

Programme

The programme consists of 30 EC. For more information about the content of the courses and the entry requirements, please check the course catalogue.

Biology, Bèta-Gamma (major biology) and Science Technology and Innovation (track engineering life and health) students

In period 1, you can choose *Evolution and Development*, through which you gain insight into the molecular mechanisms that orchestrate development of organisms and how those evolved. Another option is to choose *Enzymes and Biocatalysis* and *Programming for minor Computational Science*. With the latter, you lay a foundation in programming with Python. In *Enzymes and Biocatalysis* you will learn about state-of-the-art theory and methods for recombinant enzyme production and engineering, including the utilization of unnatural amino acids.

In period 2a, you choose *Ecogenomics* or *From Microbes to Microbiomes*. In *Ecogenomics* you learn about genetic and molecular mechanisms that underpin the reactions and adaptations of organisms to their natural environment. In *From Microbes to Microbiomes*, you learn about the complexity and role of the microbiome in various organisms. In period 2b, you will work on fundamental biomedical research in the *Practicum Experimental Genomics* and in period 3, you can then choose *Gene Regulation* or *Advanced Genomics Analysis*, the latter having more emphasis on bioinformatics.

International students

For international students, the minor is comprised of the following courses: *Evolution and Development*, *Ecogenomics* or *From Microbes to Microbiomes*, *Practicum Experimental Genomics* and *Gene Regulation*.