MINOR
International Bachelor Degree Program
Biosourcing: sustainable use & transformation of biosources

Program outline

This program presents options for the use and transformation of bio-resources as an alternative to non-renewable resources. Moreover, the program provides knowledge about innovation and sustainable resource management.

The course content is designed with significant advice from industry partners, and in collaboration with the University of Waterloo (Ontario, Canada).

Program content

Bio-sourcing includes three types of production of materials and precursors:
› Use and processing of natural renewable resources
› Biological synthesis of chemicals
› Microbiological synthesis of chemicals.

Semester 1
Waterloo Coordination
› Resource management and renewable resources.

Semester 2
Bordeaux Coordination
› Introduction to biological systems.

Semester 3
Waterloo Coordination
› Methods and tools for bio-syntheses. AND Innovation and Project Management.
› Laboratory research project 1.

Semester 4
Bordeaux Coordination
› Environmental impact and resource efficiency.

Semester 5
Bordeaux Coordination
› Design of bio-based compounds and materials. AND Laboratory research project 2.

Semester 6
Waterloo Coordination
› Training internship (French students at Waterloo).

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Strengths

The content of this program is of increasing importance to all companies that work on the use and transformation of bio-resources.

As a result of the interdisciplinary training, this program will help graduates obtain professional positions within the domain of bio-resource based science and green processes.

Thanks to the Canadian-French experience, graduates will have proven their skills in adapting to international challenges.

The international part of the program is based on shared teaching between the two universities, team work, student exchanges, a joint team-based research project, and a bilingual English/French experience as the course and educational documents provided are in English.

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