

UE Experimental project in biology - BIO434 -



- > **Langue(s) d'enseignement:** Anglais
- > **Ouvert aux étudiants en échange:** Non
- > **Code d'export Apogée:** YAX4BI94

Présentation

Description

The objective of this course is to introduce students to the conduct of an experimental project in biology on one of the three themes proposed, namely "Plants and light", "Control of diauxia by the lactose operon in Escherichia coli" or "Biochemical and functional characterization of a protein of interest". The students work in pairs with the help of two teachers during personalized tutorials allowing the construction of the project (framing of the problem, choice of experiments, selection of protocols, interpretation of results). They also benefit from self-training materials that introduce the methods of constructing an experimental plan and analyzing scientific data. The experimental projects are carried out in semi-autonomous conditions during a 5-day mini-internship in a laboratory. This is a professionalizing UE insofar as the skills developed and evaluated correspond in part to those expected for a project manager.

Heures d'enseignement

UE Experimental project in biology - TD	TD	7,5h
UE Experimental project in biology - CM	CM	1h
UE Experimental project in biology - TP	TP	32h
Nouvelles heures d'enseignement	Tutorat	1,5h

Pré-requis recommandés

Theoretical and experimental knowledge in spectrophotometry, light microscopy, enzymology, protein purification, bacterial culture and genetics, mechanisms of photosynthesis, developmental responses to light in angiosperms (see BIO331, BIO332, BIO334, BIO431, BIO432)

Période : Semestre 4

Compétences visées

- Analyze a scientific question, conceive an experimental approach, carry out various experiments semi-autonomously, adapt a protocol to a given project, present and analyze experimental results;
- Organize one's work time, prioritize one's objectives, adapt a work plan in real time according to various constraints, work independently and/or in pairs (discuss choices and make decisions in pairs)
- Search for relevant information via various sources, report in writing and orally on the progress of a project.

Infos pratiques

Contacts

Responsable pédagogique

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