Program outline

This program gives students the opportunity to discover the interdisciplinary potential of Biology.

Program content

The basics of Cell Biology, Biochemistry, Physiology and Genetics are explained during the first three semesters. This knowledge is used to understand how to model physiological and pathological functions (e.g. the development of cancers, degenerative/genetic diseases etc.).

As of the fourth semester, the subjects of physics, chemistry and bioinformatics are introduced in order to support the multidisciplinary approach during the fifth semester.

Life imaging and analysis is carried out for all stages from the healthy or pathological molecule to the organ.

Semester 1:
› The cell, unity within diversity

Semester 2:
› The cell within the body

Semester 3:
› The modeling of physiological and pathological processes

Semester 4:
› Biology and interdisciplinarity

Semester 5:
› Life imaging (note: this fifth semester is proposed to students who spend only one semester abroad).

Contact

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Strengths

Scientific English: all biology classes are taught in English and the teaching material provided is also in English.

Distance learning: the minor subjects are often taught via distance learning. The teaching team provides high-performing training tools, regrouped on a Moodle platform which enables students to be coached throughout the course and, at the same time, to become independent in their learning.

Serious games and collaborative work: the teaching team has developed innovative pedagogic methods such as the design of blogs on specific interdisciplinary projects.

Visit the following page and click on “Parcours internationaux” to view a video (in French) describing these methods: http://www.teletoile.u-bordeaux2.fr/2012_2013/una_cra/Accueil.html

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