



MASTER OF SCIENCES, TECHNOLOGIES AND HEALTH - BIOTECHNOLOGIES JOINT MASTER PROGRAMME IN MARINE BIOTECHNOLOGY

IDENTITY CARD

- > Domain : Sciences, Technologies and Health
- > Full time course
- > Accessible en [Validation des Acquis \(VAE\)](#)
- > [120 ECTS credits](#)
- > 4 semesters
- > Course taught in English



REGISTRATION

<https://www.univ-larochelle.fr/formation/admission-inscription-et-scolarite/candidatures-et-inscriptions/candidater-universite-la-rochelle/>

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OBJECTIVES

PROGRAMME

● Mandatory ■ Course option

> Semester 1

- > Blue Biotechnology Business and R&D Management I ●

- Blue Biotechnology Business and R&D Management 1

Language used for teaching
English

Teaching time
60h (19h 30min lectures - 40h 30min tutorials)

6 ECTS credits

Course code
281-1-11

> Culture Collection and Biobanks ●

- Culture Collection and Biobanks

Language used for teaching
English

Teaching time
79h 30min (48h lectures - 31h 30min tutorials)

8 ECTS credits

Course code
281-1-31

> Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting ●

- Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting

Language used for teaching
English

Teaching time
60h (38h lectures - 10h tutorials - 12h practical work)

6 ECTS credits

Course code
281-1-51

> Marine Biodiversity for Marine Natural Products ●

- Marine Biodiversity for Marine Natural Products

Language used for teaching
English

Teaching time
40h (20h lectures - 5h tutorials - 15h practical work)

4 ECTS credits

Course code
281-1-41

> Marine Microbiome and Metagenomics ●

- Marine Microbiome and Metagenomics

Language used for teaching
English

Teaching time
59h (9h lectures - 50h practical work)

6 ECTS credits

Course code
281-1-21

> Semester 2

> Bioactivity Screening ●

- Bioactivity Screening

Language used for teaching
English

Teaching time
60h (35h lectures - 10h tutorials - 15h practical work)

6 ECTS credits

Course code
281-2-21

> Blue Biotechnology Business and R&D Management II ●

- Blue Biotechnology Business and R&D Management 2

Language used for teaching
English

Teaching time
60h (28h lectures - 32h tutorials)

6 ECTS credits

Course code
281-2-11

> Chemical Libraries ●

- Chemical Libraries

Language used for teaching
English

Teaching time
30h (20h lectures - 10h tutorials)

6 ECTS credits

Course code
281-2-31

> Marine Natural Products: Classes, Biological activity and Biosynthesis ●

- Marine Natural Products: Classes, Biological Activity and Biosynthesis

Language used for teaching
English

Teaching time
45h (45h lectures)

6 ECTS credits

Course code
281-2-41

> Work Placement ●

- Work Placement (8 weeks)

Language used for teaching
English

6 ECTS credits

Course code
281-2-01-STAG

> Semester 3

> Academic Research Integration ●

- Academic Research Integration

Language used for teaching
English

14 ECTS credits

Course code
281-3-01-STAG

> Aquaculture Biotechnology ■

● Advanced Breeding Programmes

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-44

● Aquaculture Systems and Seafood Processing

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-41

● Health and Welfare in Aquaculture

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-43

● Nutrigenomics and Fish

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-42

> Blue Biomass ■

● Bioreactor Design and Management

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-21

● Microalgal Biotechnology

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-23

- Microbial Biomass and Metabolite Production

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-22

- Seaweed Production

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-24

> Innovative Bioproducts for the Future ■

- Advanced Characterisation Methods for Marine Natural Products Identification

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-14

- Biological Profiling of Marine Natural Products

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-11

- Marine Natural Products for Health, Wellness and Food

Language used for teaching
English

Teaching time
50h (40h lectures - 10h tutorials)

4 ECTS credits

Course code
281-3-13

- Optimisation of Marine Natural Products

Language used for teaching
English

Teaching time
40h (31h lectures - 9h practical work)

4 ECTS credits

Course code
281-3-12

> Marine Biorefinery ■

- Developing Biorefinery Processes

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-31

- Functionalisation of Marine Derived Biomaterials

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-33

- Marine Biomass Functional Ingredients Extraction

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-32

- Marine Whole-Cell Factories

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code
281-3-34

> Semester 4

> Work-Based Learning ●

- Work Placement (24 weeks)

Language used for teaching
English

30 ECTS credits

Course code
281-4-01-STAG

AFTERWARDS

Information subject to change

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