

First Year

Compulsory courses

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
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
OCEA0015-1	<i>Principles of interdisciplinary study of sea systems</i> - Marilaure GRÉGOIRE	20	20	-	3
GCIV2061-1	<i>Undercurrents and pressure on marine structures</i> - Jean MARCHAL	15	5	-	2
DROI0725-1	<i>law of the sea and of sea environment</i> - Philippe VINCENT	20	-	-	2
GEOL0255-2	<i>Geological oceanography</i> - Nathalie FAGEL - [1d FW]	20	20	[+]	4
OCEA0018-1	<i>Introduction to modelling ecosystems</i> - Marilaure GRÉGOIRE	15	15	-	3
ENVT0726-1	<i>Marine Ecology</i> - Sylvie GOBERT, Mathieu POULICEK - [4d FW]	15	-	[+]	4
OCEA0019-1	<i>Biological and biochemical oceanology</i> - Jean-Marie BOUQUEGNEAU, Gilles LEPOINT - [8d FW]	30	-	[+]	8
SSTA0001-1	<i>Integrated placement: preparation, fieldwork guidance, assistant writing up a report</i> - Aida ALVERA, Sylvie GOBERT - [30h Mon. WS]	-	-	[+]	3
OCEA0017-1	<i>Satellite oceanography</i> - Yves CORNET	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

Second Year

Compulsory courses

OCEA0020-1	<i>Current issues in oceanography</i> - Salim DJENIDI	15	15	-	2
SMEM0003-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	28

Research Focus

Optional courses

Choose one option from the following :

Option Oceanography

Choose courses totalling 30 ECTS out of the following :

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 (Even years)	15	30	-	3
OCEA0021-1	<i>Bacteria growth quantification in sea systems: theory and methods</i> - Branko VELIMIROV (Odd years)	20	-	-	2
OCEA0022-1	<i>Biodegradation of organic molecules in a sea environment</i> - Mathieu POULICEK	20	-	-	2
ZOOL0219-1	<i>Biology of benthos and necton animals, partim I: vertebrates</i> - Pierre VANDEWALLE - [2d FW]	15	15	[+]	3
ZOOL0219-2	<i>Biology of benthos and necton animals, partim II: invertebrates</i> - Patrick DAUBY, Mathieu POULICEK - [2d FW]	15	15	[+]	3
BOTA0402-1	<i>Marine plant biology</i> - Vincent DEMOULIN - Suppl : Anne GOFFART - [3d FW]	15	15	[+]	4
OCEA0023-1	<i>Ecological modelling</i> - Marilaure GRÉGOIRE, Jean-Henri HECQ	15	30	-	3
ZOOL0220-1	<i>Planktonology</i> - Jean-Henri HECQ	15	30	-	3
OCEA0025-1	<i>Dynamics of nutrients in marine environment, partim I: chemical and biochemical aspects</i> - Marc ELSKENS - [10h FW]	7,5	7,5	[+]	2

OCEA0025-2	<i>Dynamics of nutrients in marine environment, partim 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
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	-	2
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> - Gilles LEPOINT	10	10	-	2
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 waters.</i> - Nathalie FAGEL	15	15	-	3
GEOL0225-3	<i>Analytical Geochemistry</i> - Nathalie FAGEL	10	10	-	2
OCEA0042-1	<i>Introduction to marine Micropaleontology and palynology Holder</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 PIROTTON	15	10	-	2
OCEA0041-1	<i>Biology of marine mammals</i> - <i>Ecotoxicology</i> - Krishna DAS	15	-	-	4
	- <i>pathology and necropsies</i> - 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
ENVT0727-1	<i>Hygiene, health and safety on the work place</i> - Sylvie GOBERT	15	10	-	2
ENVT0728-1	<i>Techniques of sampling in marine ecology</i> - Sylvie GOBERT	15	10	-	2
OCEA0035-1	<i>Data aquisition and analysis, complements</i> - Aida ALVERA	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	-	-	2
MECA0055-4	<i>Numerical methods applied to the environment (Partim I)</i> - Jean-Marie BECKERS	15	15	-	3

Choose courses totalling 19 ECTS from the following :

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 PIROTTON	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 aquisition and analysis, complements</i> - Aida ALVERA	15	10	-	2
OCEA0033-1	<i>Global changes and sea environment</i> - Anne MOUCHET	15	15	-	2
MECA0055-5	<i>Numerical methods applied to the environment (Partim II)</i> - Jean-Marie BECKERS	15	15	-	3

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Study programmes 2009-2010

Faculty of Sciences

Master in oceanography, Research focus

another program(for instance, in relation with the student's final dissertation,...)