

New Master degree: BIM - BioInspired Materials

Owing to the multidisciplinary and even to the transdisciplinary assets of current research activities in material science, the purpose here is to establish a Master major, at the regional level, inspired from soft material sciences. The objectives of this project are manifolds.

Since the 2017 academic year, the curriculum of the first year of Medicine studies is available at the UPPA. The Nouvelle Aquitaine district and the Basque County both support the development of research activities in line with the environment, i. e. caring for resources valorization and preservation. But there is no such specialization proposed in terms of education, be it at the regional or national levels.

Through this Master majoring in bioinspired materials science, the UPPA therefore wishes to

- * offer suitable future perspectives to first year medicine students, who eventually enroll in biology, chemistry or physics
- * offer to local students an education in line with their way of life, fully integrated in their environment
- * become attractive at the international level through an education fully offered in English (120 ECTs are required over a two years period).

The first semester is composed of compulsory courses whereas, during the second and third semesters, elective courses are offered to satisfy the sensitivity of each student. The three first semesters will be devoted to strengthening students knowledge in biology, chemistry and physics. The fourth semester is an internship.

The main classes are basics in:

- * biochemistry,
- * cell biology,
- * polymer chemistry,
- * soft matter physics
- * and biophysics

Elective and advanced courses (Essential experimental skills; Transverse soft skills (bioinspired materials in a societal context, scientific writing and technology transfer); Elective advanced classes: Bioinspired materials and biotechnologies) are built on these 5 basic classes.

Elective classes are addressed by either internal or external experts in the field.