## Master in Environmental Biology - Spring semester - Overview

<table>
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<th>Monday</th>
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| **8h15 – 9h** | **Phylogenetics and comparative methods** SBL.20033  
Weeks 1 to 3, 9h15 to 12h and 13h15 to 15h | **Phylogenetics and comparative methods** SBL.20033  
Weeks 1 to 2, 9h15 to 12h and 13h15 to 15h  
and week 3, 9h15 to 12h | **Structure and functions of host-associated microbiota** SBL.20035 | **Evolution on the bench** SBL.00417 |
| **9h15 – 10h** | **Evolutionary genomics** SBL.20034  
Weeks 11 to 14, 9h15 to 12h and 14h15 to 17h | **Critical reading** SBL.20005  
(every two years) | **Metagenomics data analysis** SBL.00425  
Weeks 3 to 7  
followed by | **Classical models in biology** (lecture) SBL.06002 |
| **10h15 – 11h** | **Seminars in Biology** SBL.00431 & SBL.00432 | **Evolutionary genomics** SBL.20034  
Weeks 11 to 14, 9h15 to 12h | **Classical models in biology** (exercises) SBL.06003  
Weeks 9 to 12 and 14 | **Research Seminars in Environmental Biology** SBL.20081 & SBL.20082 |
| **11h15 – 12h** | **Issues of sustainable development (advanced)** SSE.00444 | **Introduction to metabolomics: data acquisition and processing** SBL.20004  
Weeks 5-12 | | **Advanced quantitative proteomics** SBL.00452  
Week 11, 13h15 to 18h |
| **12h15 – 13h** | **Plant development: the life of a sessile organism** SBL.00308  
Weeks 2 to 5 | **Advanced quantitative proteomics** SBL.00452  
Week 11, 13h15 to 18h | | **Advanced imaging** SBL.00419 |
| **13h15 – 14h** | **Symbiosis: how plants and microbes communicate** SBL.00307  
Weeks 6 to 9  
in alternance with | **Community ecology** SBL.20031  
in alternance with  
Population and evolutionary dynamics SBL.20032 | | |
| **14h15 – 15h** | **Plant biotechnology** SBL.00323  
Weeks 1 to 14 – 15h15 to 17h | **Research Seminars in Environmental Biology** SBL.20081 & SBL.20082 | | |
| **15h15 – 16h** | **Introduction to metabolomics: data acquisition and processing** SBL.20004  
Weeks 5-12 | | | |
| **16h15 – 17h** | | | | |
| **17h15 – 18h** | | | | |

**Legend:**
- **Obligatory** courses for at least one of the four options are in **roman**
- **Recommended** courses are in **italic**
- Colour:
  - **Research skills**
  - **Scientific core courses**
  - **Thesis related activities**

Note that the **Topical courses** are not included (usually on Thursday and Friday afternoon): see **Moodle page SBL.04000**

Recommended topical courses:
- **Evolution on the bench** SBL.00417
- **Microbial metabolism and genetics** SBL.00418
- **Advanced imaging** SBL.00419