

## Marine Biotechnology applied to Cosmetics and Healthcare Products Development (C004327)

Due to Covid 19, the education and assessment methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

**Course size** *(nominal values; actual values may depend on programme)*

**Credits 3.0**      **Study time 75 h**      **Contact hrs**      32.0h

**Course offerings in academic year 2021-2022**

A (semester 1)      English      Gent

**Lecturers in academic year 2021-2022**

Meslet, Cladiere	BREST02	lecturer-in-charge
Hymery, Nolwenn	BREST02	co-lecturer
Kloaerg, Bernard	BREST02	co-lecturer

**Offered in the following programmes in 2021-2022**

<a href="#">International Master of Science in Marine Biological Resources</a>	<b>crdts</b>	<b>offering</b>
	3	A

**Teaching languages**

English

**Keywords**

**Position of the course**

**Contents**

Definition of cosmetic products, European settlement; Biology of skin and appendages; The physicochemical properties of cosmetic products; Raw materials for cosmetics products; Formulation of cosmetics products; Toxicology and security of cosmetic products; Research of new conservatives products; Algae in cosmetics products; Voluntary testing on cosmetics.

**Initial competences**

**Final competences**

Enable students to consolidate knowledge of the corporate world of cosmetics and the pertinent regulations. Cosmetic products represent more than 80 billions euros of turnover in Europe and constitute an area in perpetual change and renewal. A European directive introduced in July 2013 regulates cosmetic products' marketing. Companies have the obligation to declare the composition of all their products, and substances are increasingly banned because of their toxicity. Many companies are looking for alternative solutions and are turning to marine products in order to replace toxic synthetic molecules.

**Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

**Teaching methods**

Lecture, Project, Lecture: response lecture

**Extra information on the teaching methods**

The course will be held in form of lectures, case studies. External person who work in cosmetic domain help teacher. Practical experiment where students are trained how to create cosmetic products.

## **Learning materials and price**

### **References**

Manuel d'anatomie et de physiologie humaine

Bryan Derrickson (Auteur), Gérard G. Tortora (Auteur) - Manuel (broché). Paru en 03/2009

Biologie, cosmétologie BTS esthétique cosmétologie

G. Peyrefitte (Auteur), M.C. Martini (Auteur) - Scolaire / Universitaire (broché). Paru en 05/2013

### **Course content-related study coaching**

#### **Assessment moments**

continuous assessment

#### **Examination methods in case of periodic assessment during the first examination period**

#### **Examination methods in case of periodic assessment during the second examination period**

#### **Examination methods in case of permanent assessment**

Oral examination, Assignment

#### **Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible

#### **Extra information on the examination methods**

A report will be prepared. This report will describe the formulation of a cosmetics product, its realisation, and contain a description all raw materials. This work will be done in small groups (2 or 3 students)

Each group will deliver an oral presentation on their edited work.

#### **Calculation of the examination mark**