 - Presentation of the bio-inorganic domain
 - Hydrolytic processes (hydrolysis of peptides)
 - Redox reactions and dioxygen activation
- bioorganic chemistry in a biological context:
 - Reaction mechanisms in bioorganic chemistry
 - Metabolism of aminoacids
 - Metabolism of carbohydrates

Pour en savoir plus, rendez-vous sur > u-paris.fr/choisir-sa-formation

- Metabolism of nucleotides

HEURES D'ENSEIGNEMENT

Biological Chemistry	Cours Magistral	16h
Biological Chemistry	Travaux Dirigés	8h

PRÉ-REQUIS OBLIGATOIRES

knowledge and basic concepts in chemistry (organic and coordination chemistry, acid-base catalysis, redox reactions) and biochemistry (amino acids, proteins, enzymes, active site) from Bachelor's degree

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