

#### Cycle view of the study programme

B1 Or Th Pr Au Cr

#### Cours obligatoires de la finalité (B2 : 10Cr)

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

#### Cours au choix de la finalité (B2 : 20Cr)

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

OCEA0219-1	<i>Biogeochemical Cycles in the Ocean</i> (english language)	B2	Q1	20	-	-	3
OCEA0220-1	<i>Biogeochemical Cycles in the Polar Ocean and Sea Ice</i> (english language)	B2	Q1	20	-	-	3
GEOL0256-1	<i>Marine sediment geochemistry</i> (english language) - Nathalie FAGEL	B2	Q1	15	15	-	4

##### Marine ecology and biodiversity

BIOL0808-3	<i>Functional morphology, Marine vertebrates</i>	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)	B2	Q1	15	10	-	3
OCEA0063-1	<i>Biology of Marine Mammals</i> (english language) - Part I : Ecology and Ecotoxicology - Part II : pathology and necropsies	B2	Q1	15	-	-	4
				15	10	-	
OCEA0083-1	<i>Physiology and biochemistry of the marine animals</i> (english language)	B2	Q1	15	15	-	3
OCEA0223-1	<i>Biodiversity of tropical coastal regions: study and intercultural context</i> - Bruno FREDERICH, Gilles LEPOINT - [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

OCEA0096-1	<i>Ecological and biogeochemical cycles modeling</i> - 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 1</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 1</i> (english language) - JeanMarie BECKERS	B2	Q2	30	15	-	5
SPAT0024-2	<i>Meteorology</i> (english language) - Part 1 - Louis FRANÇOIS - Part 2 - Louis FRANÇOIS	B2	Q1	20	10	-	6
				20	10	-	

##### Exploitation of marine resources, anthropic pressures

ZOOL0218-4	(pas organisé en 2024-2025) <i>Aquariology</i>	B2	Q1	20	-	-	3
OCEA0227-1	<i>Tools for analysis and assistance for integrated management</i> - [5h Mon. WS]	B2	Q1	15	15	[+]	5
OCEA0226-1	<i>Introduction to aquaculture</i>	B2	Q1	30	-	-	3
OCEA0084-1	<i>Marine ecotoxicology</i> (english language) - [15h Mon. WS]	B2	Q1	15	-	[+]	4
OCEA0144-1	<i>Biology of the coral reefs</i>	B2	Q1	30	-	-	3

OCEA0158-1 *Phytoplankton, a tool for supporting the management of the marine environment* - [18h Mon. WS] B2 Q1 10 - [+] 4

#### Data acquisition and processing

OCEA0159-1 *Advanced satellite oceanography* (english language) - Aida ALVERA AZCARATE B2 Q1 15 15 - 3

OCEA0224-1 *Statistical analysis of oceanographic data* - Marilaure GRÉGOIRE, Patrick MEYER B2 Q1 15 15 - 3

OCEA0027-1 *Applications of stable isotopes in marine sciences* B2 Q1 15 15 - 4

OCEA0085-1 *Methods of investigation, observation and analysis of marine plankton* - [17h Mon. WS] B2 Q1 10 - [+] 4

GEOL0021-7 *Geophysical prospecting* - Frédéric NGUYEN - [5d FW, 20h Proj.] B2 Q2 26 20 [+] 5

PHYS0999-1 *Digital creation in sciences* - Roland BILLEN, Valentin FISCHER, Pierre MATHONET, JeanChristophe MONBALIU, Eric PARMENTIER, Nicolas VANDEWALLE - [30h Proj.] B2 TA 10 - [+] 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.).

#### Cours obligatoires du tronc commun (B1 : 60Cr, B2 : 30Cr)

OCEA0075-1 *Physical oceanography and marine meteorology* (english language) - *Theory and practice* - JeanMarie BECKERS B1 Q1 30 15 - 6  
- *Fieldwork trip* - JeanMarie BECKERS - [3d FW] - - [+]

OCEA0086-1 *Chemical oceanography* (english language) - Alberto BORGES - [2d FW] B1 TA 20 5 [+] 4

OCEA0087-1 *Satellite oceanography* (english language) - Aida ALVERA AZCARATE B1 Q1 15 15 - 3

GEOL1039-1 *Geological oceanography* B1 Q1 20 20 [+] 5  
- *From theory to field work* - Nathalie FAGEL - [1d FW] - - [+]  
- *Additional field work* - Nathalie FAGEL - [2d FW] - -

OCEA0088-1 *Marine ecology* (english language) - [5h Mon. WS, 4d FW] B1 TA 10 - [+] 4

OCEA0089-1 *Introduction to marine ecosystems modelling* (english language) - Marilaure GRÉGOIRE B1 Q1 15 15 - 3

OCEA0014-1 *Mathematical analysis and modelling methods applied to the environment* (english language) - Marilaure GRÉGOIRE B1 Q1 20 20 - 4

OCEA0049-1 *Pelagic oceanography* - [20h Mon. WS, 2d FW] B1 Q2 10 - [+] 4

OCEA0011-2 *Coastal oceanography* - Aida ALVERA AZCARATE, Alexander BARTH - [3d FW] B1 Q2 20 10 [+] 5

OCEA0019-1 *Biological oceanology* - [20h Mon. WS, 8d FW] B1 Q2 10 - [+] 6

OCEA0090-1 *Dynamics of marine ecosystems* - Marilaure GRÉGOIRE B1 Q2 20 20 - 4

DROI0725-1 *Law of the sea and of sea environment* - Philippe VINCENT B1 Q2 20 - - 2

GEOG0043-1 *Developing marine resources* - Guénaël DEVILLET B1 Q2 20 - - 3

GEOG2012-1 *Coastal geomorphology, changing sea levels and the vulnerability of coastal regions* - Aurelia HUBERT - [3d FW] B1 Q2 20 10 [+] 3

OCEA0091-1 *Methodological approach to oceanography practice* - [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.).

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

## 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