

Block view of the study programme

Or Th Pr Au Cr

Block 1
Compulsory Courses

 SHUL0069-1 *Master thesis* - COLLÉGIALITÉ TA - - - **30**
Focus courses
Single Focus
Research Focus

OCEA0057-7	<i>Marine Ecology</i> (english language)	Q1				6
	- <i>Marine ecology</i> - Sylvie GOBERT, Mathieu POULICEK - [6d FW]		15	-	[+]	
	- <i>Introduction to marine ecosystems modelling</i> - Marilaure GRÉGOIRE		15	15	-	

Courses totaling 24 credits have to be chosen among :

Framework : global ocean environment

OCEA0055-5	<i>Biogeochemical Cycles in the Ocean</i> (english language)	Q1				6
	- <i>Biogeochemistry 1</i> - Bruno DELILLE, Anne MOUCHET		20	-	-	
	- <i>Biogeochemistry 2</i> - Bruno DELILLE, Anne MOUCHET		20	-	-	

OCEA0056-1	<i>Marine Plant Biology and Ecology</i> (english language)	Q1				6
	- <i>Marine phanerogames ecology</i> - Sylvie GOBERT		15	10	-	
	- <i>Techniques of sampling in marine ecology</i> - Sylvie GOBERT		15	10	-	

OCEA0082-1	<i>Carbon, nutrient, greenhouse gases dynamics in marine ecosystems and geological oceanography</i> (english language)	Q1				6
	- <i>Carbon, nutrient, greenhouse gases dynamics in marine ecosystems</i>		20	5	-	
	- Alberto BORGES					
	- <i>Geological oceanography</i> - Nathalie FAGEL - [1d FW]		20	20	[+]	

OCEA0059-1	<i>Remote Sensing of the Oceans</i> (english language)	Q1				6
	- <i>Introduction to satellite oceanography</i> - Yves CORNET		15	15	-	
	- <i>Advanced satellite oceanography</i> - Yves CORNET		15	15	-	

Scientific challenges & opportunities : marine environment protection & resources protection

OCEA0060-1	<i>Advanced Marine Zoology</i> (english language)	Q1				6
	- <i>Biology of benthos and necton animals : invertebrates</i> - Patrick DAUBY, Mathieu POULICEK		15	15	-	
	- <i>Ecoethology of the marine animals</i> - Christian MICHEL		30	-	-	
	- <i>Ecology of the coral reefs</i> - Mathieu POULICEK		30	-	-	

OCEA0080-1	<i>Biochemistry, Physiology and Aquariology</i> (english language)	Q1				6
	- <i>Physiology and biochemistry of the marine animals</i> - Philippe COMPÈRE		15	15	-	
	- <i>Aquariology</i> - Christian MICHEL		15	-	-	

OCEA0062-1	<i>Ecotoxicology and Biodegradation of Marine Pollutants</i> (english language)	Q1				6
	- <i>Biodegradation of organic molecules in a sea environment</i> - Mathieu POULICEK		20	-	-	
	- <i>Marine ecotoxicology</i> - Krishna DAS		15	15	-	

OCEA0063-1	<i>Biology of Marine Mammals</i> (english language)	Q1				6
	- <i>Part I : Ecology and Ecotoxicology</i> - Krishna DAS		15	-	-	
	- <i>Part II : pathology and necropsies</i> - Thierry JAUNIAUX		15	10	-	

OCEA0064-1	<i>Functional and Molecular Marine Microbiology</i> (english language)	Q1				6
	- <i>Marine bacteriology</i> - Mathieu POULICEK		15	30	-	
	- <i>Molecular approaches to the diversity of marine microorganisms</i> - Annick WILMOTTE		15	15	-	

Data analysis : interpretation of environmental data

OCEA0081-1 *Numerical Methods in Geophysics - Part 2* (english language) - Q1 15 30 - 6
JeanMarie BECKERS