

#### Cycle view of the study programme

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