

**Vue cycle du programme des cours**

		B1	Or	Th	Pr	Au	Cr
<b>Compulsory courses within the focus (B1 : 18Cr)</b>							
OCEA0057-9	<i>Marine Ecology</i> (anglais) - <i>Marine ecology</i> - Krishna DAS, Sylvie GOBERT - [5h TD] - <i>Marine ecology fieldtrip</i> - Krishna DAS, Sylvie GOBERT - [6j T. t.]	B1	TA 10	-	[+] [+]		<b>6</b>
OCEA0062-6	<i>Ecotoxicology and Biodegradation of Marine Pollutants, Marine ecotoxicology</i> (anglais) - Krishna DAS - [15h TD]	B1	Q1	15	-	[+]	<b>6</b>
OCEA0228-1	<i>Ecotoxicology and risk quantification</i> - <i>Ecotoxicology</i> - Célia JOAQUIMJUSTO - <i>Quantification of the environmental risk associated with pollutants and decision-making</i> - Célia JOAQUIMJUSTO	B1	Q1 20	18	-		<b>6</b>
			16	8	-		
<b>Optional courses withing the focus (B1 : 12Cr)</b>							
Courses totalling 12 credits have to be chosen among: (B1 : 12Cr)							
OCEA0063-1	<i>Biology of Marine Mammals</i> (anglais) - <i>Part I : Ecology and ecotoxicology</i> - Krishna DAS - <i>Part II : Pathology and necropsies</i> - Thierry JAUNIAUX	B1	Q1 15	-	-		<b>6</b>
			15	10	-		
OCEA0055-5	<i>Biogeochemical Cycles in the Ocean</i> (anglais) - <i>Biogeochemistry 1</i> - Odile CRABECK, Bruno DELILLE - <i>Biogeochemistry 2 (Advanced Marine Geochemistry)</i> - Odile CRABECK, Bruno DELILLE	B1	Q1 20	-	-		<b>6</b>
			20	-	-		
OCEA0082-1	<i>Carbon, nutrient, greenhouse gases dynamics in marine ecosystems and geological oceanography</i> (anglais) - <i>Carbon, nutrient, greenhouse gases dynamics in marine ecosystems</i> - Alberto BORGES - <i>Marine sediment geochemistry</i> - Nathalie FAGEL	B1	Q1 20	5	-		<b>6</b>
			15	15	-		
OCEA0229-1	<i>Mathematical analysis and modelling methods applied to the environment / Introduction to marine ecosystems modelling</i> (anglais) - <i>Introduction to marine ecosystems modelling</i> - Marilaure GRÉGOIRE - <i>Mathematical analysis and modelling methods applied to the environment</i> - Marilaure GRÉGOIRE	B1	Q1 15	15	-		<b>6</b>
			20	20	-		
<b>Compulsory course (B2 : 30Cr)</b>							
STFE0033-1	<i>Master thesis</i> (anglais)	B2	TA	-	-	-	<b>30</b>