

#### Cycle view of the study programme

		Bl	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 60Cr, B2 : 30Cr)</b>							
OCEA0075-1	<i>Physical oceanography and marine meteorology</i> - Theory and practice - JeanMarie BECKERS - Field work trips - JeanMarie BECKERS - [3d FW]	B1	Q1				<b>6</b>
			30	15	-		
			-	-	[+]		
OCEA0086-1	<i>Chemical oceanography (english language)</i> - Alberto BORGES - [2d FW]	B1	TA	20	5	[+]	<b>4</b>
OCEA0087-1	<i>Satellite oceanography (english language)</i> - Aida ALVERA AZCARATE	B1	Q1	15	15	-	<b>3</b>
GEOL1039-1	<i>Geological oceanography</i> - From theory to field work - Nathalie FAGEL - [1d FW] - Additional field work - Nathalie FAGEL - [2d FW]	B1	Q1				<b>5</b>
			20	20	[+]		
			-	-	[+]		
OCEA0088-1	<i>Marine ecology (english language)</i> - Krishna DAS, Sylvie GOBERT - [5h Mon. WS, 4d FW]	B1	Q1	10	-	[+]	<b>4</b>
OCEA0089-1	<i>Introduction to marine ecosystems modelling (english language)</i> - Marilaure GRÉGOIRE	B1	Q1	15	15	-	<b>3</b>
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment (english language)</i> - Marilaure GRÉGOIRE	B1	Q1	20	20	-	<b>4</b>
OCEA0049-1	<i>Pelagic oceanography</i> - Sylvie GOBERT - [20h Mon. WS, 2d FW]	B1	Q2	10	-	[+]	<b>4</b>
OCEA0011-2	<i>Coastal oceanography</i> - Aida ALVERA AZCARATE - [3d FW]	B1	Q2	20	10	[+]	<b>5</b>
OCEA0019-1	<i>Biological oceanology</i> - Sylvie GOBERT - [20h Mon. WS, 8d FW]	B1	Q2	10	-	[+]	<b>6</b>
OCEA0090-1	<i>Dynamics of marine ecosystems</i> - Marilaure GRÉGOIRE	B1	Q2	20	20	-	<b>4</b>
DROI0725-1	<i>Law of the sea and of sea environment</i> - Philippe VINCENT	B1	Q2	20	-	-	<b>2</b>
GEOG0043-1	<i>Developing marine resources</i> - Guénaél DEVILLET	B1	Q2	20	-	-	<b>3</b>
GEOG2012-1	<i>Coastal geomorphology, changing sea levels and the vulnerability of coastal regions</i> - Aurelia HUBERT - [3d FW]	B1	Q2	20	10	[+]	<b>3</b>
OCEA0091-1	<i>Methodological approach to oceanography practice</i> - Aida ALVERA AZCARATE, Sylvie GOBERT - [30h Mon. WS]	B1	Q2	-	-	[+]	<b>4</b>
<p><i>Notice</i> : 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.).</p>							
DOCU0459-1	<i>Documentation training and preparation to the final thesis</i> - Bibliographic research - Ninfa GRECO - [20h Mon. WS] - Application to oceanography - Aida ALVERA AZCARATE, Serge SCORY - [15h Mon. WS]	B2	Q1				<b>5</b>
			-	-	[+]		
			-	-	[+]		
SMEM0003-1	<i>Final thesis</i> - COLLÉGIALITÉ	B2	TA	-	-	-	<b>25</b>

#### Focus courses (B2 : 30Cr)

##### Single focus (B2 : 30Cr)

##### Research Focus

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

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) - Bruno DELILLE, Anne MOUCHET - [2d FW]	B2	Q1	20	-	[+]	3
OCEA0220-1	<i>Biogeochemical Cycles in the Polar Ocean and Sea Ice</i> (english language) - Bruno DELILLE, Anne MOUCHET	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	<i>Global changes and sea environment</i> - Anne MOUCHET	B2	Q2	15	15	-	3
<b>Marine ecology and biodiversity</b>							
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
OCEA0043-2	<i>Ecoethology of the marine animals</i> - Christian MICHEL	B2	Q1	30	-	-	3
OCEA0063-1	<i>Biology of Marine Mammals</i> (english language) - Part I : <i>Ecology and Ecotoxicology</i> - Krishna DAS - Part II : <i>pathology and necropsies</i> - Thierry JAUNIAUX	B2	Q1	15	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</i> - Bruno FREDERICH, Gilles LEPOINT, Richard RASOLOFONIRINA, Gwendoline ROMMELAERE - [15d FW]	B2	Q2	-	-	[+]	4
<b>Modeling and operational oceanography</b>							
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 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> - Part 1 - Louis FRANÇOIS - Part 2 - Louis FRANÇOIS	B2	Q1	20	10	-	6
<b>Exploitation of marine resources, anthropic pressures</b>							
ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	B2	Q1	20	-	-	3
OCEA0227-1	<i>Tools for analysis and assistance for integrated management</i> - JeanFrançois DELIÈGE, Sylvie GOBERT	B2	Q1	30	-	-	3
OCEA0226-1	<i>Introduction to aquaculture</i> - Carole ROUGEOT	B2	Q1	30	-	-	3
OCEA0084-1	<i>Marine ecotoxicology</i> (english language) - Krishna DAS	B2	Q1	15	15	-	4
OCEA0144-1	<i>Ecology of the coral reefs</i> (english language) - N..., 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

Study programmes 2021-2022  
Faculty of Sciences  
Master in oceanography (120 ECTS)

**Data acquisition and processing**

OCEA0159-1	<i>Advanced satellite oceanography</i> (english language) - Aida ALVERA AZCARATE	B2	Q1	15	15	-	<b>3</b>
OCEA0224-1	<i>Statistical analysis of oceanographic data</i> - Arthur CAPET, Marilaure GRÉGOIRE, Patrick MEYER	B2	Q1	15	15	-	<b>3</b>
OCEA0027-1	<i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL	B2	Q1	15	15	-	<b>4</b>
OCEA0160-1	<i>Techniques of sampling in marine ecology</i> (english language) - Sylvie GOBERT	B2	Q1	15	-	-	<b>3</b>
OCEA0085-1	<i>Methods of investigation, observation and analysis of marine plankton</i> - Anne GOFFART - [12h Mon. WS]	B2	Q1	10	5	[+]	<b>4</b>
GEOL0021-7	<i>Geophysical prospecting</i> - Frédéric NGUYEN - [5d FW, 20h Proj.]	B2	Q2	26	20	[+]	<b>5</b>

[...] Exceptionally, and with the agreement of the Jury, one or several courses can be chosen in another programme (for instance, in relation with the student's final dissertation,...)

**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