

**Vue cycle du programme des cours**

		Bl	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 30Cr)</b>							
STFE9002-1	Master thesis - COLLÉGIALITÉ	B1	TA	-	-	-	30
<b>Focus courses (B1 : 30Cr)</b>							
<b>Single Focus (B1 : 30Cr)</b>							
<b>Research Focus (B1 : 30Cr)</b>							
OCEA0057-7	Marine Ecology (anglais) - Marine ecology - Krishna DAS, Sylvie GOBERT - [5h TD] - Introduction to marine ecosystems modelling - Marilaure GRÉGOIRE - Marine ecology fieldtrip - Krishna DAS, Sylvie GOBERT - [6j T. t.]	B1	TA				6
			10	-	[+]		
			15	15	-		
			-	-	[+]		
Courses totaling 24 credits have to be chosen among : (B1 : 24Cr)							
<b>Framework : global ocean environment</b>							
OCEA0055-5	Biogeochemical Cycles in the Ocean (anglais) - Biogeochemistry 1 - Bruno DELILLE, Anne MOUCHET - Biogeochemistry 2 (Advanced Marine Geochemistry) - Bruno DELILLE, Anne MOUCHET	B1	Q1				6
			20	-	-		
			20	-	-		
OCEA0056-1	Marine Plant Biology and Ecology (anglais) - Marine phanerogames ecology - Sylvie GOBERT - Techniques of sampling in marine ecology - Sylvie GOBERT	B1	Q1				6
			15	10	-		
			15	10	-		
OCEA0082-1	Carbon, nutrient, greenhouse gases dynamics in marine ecosystems and geological oceanography (anglais) - Carbon, nutrient, greenhouse gases dynamics in marine ecosystems - Alberto BORGES - Marine sediment geochemistry - Nathalie FAGEL	B1	Q1				6
			20	5	-		
			15	15	-		
OCEA0059-1	Remote Sensing of the Oceans (anglais) - Introduction to satellite oceanography - Aida ALVERA AZCARATE - Advanced satellite oceanography - Aida ALVERA AZCARATE	B1	Q1				6
			15	15	-		
			15	15	-		
<b>Scientific challenges &amp; opportunities : marine environment protection &amp; resources protection</b>							
OCEA0225-1	Professional practice in marine / environmental sectors (anglais) - Sylvie GOBERT, N...	B1	Q2	-	-	-	6
OCEA0060-1	Advanced Marine Zoology (anglais) - Ecoethology of the marine animals - Christian MICHEL - Ecology of the coral reefs - N..., Stéphane ROBERTY	B1	Q1				6
			30	-	-		
			30	-	-		
OCEA0080-1	Biochemistry, Physiology and Aquariology (anglais) - Physiology and biochemistry of the marine animals - Philippe COMPÈRE - Aquariology - Christian MICHEL	B1	Q1				6
			15	15	-		
			15	-	-		
OCEA0062-6	Ecotoxicology and Biodegradation of Marine Pollutants, Marine ecotoxicology (anglais) - Krishna DAS	B1	Q1	15	15	-	6
OCEA0063-1	Biology of Marine Mammals (anglais) - Part I : Ecology and ecotoxicology - Krishna DAS - Part II : Pathology and necropsies - Thierry JAUNIAUX	B1	Q1				6
			15	-	-		
			15	10	-		
OCEA0064-1	Functional and Molecular Marine Microbiology, Molecular approaches to the diversity of marine microorganisms (anglais) - Annick WILMOTTE	B1	Q1	15	15	-	6

**Data analysis : interpretation of environmental data**

OCEA0081-1 *Numerical methods in geophysics - Part 2 (anglais)* -  
JeanMarie BECKERS

B1 Q1 15 30 - 6