

Cycle view of the study programme

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Compulsory courses (B1 : 60Cr, B2 : 30Cr)

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|------------|---|----|----|----|----|---|-----|---|
| OCEA0075-1 | <i>Physical oceanography and marine meteorology</i> (english language) - <i>Theory and practice</i> - JeanMarie BECKERS - <i>Fieldwork trip</i> - JeanMarie BECKERS - [3d FW] | B1 | Q1 | 30 | 15 | - | [+] | 6 |
| OCEA0086-1 | <i>Chemical oceanography</i> (english language) - Alberto BORGES - [2d FW] | B1 | TA | 20 | 5 | | [+] | 4 |
| OCEA0087-1 | <i>Satellite oceanography</i> (english language) - Aida ALVERA AZCARATE | B1 | Q1 | 15 | 15 | - | | 3 |
| GEOL1039-1 | <i>Geological oceanography</i> - <i>From theory to field work</i> - Nathalie FAGEL - [1d FW] - <i>Additional field work</i> - Nathalie FAGEL - [2d FW] | B1 | Q1 | 20 | 20 | | [+] | 5 |
| OCEA0088-1 | <i>Marine ecology</i> (english language) - Krishna DAS, Sylvie GOBERT - [5h Mon. WS, 4d FW] | B1 | TA | 10 | - | | [+] | 4 |
| OCEA0089-1 | <i>Introduction to marine ecosystems modelling</i> (english language) - Marilaure GRÉGOIRE | B1 | Q1 | 15 | 15 | - | | 3 |
| OCEA0014-1 | <i>Mathematical analysis and modelling methods applied to the environment</i> (english language) - Marilaure GRÉGOIRE | B1 | Q1 | 20 | 20 | - | | 4 |
| OCEA0049-1 | <i>Pelagic oceanography</i> - Sylvie GOBERT - [20h Mon. WS, 2d FW] | B1 | Q2 | 10 | - | | [+] | 4 |
| OCEA0011-2 | <i>Coastal oceanography</i> - Aida ALVERA AZCARATE, Alexander BARTH - [3d FW] | B1 | Q2 | 20 | 10 | | [+] | 5 |
| OCEA0019-1 | <i>Biological oceanology</i> - Sylvie GOBERT - [20h Mon. WS, 8d FW] | B1 | Q2 | 10 | - | | [+] | 6 |
| OCEA0090-1 | <i>Dynamics of marine ecosystems</i> - Marilaure GRÉGOIRE | B1 | Q2 | 20 | 20 | - | | 4 |
| DROI0725-1 | <i>Law of the sea and of sea environment</i> - Philippe VINCENT | B1 | Q2 | 20 | - | - | | 2 |
| GEOG0043-1 | <i>Developing marine resources</i> - Guénaël DEVILLET | B1 | Q2 | 20 | - | - | | 3 |
| GEOG2012-1 | <i>Coastal geomorphology, changing sea levels and the vulnerability of coastal regions</i> - Aurelia HUBERT - [3d FW] | B1 | Q2 | 20 | 10 | | [+] | 3 |
| OCEA0091-1 | <i>Methodological approach to oceanography practice</i> - Aida ALVERA AZCARATE, Sylvie GOBERT - [30h Mon. WS] | B1 | Q2 | - | - | | [+] | 4 |

Notice : A practical, two-week work placement (sampling on a boat, diving, dosages, plankton, benthos, data bases, etc.) is carried out at STARESO, the University's Station de Recherches Sous-Marines et Océanographiques (Calvi, France) at the end of the first block of the Masters in Oceanography, to carry out practical work associated with subjects covered during the year (physical, biological, geological, chemical oceanography, etc.).

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|------------|---|----|----|---|---|---|-----|----|
| DOCU0461-1 | <i>Documentary training and preparing a dissertation</i> - <i>Bibliographic research</i> - Michaël OVIDIO, Carole ROUGEOT - [20h Mon. WS] - <i>Preparation of a scientific and/or technical report</i> - Michaël OVIDIO, Carole ROUGEOT - [10h Mon. WS] | B2 | Q1 | - | - | | [+] | 3 |
| SMEM0003-1 | <i>Final thesis</i> - COLLÉGIALITÉ | B2 | TA | - | - | - | | 27 |

Focus choice (B2 : 30Cr)

Choose one focus from the following : (B2 : 30Cr)

Research Focus

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|------------|---|----|----|----|----|---|-----|---|
| SSTG0032-1 | <i>Internship</i> - Aida ALVERA AZCARATE, Gilles LEPOINT - [1mois Internship] | B2 | TA | - | - | | [+] | 6 |
| OCEA0020-1 | <i>Current issues in oceanography</i> - Aida ALVERA AZCARATE, COLLÉGIALITÉ, Sylvie GOBERT | B2 | Q1 | 15 | 15 | - | | 4 |

Study programmes 2023-2024

Faculty of Sciences

Master in oceanography (120 ECTS)

In agreement with the Jury, choose courses for a total of 20 credits, in at least two different fields, from : (B2 : 20Cr)

Biogeochemistry and climate change

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|------------|--|----|----|-----|-----|-----|---|
| OCEA0219-1 | <i>Biogeochemical Cycles in the Ocean</i> (english language) - Odile CRABECK, Bruno DELILLE - [2d FW] | B2 | Q1 | 20 | - | [+] | 3 |
| OCEA0220-1 | <i>Biogeochemical Cycles in the Polar Ocean and Sea Ice</i> (english language) - Odile CRABECK, Bruno DELILLE | B2 | Q1 | 20 | - | - | 3 |
| OCEA0025-1 | <i>Dynamics of nutrients in marine environment : chemical and biochemical aspects</i> - Cédric MORANA - [10h FW] | B2 | Q1 | 7,5 | 7,5 | [+] | 3 |
| GEOL0256-1 | <i>Marine sediment geochemistry</i> (english language) - Nathalie FAGEL | B2 | Q1 | 15 | 15 | - | 4 |
| OCEA0033-1 | (pas organisé en 2023-2024) <i>Global changes and sea environment</i> - N... | B2 | Q2 | 15 | 15 | - | 3 |

Marine ecology and biodiversity

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|------------|--|----|----|----|----|-----|---|
| BIOL0808-3 | <i>Functional morphology, Marine vertebrates</i> - Eric PARMENTIER | B2 | Q1 | 15 | 10 | - | 3 |
| OCEA0093-1 | <i>Molecular approaches to the diversity of marine microorganisms</i> (english language) - Annick WILMOTTE | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0094-1 | <i>Marine phanerogames ecology</i> (english language) - Sylvie GOBERT | B2 | Q1 | 15 | 10 | - | 3 |
| OCEA0063-1 | <i>Biology of Marine Mammals</i> (english language) - <i>Part I : Ecology and Ecotoxicology</i> - Krishna DAS - <i>Part II : pathology and necropsies</i> - Thierry JAUNIAUX | B2 | Q1 | 15 | - | - | 4 |
| OCEA0083-1 | <i>Physiology and biochemistry of the marine animals</i> (english language) - Philippe COMPÈRE | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0223-1 | <i>Biodiversity of tropical coastal regions: study and intercultural context</i> - Bruno FREDERICH, Gilles LEPOINT, Aliénor PIRLET, Richard RASOLOFONIRINA - [12d FW] | B2 | Q2 | 10 | - | [+] | 4 |
| OCEA0230-1 | <i>Marine invertebrate zoology</i> (english language) - Loïc MICHEL | B2 | Q1 | 20 | 10 | - | 3 |

Modeling and operational oceanography

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|------------|---|----|----|----|----|---|---|
| OCEA0096-1 | <i>Ecological and biogeochemical cycles modeling</i> - Arthur CAPET, Marilaure GRÉGOIRE, Guy MUNHOVEN | B2 | Q1 | 15 | 30 | - | 3 |
| OCEA0036-1 | <i>Structures and applications of marine hydrodynamic models</i> (english language) - Alexander BARTH | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0073-1 | <i>Numerical methods in geophysics, Part I</i> - JeanMarie BECKERS | B2 | Q2 | 15 | 30 | - | 3 |
| OCEA0097-1 | <i>Data assimilation and inverse methods</i> (english language) - Alexander BARTH | B2 | Q1 | 30 | - | - | 3 |
| OCEA0071-1 | <i>Geophysical fluid dynamics - part I</i> (english language) - JeanMarie BECKERS | B2 | Q2 | 30 | 15 | - | 5 |
| SPAT0024-2 | <i>Meteorology</i> (english language) - <i>Part 1</i> - Louis FRANÇOIS - <i>Part 2</i> - Louis FRANÇOIS | B2 | Q1 | 20 | 10 | - | 6 |

Exploitation of marine resources, anthropic pressures

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|------------|--|----|----|----|----|-----|---|
| ZOOL0218-4 | <i>Aquariology</i> - Marie BOURNONVILLE | B2 | Q1 | 20 | - | - | 3 |
| OCEA0227-1 | <i>Tools for analysis and assistance for integrated management</i> - JeanFrançois DELIÈGE, Sylvie GOBERT | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0226-1 | <i>Introduction to aquaculture</i> - Carole ROUGEOT | B2 | Q1 | 30 | - | - | 3 |
| OCEA0084-1 | <i>Marine ecotoxicology</i> (english language) - Krishna DAS - [15h] | B2 | Q1 | 15 | - | [+] | 4 |

Mon. WS]

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| OCEA0144-1 | <i>Biology of the coral reefs</i> - Stéphane ROBERTY | B2 | Q1 | 30 | - | - | 3 |
| OCEA0158-1 | <i>Phytoplankton, a tool for supporting the management of the marine environment</i> - Anne GOFFART - [10h Mon. WS] | B2 | Q1 | 10 | 8 | [+] | 4 |

Data acquisition and processing

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|------------|---|----|----|----|----|-----|---|
| OCEA0159-1 | <i>Advanced satellite oceanography</i> (english language) - Aida ALVERA AZCARATE | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0224-1 | <i>Statistical analysis of oceanographic data</i> - Arthur CAPET, Marilaure GRÉGOIRE, Patrick MEYER | B2 | Q1 | 15 | 15 | - | 3 |
| OCEA0027-1 | <i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL | B2 | Q1 | 15 | 15 | - | 4 |
| OCEA0085-1 | <i>Methods of investigation, observation and analysis of marine plankton</i> - Anne GOFFART - [12h Mon. WS] | B2 | Q1 | 10 | 5 | [+] | 4 |
| GEOL0021-7 | <i>Geophysical prospecting</i> - Frédéric NGUYEN - [5d FW, 20h Proj.] | B2 | Q2 | 26 | 20 | [+] | 5 |

[...] Exceptionally, and in agreement with the Jury, one or several courses may be chosen from the courses' programmes of other field of education of the Faculty of Sciences, other faculties or other universities (for example, in connection with the final dissertation, etc.).

Specialised focus in integrated management of aquatic resources and aquaculture (B2 : 30Cr)

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|------------|---|----|----|----|----|-----|---|
| ZOOL0234-1 | <i>Diversity of halieutic species and breeding: fish, shellfish and molluscs</i> - Bruno FREDERICH | B2 | Q1 | 15 | 10 | - | 3 |
| ZOOL0235-1 | <i>Physiology applied to aquaculture: a balance between productivity and respect for animal well-being</i> - Carole ROUGEOT | B2 | Q1 | 40 | 20 | - | 4 |
| BIOL0218-1 | <i>Ecological monitoring and managing fishery resources</i> - Michaël OVIDIO | B2 | Q1 | 10 | 15 | - | 3 |
| BIOL0219-1 | <i>Ecology and the production of algae: digital concepts and applications</i> - Damien SIRJACOBS | B2 | Q2 | 10 | 10 | - | 3 |
| ZOOL0236-1 | <i>Ecology and the production of zooplanktonic organisms</i> - Célia JOAQUIMJUSTO | B2 | Q2 | 10 | 10 | - | 3 |
| BIOL0220-1 | <i>Operation and integrated management of continental aquatic environments</i> - Michaël OVIDIO | B2 | Q2 | 10 | 10 | - | 3 |
| ZOOL0237-1 | <i>Aquaculture production system: adaptability, innovation and integration in a sustainable environment</i> - Carole ROUGEOT - [16h Vis.] | B2 | Q1 | 40 | 20 | [+] | 4 |
| GEOG0272-1 | <i>Economic issues and exploitation of the marine aquatic environment</i> - Guénaël DEVILLET | B2 | Q2 | 10 | 10 | - | 3 |

In agreement with the Jury, choose 2 courses for a total of 4 credits among: (B2 : 4Cr)

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|------------|--|----|----|----|----|-----|---|
| HULG2012-2 | <i>Fish and shellfish nutrition and feeding</i> - Patrick KESTEMONT | B2 | Q1 | 15 | - | - | 2 |
| VETE0206-1 | <i>Immunology, virology and vaccinology of aquatic species</i> - Alain VANDERPLASSCHEN | B2 | Q1 | 18 | 2 | - | 2 |
| VETE0207-1 | <i>Pathology, bacteriology and parasitology of aquatic species</i> - Thierry JAUNIAUX | B2 | Q2 | 15 | 10 | - | 2 |
| VETE2007-1 | <i>Management of the quality and safety of foodstuffs derived from aquaculture and fishing</i> - Antoine CLINQUART, Véronique DELCENSERIE, Nicolas KORSAK KOULAGENKO, MarieLouise SCIPPO - [5h Vis.] | B2 | Q2 | 15 | - | [+] | 2 |
| ZOOL0238-1 | <i>Integration of aquaponic aquaculture systems into urban and semi-urban agriculture</i> - Haissam JIJAKLI | B2 | Q1 | 12 | - | - | 2 |

Additional ECTS (max 15-60) Master in oceanography (120 ECTS)

Optional courses (B0 : 60Cr)

The refresher programme, for a maximum of 60 credits, will be established by the jury of the Masters in Oceanography, depending on the student's prior training: this programme will enable the student to acquire the basic knowledge required in relevant fields (statistics, IT, biology, chemistry, physics, etc.). (B0 : 60Cr)

[...] Between 15 and 60 ECTS of courses