Master Biology
at Wageningen University

Learn about current biological advances and data science

Specialise in:
• Cell Biology and Molecular Interactions
• Development and Adaptation
• Health and Disease
• Ecology

Follow your own interests, inside or outside of biology

Develop you academic skills. Work as a consultant or write a PhD proposal

Year 1
Common courses 12 ECTS

Specialisation courses 12 ECTS

Electives 24 ECTS

Academic Master Cluster 12 ECTS

Year 2
Thesis 36 ECTS

Internship 24 ECTS

Conduct a research project at Wageningen University

Gain work experience outside of WUR, in the Netherlands or abroad

More info:
wur.eu/mbi biology@wur.nl

What kind of jobs can you do after the master Biology?
Read the stories of alumni here!
In this specialisation you will study processes at a molecular and cellular level. You will work with state of the art research techniques in order to understand complex biological processes and phenomena such as evolution, aging, symbiosis, physiology and immunology.

**Specialisation Cell Biology and Molecular Interactions**

In the specialisation Development and Adaptation you will study how individual organisms, particularly plants and animals, adapt to their biotic and abiotic environment, both during development and in adult life. To study this, you will use biomechanics, behavioural observations, genetic principles, biochemical analysis, molecular and physiological techniques.

**Specialisation Development and Adaptation**

The specialisation Health and Disease focuses on the prevention of health problems and the functioning of healthy animals. Therefore, you will learn about molecular, immunological, virological, physiological and disease ecological approaches.

**Specialisation Health and Disease**

In the specialisation Ecology you will learn about the conservation of biodiversity and ecosystem functioning in changing environments. Field research, molecular techniques, modelling and quantitative analysis of large datasets form an integral part of this specialisation.

**Specialisation Ecology**

Choose at least one literature & scientific analysis course:
- Control of Cell Processes & Differentiation
- Comparative Biology and Systematics
- Advanced Cellular Imaging Techniques

Choose at least one research skills course:
- Immunotechnology
- Genetic Analysis Trends and Concepts
- Molecular Aspects of Bio-interactions
- Genomics

**Thesis and internship chair groups:**
- Animal Breeding and Genomics
- Biochemistry
- Biosystematics
- Cell Biology
- Entomology
- Genetics
- Human and Animal Physiology
- Marine Animal Ecology
- Microbiology
- Molecular Biology
- Nematology
- Phytopathology
- Plant Physiology
- Systems and Synthetic Biology

Choose at least one research skills course:
- Genetic Analysis Trends and Concepts
- Vertebrate Structure and Function
- Molecular Aspects of Bio-interactions
- Developmental Biology of Animals

**Thesis and internship chair groups:**
- Aquaculture and Fisheries
- Cell Biology and Immunology
- Environmental Systems Analysis
- Human and Animal Physiology
- Host-Microbe Interactomics
- Nutritional Metabolism and Genomics
- Microbiology
- Nematology
- Wildlife Ecology and Conservation
- Systems and Synthetic Biology
- Toxicology
- Virology

Choose at least one literature & scientific analysis course:
- Molecular Regulation in Health & Disease
- Human and Veterinary Immunology
- Human Microbiome
- Fundamental and Applied Virology
- Intestine Microbiota Interactions

**Thesis and internship chair groups:**
- Aquaculture and Fisheries
- Cell Biology and Immunology
- Environmental Systems Analysis
- Human and Animal Physiology
- Host-Microbe Interactomics
- Nutritional Metabolism and Genomics
- Microbiology
- Nematology
- Wildlife Ecology and Conservation
- Systems and Synthetic Biology
- Toxicology
- Virology

Choose at least one research skills course:
- Ecological Aspects of Bio-interactions
- Molecular Aspects of Bio-interactions
- Biological Interactions in Soils
- Environmental Toxicology
- Behavioural Ecology
- Disease Ecology
- Plant, Vegetation and Systems Ecology
- Animal Ecology

**Thesis and internship chair groups:**
- Animal Breeding and Genomics
- Aquatic Ecology and Water Quality
- Aquaculture and Fisheries
- Behavioural Ecology
- Biosystematics
- Crop and Weed Ecology
- Entomology
- Environmental Systems Analysis
- Forest Ecology and Forest Management
- Genetics
- Marine Animal Ecology
- Microbiology
- Nematology
- Plant Ecology and Nature Conservation
- Phytopathology
- Plant Physiology
- Plant Production Systems
- Wildlife Ecology and Conservation
- Soil Biology
- Toxicology

The programme may change; no rights can be derived from this overview.