

Master Biology

at Wageningen University

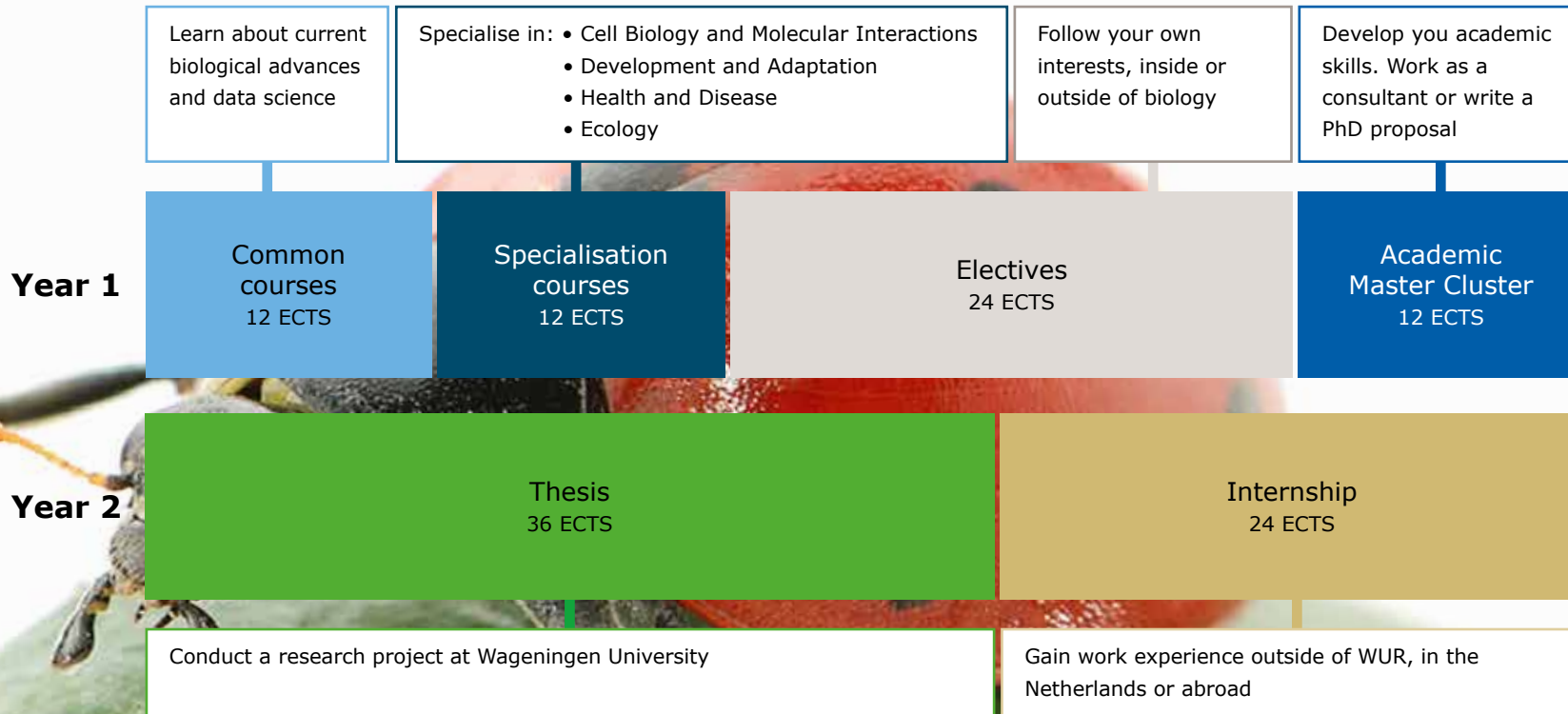
More info:



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biology@wur.nl



Specialisation Cell Biology and Molecular Interactions



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.

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

Specialisation Development and Adaptation



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.

Choose at least one literature & scientific analysis course:

- Comparative Biology and Systematics
- Biomimetics
- Regulation of Plant Development
- Plant-Microbe Interactions
- Marine Animal Ecology
- Plant Plasticity and Adaptation
- Perennial Plant Health

Choose at least one research skills course:

- Genetic Analysis Trends and Concepts
- Vertebrate Structure and Function
- Molecular Aspects of Bio-interactions
- Functional Zoology
- Behavioural Ecology
- Developmental Biology of Animals

Thesis and internship chair groups:

- Aquaculture and Fisheries
- Behavioural Ecology
- Biochemistry
- Biosystematics
- Cell Biology
- Entomology
- Experimental Zoology
- Genetics
- Marine Animal Ecology
- Molecular Biology
- Nematology
- Phytopathology
- Plant Physiology
- Wildlife Ecology and Conservation

Specialisation Health and Disease



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.

Choose at least one literature & scientific analysis course:

- Molecular Regulation of Health & Disease
- Human and Veterinary Immunology
- Human Microbiome
- Fundamental and Applied Virology
- Intestine Microbiota Interactions

Choose at least one research skills course:

- Host-Parasite Interactions
- Immunotechnology
- Brain, Hormones and Metabolism
- Disease Ecology

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

Specialisation Ecology



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.

Choose at least one literature & scientific analysis course:

- Marine Systems
- Microbial Ecology
- Complexity in Ecological Systems
- Comparative Biology and Systematics
- Ecological Modelling and Analysis
- Fisheries Ecology
- Forest Ecology and Forest Management
- Population and Quantitative Genetics
- Marine Animal Ecology

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