**Master studies in Global Change Biology**

**· Two year master studies headed by international experts in environmental and evolutionary biology, macroecology and biogeography, molecular and evolutionary ecology, and bio-conservation**

**· Courses in animal and plant biogeography, molecular ecology, invasive species, parasites and diseases**

**· Courses in genetically modified organisms and molecular ecology**

**· Training in geostatistical analyses and advanced ecological modelling**

**· Applications of ecosystem services**

**· Management of protected areas and legal issues**

**· Introductory courses in biological data analyses and the R environment**

**· Whole program in English**

**· Attractive financial conditions**

**Access the full course program from xxx**

**Lecture Plan**

**1. term**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Module | Lecture / Course | Number ECTS points | Contact hours | | | | | Marks |
| Lecture | Course | Lab | Practices | Seminar |
| Ecology and Evolution | Evolutionary ecology | 2 | 20 |  |  |  |  | Test |
| Environmental genomics | 2 |  |  | 15 |  |  | Test |
| Bioconservation | Hydrobiology and water management | 3 | 15 |  | 20 |  |  | Test |
| Urbanization and the future of natural resources | 4 | 20 |  | 20 |  |  | Test |
| Data handling | Data compilation, organization, and analysis in biology | 2 |  |  | 30 |  |  | Test |
| Scientific publishing | 2 |  |  | 15 |  |  | Test |
| Basics in climatic modelling | 5 | 20 |  | 20 |  |  | **Exam** |
| Realisation of Master Thesis | Journal Club | 3 |  |  |  |  | 30 | Test |
| Lab | 7 |  |  |  | 60 |  | Test |
| **Sum:** |  | **30** | **75** |  | **120** | **60** | **30** | **285** |

**2. term**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Module | Lecture / Course | Number ECTS points | Contact hours | | | | | Marks |
| Lecture | Course | Lab | Practices | Seminar |
| Social and legal affairs | European legal regulations in environmental protection | 3 | 15 | 15 |  |  |  | Test |
| Ecology and Evolution | Dynamic plant biogeography | 3 | 10 |  | 20 |  |  | Test |
| Dynamic animal biogeography | 4 | 15 |  | 20 |  |  | Test |
| Dynamic marine and freshwater biogeography | 4 | 15 |  | 20 |  |  | Test |
| Data handling | Advanced techniques in environmental data analysis | 4 | 15 |  | 30 |  |  | Test |
| Bioconservation | Environmental impacts of genetically modified organisms | 2 | 15 |  |  |  |  | **Exam** |
| Realisation of Master Thesis | Journal Club | 3 |  |  |  |  | 30 | Test |
| Lab | 7 |  |  |  | 60 |  | Test |
| **Sum:** |  | **30** | **85** | **15** | **90** | **60** | **30** | **280** |

**3. term**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Module | Lecture / Course | Number ECTS points | Contact hours | | | | | Marks |
| Lecture | Course | Lab | Practices | Seminar |
| Social and legal affairs | Socioeconomic aspects of global change | 3 | 20 | 15 |  |  |  | **Exam** |
| Bioconservation | Applied ecosystem services | 5 | 15 |  | 30 |  |  | **Exam** |
| The future of land use | 5 | 15 |  | 30 |  |  | Test |
| The last of the wild: European protected areas | 4 | 15 |  | 30 |  |  | Test |
| Data handling | Applied geostatistical analysis | 3 |  |  | 30 |  |  | Test |
| Realisation of Master Thesis | Journal Club | 3 |  |  |  |  | 30 | Test |
| Lab | 7 |  |  |  | 60 |  | Test |
| **Sum:** |  | **30** | **65** | **15** | **120** | **60** | **30** | **290** |

**4. term**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Module | Lecture / Course | Number ECTS points | Contact hours | | | | | Marks |
| Lecture | Course | Lab | Practices | Seminar |
| Ecology and Evolution | Molecular biogeography | 5 | 15 |  | 30 |  |  | **Exam** |
| The global dynamics of parasites and diseases | 4 | 15 |  | 30 |  |  | Test |
| Bioconservation | Ecological impacts of invasive species | 4 | 15 |  | 30 |  |  | Test |
| Case studies in global change | 4 |  | 20 |  |  |  | Test |
| Realisation of Master Thesis | Journal Club | 3 |  |  |  |  | 30 | Test |
| Lab | 7 |  |  |  | 60 |  | Test |
| Preparation of MSc thesis | 3 |  |  |  |  |  | Test |
| MSc exam |  |  |  |  |  |  | **Exam** |
| **Sum:** |  | **30** | **45** | **20** | **90** | **60** | **30** | **245** |