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First Year

Compulsory courses

First semester

OCEA0010-1	<i>Physical Oceanography</i> - JeanMarie 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
GCIV2040-2	<i>Swell and actions on marine structures</i> - Sébastien ERPICUM	15	5	-	2
GEOL0255-3	<i>Geological oceanography</i> - Nathalie FAGEL - [3d FW]	20	20	[+]	4
ENVT0726-1	<i>Marine Ecolgy</i> - Sylvie GOBERT, Mathieu POULICEK - [4d FW]	15	-	[+]	4
OCEA0003-1	<i>Introduction to satellite oceanography</i> - Yves CORNET	15	15	-	3

Second semester

OCEA0049-1	<i>Pelagian oceanography</i> - Sylvie GOBERT - [2d FW]	15	15	[+]	3
OCEA0011-2	<i>Coastal oceanography</i> - Salim DJENIDI - [3d FW]	20	10	[+]	5
OCEA0012-1	<i>Marine meteorology</i> - JeanMarie 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 MERENNESCHOUMAKER	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> - JeanMarie BOUQUEGNEAU, Sylvie GOBERT - [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 taught during the first semester				
DOCU0450-2	<i>Documentation training applied to oceanography (bibliography and database)</i> - Aïda ALVERA AZCARATE, Ninfa GRECO - Suppl : Caroline COLLETTE - [20h Mon. WS]	-	-	[+]	3
	<i>Notice</i> : this course is taught during the first 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>Practical professional internship in oceanography</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

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, part I : vertebrates</i> - Eric PARMENTIER - [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> - Anne GOFFART - [3d FW]	15	15	[+]	4
OCEA0023-1	<i>Complement of ecological modelling</i> - Marilaure GRÉGOIRE	15	30	-	3
ZOOL0220-1	<i>Planctonology</i> - Anne GOFFART	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
BIOC0701-3	<i>Biogeochemistry 1</i> - Bruno DELILLE, Anne MOUCHET - [2d FW]	20	-	[+]	3
BIOC0702-1	<i>Biogeochemistry 2</i> - Bruno DELILLE, Anne MOUCHET	20	-	-	2
OCEA0052-2	<i>Marine cryosphere</i> - Bruno DELILLE	20	-	-	2
OCEA0043-2	<i>Ecoethology of the marine animals</i> - Christian MICHEL	30	-	-	3
OCEA0026-1	<i>Marine ecotoxicology</i> - Krishna DAS	15	15	-	4
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> - JeanMarie BECKERS	30	30	-	6
MECA0055-1	<i>Numerical methods applied to the environment</i> - JeanMarie BECKERS	30	30	-	6
GEOLO256-1	<i>Geochemistry of sediments and interstitial water</i> - Nathalie FAGEL	15	15	-	3
GEOLO225-3	<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
GEOLO257-1	<i>Marine sedimentology</i> - Frédéric BOULVAIN - [3d FW]	20	-	[+]	2
OCEA0041-2	<i>Biology of marine mammals</i> - <i>Part I : Ecology and Ecotoxicology</i> - Krishna DAS - <i>Part II : pathology and autopsies</i> - Freddy COIGNOUL, Thierry JAUNIAUX	15	-	-	4
OCEA0033-1	<i>Global changes and sea environment</i> - Anne MOUCHET	15	15	-	2
ENVT0727-1	<i>Marine phanerogames ecology</i> - Sylvie GOBERT	15	10	-	3
ENVT0728-1	<i>Techniques of sampling in marine ecology</i> - Sylvie GOBERT	15	10	-	3
OCEA0035-1	<i>Data aquisition and analysis, complements</i> - Aïda ALVERA AZCARATE	15	10	-	2
OCEA0044-3	<i>Ecology of the coral reefs</i> - Mathieu POULICEK	30	-	-	3
OCEA0004-1	<i>Advanced satellite oceanography</i> - Yves CORNET	15	15	-	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>Complement of ecological modelling</i> - Marilaure GRÉGOIRE	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> - JeanMarie BECKERS	15	15	-	3

Choose courses totalling 18 ECTS from the following :

SSTG0032-1	<i>Practical professional internship in oceanography</i> - COLLÉGIALITÉ - [1w Internship]	-	-	[+]	4
MECA0053-3	<i>Geophysical fluid dynamics</i> - JeanMarie BECKERS	30	30	-	6
OCEA0037-1	<i>Oceanic and atmospheric waves</i> - JeanMarie 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> - Anne GOFFART	15	30	-	3

OCEA0026-1	<i>Marine ecotoxicology</i> - Krishna DAS	15	15	-	4
OCEA0028-1	<i>Impact study in a sea environment : theory and practice</i> - Pierre LEJEUNE	10	20	-	3
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
OCEA0052-2	<i>Marine cryosphere</i> - Bruno DELILLE	20	-	-	2
MECA0055-5	<i>Numerical methods applied to the environment (Part II)</i> - JeanMarie BECKERS	15	15	-	3
OCEA0004-1	<i>Advanced satellite oceanography</i> - Yves CORNET	15	15	-	3

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