

Faculty of Biology - Master Modules
Advanced modules winter semester 2026/27

13.10.2026

Module offer for the upcoming winter semester will be updated in September.

Winter semester 2026/27
Block I 26.10. - 20.11.2026
Block II 23.11. - 18.12.2026
Block III 04.01. - 29.01.2027
Block IV 01.02. - 26.02.2027
Block V: individual dates

Please contact the respective teachers if you have any questions about the modules.

Block I

Title	Language	ECTS
Ciliary Structure, Motion and Function	english	6
Integrative Biology	optional german /english	6
Fermentative production of biotechnological products prerequisite: previous microbiology/biotechnology lab courses (at least 9 ECTS)	english	6

Block II

Title	Language	ECTS
Concepts and current topics in evolution	english	6
Drug effects on mitochondria	english	6
Genetic tools for targeted and acute protein depletion	optional german /english	6
Protein interactions and quantitative mass spectrometry	english	6
Tierschutz	german	6

Block III

Title	Language	ECTS
Evolutionary Plant Biology	english	6
Molecular Physiology	optional german /english	6
Principles in Neurogenetics and Cell Biology of Drosophila	optional german /english	6

Block IV

Title	Language	ECTS
Biocomputing I (Bioinformatics III) – Programming in Python	english	6
Biocomputing II - Advanced Python	english	6
Genome Editing in Plants	english	6
Introduction to modern microscopy and image analysis	optional german /english	6
Methods in functional proteomics	optional german /english	6
Microbial interspecies interactions	optional german /english	6

Block V

Title	Date	Language	ECTS
Bioanalytics	4 weeks, according to prior agreement	optional german /english	6
Molecular and genetic analysis of the circadian clock in <i>Drosophila melanogaster</i>	4 weeks, according to prior agreement	optional german /english	6
Molecular Evolutionary Biology of Social Insects	4 weeks, according to prior agreement	english	6
Molecular genetics and molecular cell biology of plants I prerequisite: solid knowledge in molecular genetics and cell biology	4 weeks, according to prior agreement	optional german /english	6
Physiologie des Zooplanktons	01.03.-02.04.2027	german	6