

First Year

Compulsory courses

First semester

OCEA0010-1	<i>Physical Oceanography</i> - Jean-Marie BECKERS - [3d FW]	20	10	[+]	5
OCEA0013-1	<i>Chemical oceanography</i> - Alberto BORGES - [2d FW]	20	5	[+]	4
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment</i> - Eric DELHEZ	20	20	-	4
GCIV2061-1	<i>Undercurrents and pressure on marine structures</i> - Jean MARCHAL	15	5	-	2
GEOL0255-2	<i>Geological oceanography</i> - Nathalie FAGEL - [1d FW]	20	20	[+]	4
ENVT0726-1	<i>Marine Ecology</i> - Sylvie GOBERT, Mathieu POULICEK - [4d FW]	15	-	[+]	4
OCEA0017-1	<i>Satellite oceanography</i> - Yves CORNET	15	15	-	3

Second semester

OCEA0049-1	<i>Pelagian oceanography</i> - Jean-Henri HECQ - [2d FW]	15	15	[+]	3
OCEA0011-2	<i>Coastal oceanography</i> - Salim DJENIDI - [3d FW]	20	10	[+]	5
OCEA0012-1	<i>Marine meteorology</i> - Jean-Marie BECKERS	15	5	-	2
OCEA0015-1	<i>Principles of interdisciplinary study of sea systems</i> - Marilaure GRÉGOIRE	20	20	-	3
DROI0725-1	<i>Law of the sea and of sea environment</i> - Philippe VINCENT	20	-	-	2
OCEA0018-1	<i>Introduction to modelling ecosystems</i> - Marilaure GRÉGOIRE	15	15	-	3
GEOG2012-1	<i>Coastal geomorphology</i> - Aurelia HUBERT - [2d FW]	20	10	[+]	3
GEOG0620-1	<i>Economic geography of the sea</i> - Bernadette MERENNE#SCHOUMAKER	20	-	-	2
SSTA0001-1	<i>Integrated placement : preparation, fieldwork guidance, assistant writing up a report --</i> Aïda ALVERA AZCARATE, Sylvie GOBERT - [30h Mon. WS]	-	-	[+]	3

All year round

OCEA0019-1	<i>Biological and biochemical oceanology</i> - Jean-Marie BOUQUEGNEAU, Gilles LEPOINT - [8d FW]	30	-	[+]	8
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Second Year

Compulsory courses

OCEA0020-1	<i>Current issues in oceanography</i> - Salim DJENIDI	15	15	-	2
	<i>Notice</i> : this course is given during the 2nd semester				
DOCU0450-1	<i>Documentation training applied to oceanography (bibliography and database)</i> - Aïda ALVERA AZCARATE, Ninfa GRECO	20	-	-	3
	<i>Notice</i> : this course is given during the 2nd semester				
SMEM0003-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	25

Professional focus (organized during the 1st semester)

Optional courses

Choose one option from the following :

Option Oceanography

Choose courses totalling 30 ECTS out of the following :

SSTG0032-1	<i>Work placement</i> - COLLÉGIALITÉ - [1w Internship]	-	-	[+]	4
BOTA0401-1	<i>Molecular approaches to the diversity of marine microorganisms</i> - Annick WILMOTTE	15	15	-	2
ZOOL0218-1	<i>Aquariology</i> - Christian MICHEL	15	15	-	3
BACT0001-1	<i>Marine bacteriology</i> - Mathieu POULICEK	15	30	-	3
OCEA0021-1	<i>Bacteria growth quantification in sea systems : theory and methods</i> - Branko VELIMIROV	20	-	-	2
OCEA0022-1	<i>Biodegradation of organic molecules in a sea environment</i> -	20	-	-	2

ZOOL0219-1	OULICEK <i>Biology of benthos and necton animals, part I : vertebrates -</i> Pierre VANDEWALLE - [2d FW]	15	15	[+]	3
ZOOL0219-2	<i>Biology of benthos and necton animals, part II : invertebrates -</i> Patrick DAUBY, Mathieu POULICEK - [2d FW]	15	15	[+]	3
BOTA0402-1	<i>Marine plant biology -</i> Vincent DEMOULIN - [3d FW]	15	15	[+]	4
OCEA0023-1	<i>Ecological modelling -</i> Marilaure GRÉGOIRE, Jean-Henri HECQ	15	30	-	3
ZOOL0220-1	<i>Planctonology -</i> Jean-Henri HECQ	15	30	-	3
OCEA0025-1	<i>Dynamics of nutrients in marine environment, part I : chemical and biochemical aspects -</i> Marc ELSKENS - [10h FW]	7,5	7,5	[+]	2
OCEA0025-2	<i>Dynamics of nutrients in marine environment, part II : ecological processes -</i> Anne GOFFART - [10h FW]	7,5	7,5	[+]	2
BIOC0701-2	<i>Biogeochemistry 1 -</i> Bruno DELILLE, Anne MOUCHET	30	-	-	3
BIOC0702-1	<i>Biogeochemistry 2 -</i> Bruno DELILLE, Anne MOUCHET	20	-	-	2
OCEA0052-1	<i>Marine cryosphere -</i> Bruno DELILLE	10	-	-	2
OCEA0043-1	<i>Ecoethology of the marine animals -</i> Christian MICHEL - [3d FW]	15	-	[+]	3
OCEA0026-1	<i>Marine ecotoxicology -</i> Krishna DAS	15	15	-	3
OCEA0027-1	<i>Applications of stable isotopes in marine sciences -</i> Gilles LEPOINT	15	5	-	3
OCEA0028-1	<i>Impact study in a sea environment : theory and practice -</i> Pierre LEJEUNE	10	20	-	3
ZOOL0222-1	<i>Physiology and biochemistry of the marine animals -</i> Philippe COMPÈRE	15	15	-	3
OCEA0029-1	<i>Production techniques of marine fishes, molluscs and crustaceans -</i> Bruno FREDERICH	10	10	-	3
OCEA0030-1	<i>Sea Climatology and meteorology -</i> Michel ERPICUM	30	-	-	3
ESHY0070-1	<i>Dynamics of lower atmospherical layers and air-sea interactions -</i> Louis FRANÇOIS	30	15	-	4
MECA0053-3	<i>Geophysical fluid dynamics -</i> Jean-Marie BECKERS	30	30	-	6
MECA0055-1	<i>Numerical methods applied to the environment -</i> Jean-Marie BECKERS	30	30	-	6
GEOL0256-1	<i>Geochemistry of sediments and interstitial water -</i> Nathalie FAGEL	15	15	-	3
GEOL0225-3	<i>Analytical Geochemistry -</i> Nathalie FAGEL	10	10	-	3
OCEA0042-1	<i>Introduction to marine Micropaleontology and palynology (marine microfossils) -</i> Emmanuelle JAVAUX	20	-	-	2
GEOL0257-1	<i>Marine sedimentology -</i> Frédéric BOULVAIN - [3d FW]	20	-	[+]	2
GCIV0612-1	<i>Behavior of Marine Structures -</i> Jean MARCHAL	30	30	-	6
GCIV2062-1	<i>Free surface flow -</i> Michel PIROTON	15	10	-	2
OCEA0041-2	<i>Biology of marine mammals</i> - Part I : Ecology and Ecotoxicology - Krishna DAS	15	-	-	4
	- Part II : pathology and necropsies - Freddy COIGNOUL, Thierry JAUNIAUX	15	10	-	
OCEA0033-1	<i>Global changes and sea environment -</i> Anne MOUCHET	15	15	-	2
OCEA0034-1	<i>Study of the sea environment in a global perspective of sustainable development -</i> Jacques NIHOUL	10	20	-	2
ENV0727-1	<i>Hygiene, health and safety on the work place -</i> Sylvie GOBERT	15	10	-	3
ENV0728-1	<i>Techniques of sampling in marine ecology -</i> Sylvie GOBERT	15	10	-	3
OCEA0035-1	<i>Data acquisition and analysis, complements -</i> Aïda ALVERA AZCARATE	15	10	-	2
OCEA0044-3	<i>Ecology of the coral reefs -</i> Mathieu POULICEK	30	-	-	3

Exceptionally, and with the agreement of the council of studies in Oceanology, one or several courses can be chosen in another program(for instance, in relation with the student's final dissertation,...)

Option Modelling Marine Environments

OCEA0023-1	<i>Ecological modelling -</i> Marilaure GRÉGOIRE, Jean-Henri HECQ	15	30	-	3
OCEA0036-1	<i>Structures and applications of marine hydrodynamic models -</i> Alexander BARTH	15	15	-	3
BIOC0701-1	<i>Biogeochemistry 1 -</i> Bruno DELILLE, Anne MOUCHET	20	-	-	3
MECA0055-4	<i>Numerical methods applied to the environment (Part I) -</i> Jean-Marie BECKERS	15	15	-	3

Choose courses totalling 18 ECTS from the following :

SSTG0032-1	<i>Work placement -</i> COLLÉGIALITÉ - [1w Internship]	-	-	[+]	4
MECA0053-3	<i>Geophysical fluid dynamics -</i> Jean-Marie BECKERS	30	30	-	6
OCEA0037-1	<i>Oceanic and atmospheric waves -</i> Jean-Marie BECKERS	30	-	-	3
ESHY0070-1	<i>Dynamics of lower atmospherical layers and air-sea interactions -</i> Louis FRANÇOIS	30	15	-	4
OCEA0030-1	<i>Sea Climatology and meteorology -</i> Michel ERPICUM	30	-	-	3
BIOC0702-1	<i>Biogeochemistry 2 -</i> Bruno DELILLE, Anne MOUCHET	20	-	-	2

ZOOL0220-1	<i>Planctonology</i> - Jean-Henri HECQ	15	30	-	3
OCEA0026-1	<i>Marine ecotoxicology</i> - Krishna DAS	15	15	-	3
OCEA0028-1	<i>Impact study in a sea environment : theory and practice</i> - Pierre LEJEUNE	10	20	-	3
OCEA0040-1	<i>Coastal engineering</i> - Jean MARCHAL	30	30	-	6
GCIV2062-1	<i>Free surface flow</i> - Michel PIROTON	15	10	-	2
OCEA0034-1	<i>Study of the sea environment in a global perspective of sustainable development</i> - Jacques NIHOUL	10	20	-	2
OCEA0035-1	<i>Data acquisition and analysis, complements</i> - Aïda ALVERA AZCARATE	15	10	-	2
OCEA0033-1	<i>Global changes and sea environment</i> - Anne MOUCHET	15	15	-	2
OCEA0052-1	<i>Marine cryosphere</i> - Bruno DELILLE	10	-	-	2
MECA0055-5	<i>Numerical methods applied to the environment (Part II)</i> - Jean-Marie BECKERS	15	15	-	3

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