

UE Biochemistry 1 - BIO131 -



ECTS
6 crédits



Composante
Département
de la licence
sciences et
technologies
(DLST)



Période de
l'année
Automne (sept.
à dec./janv.)

Diplômes intégrant cet élément

- Licence Chimie

- **Langue(s) d'enseignement:** Anglais
- **Ouvert aux étudiants en échange:** Non
- **Code d'export Apogée:** YAX1BC91

Présentation

Description

The different topics covered in the lectures concern nucleic acids (DNA, RNA), proteins, carbohydrates and lipids. In each case their structures, properties and in vivo assemblies will be presented to the students, all in relation to their different biological roles.

During the tutorial sessions, students will work on different exercises allowing them to detail and deepen the notions discussed in class. In addition, a significant part of the tutorials will be devoted to important reminders on concentration calculations and spectrophotometry.

During the practical sessions, students are introduced to laboratory materials and techniques by carrying out two electrophoresis, one of nucleic acids and the other of proteins.

Heures d'enseignement

TP	TP	8h
CM	CM	21h
TD	TD	30h

Pré-requis recommandés

Scientific knowledge (Biology and Chemistry) at Baccalaureate level

Période : Semestre 1

Compétences visées

- To know the nature, the structure and the physicochemical properties of biomolecules
 - Identify a biomolecule from its chemical formula
 - To know the techniques of analysis of biomolecules
 - To master the basic techniques of analysis of proteins and nucleic acids
-

Bibliographie

Biochemistry (D. Voet , J-G. Voet)

Biochemistry (L.Stryer, J.Berg, J.Tymoczko)

Biochimie Générale (J-H WEIL)

Infos pratiques

Contacts

Responsable pédagogique

Mohamed BENHAROUGA

✉ mohamed.benharouga@cea.fr

Lieu(x) ville

➤ Grenoble

Campus

➤ Grenoble - Domaine universitaire