Courses of the Master Degree  
**Marine Biology and Aquaculture**

***New Didactic Plain from A.Y. 2021/2022***

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| **1th YEAR 1th SEMESTER (*both curricula*)** | | | | |
| **COURSES** | **MODULES** | **ECT** | **PROF** | **SEMESTER** |
| **Physical and chemical oceanography** |  | 6 | GEO/02 | **I** |
| **Biodiversity of marine environment and monitoring** | **Marine animal biodiversity** | 6 | Anna Di Cosmo | **I** |
| **Marine plant biodiversity** | 6 | BIO/01 |
| **Marine microbial biodiversity** |  | 6 | Donato Giovannelli | **I** |
| **Algal biology** |  | 6 | Karl Joseph Duffy | **I** |
| **Observational strategy and scientific diving** |  | 6 | Gianluca Polese | **I** |

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| **1th YEAR 2nd SEMESTER *Curriculum Marine Biology*** | | | | |
| **COURSES** | **MODULES** | **ECT** | **PROF** | **SEMESTER** |
| **Marine ecology** |  | 6 | Simonetta Fraschetti | **I** |
| **Developmental biology and physiology of marine organisms** | **Developmental biology of marine organisms** | 6 | Chiara Maria Motta | **I** |
| **Physiology of marine organisms** | 6 | Claudio Agnisola |
| **Optional activitiy** |  | 6 |  |  |
| **TOTAL ECT 1th Year** |  | 60 |  |  |

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| **1th YEAR 2nd SEMESTER *Curriculum Marine Aquaculture*** | | | | |
| **COURSES** | **MODULES** | **ECT** | **PROF** | **SEMESTER** |
| **Fishery ecology** |  | 6 | BIO/07 | **I** |
| **Nutrition physiology and functional anatomy of fish** | **Functional anatomy of fish** | 6 | Giulia Guerriero | **I** |
| **Nutrition physiology and animal welfare in aquaculture** | 6 | Maria Pina Mollica |
| **Optional activitiy** |  | 6 |  |  |
| **TOTAL ECT 1th Year** |  | 60 |  |  |

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| **2nd YEAR *Curriculum Marine Biology (from a.y. 2022/2023)*** | | | |
| **COURSES** | **ECT** | **PROF** | **SEMESTER** |
| **Marine genomics** | 6 |  |  |
| **Biochemical adaptation to marine environment** | 6 |  |  |
| **Marine animals ecopathology** | 6 |  |  |
| **Optional activitiy** | 6 |  |  |
| **Internship/acquisition of italian language** | 6 |  |  |
| **Thesis** | 30 |  |  |
| **TOTAL ECT 2nd Year** | 60 |  |  |

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| **2nd YEAR *Curriculum Marine Aquaculture (from a.y. 2022/2023)*** | | | | |
| **COURSES** | **MODULES** | **ECT** | **PROF** | **SEMESTER** |
| **Pathology in aquaculture** | **Desease and diagnostic of Mollusc and Crostacean** | 6 |  | **I** |
| **Pathology of Teleost** | 6 |  |
| **Hygiene of aquatic productions** |  | 6 |  |  |
| **Optional activitiy** |  | 6 |  |  |
| **Internship/acquisition of italian language** |  |  |  |  |
| **Thesis** |  | 30 |  |  |
| **TOTAL ECT 2nd Year** |  |  |  |  |

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| **OPTIONAL COURSES** | | | |
| **INSEGNAMENTI** | **CFU** | **DOCENTI** | **SEMESTRE** |
| **Marine Geology (GEO/04/05)** | 6 | David Iacopini |  |
| **Management of Marine Resources** | 6 | BIO/07 |  |