

**Faculty of Biology – Master Modules
Academic Year 2024/25**

01.04.2025

Module offer for the upcoming summer term will be updated in March.

Summer term 2025

Block I 22.04. - 16.05.2025

Block II 19.05.2025 - 20.06.2025

Block III 23.6-18.7.2025

Block IV: individual dates

Block I

Course title	Language	ECTS
Advanced statistical methods for biological data analysis	english	6
Microbial carbon metabolism	optional german /english	6
Molecular BioEngineering	optional german /english	6
Molekulare Biotechnologie der Pflanzen	german	6
The social life of mammals	optional german /english	6

Block II

Course title	Language	ECTS
Bacterial degradation of toxic compounds: metabolic pathways, resistance mechanisms and biofilm formation	optional german /english	6
Evolutionary Protein Engineering	english	6
FROM FAKE TO FACT – Experimental design and data analysis in behavioural research	optional german /english	6
Mitochondrial function in health, aging and neuro-degenerative disease	english	6
Modeling of biological systems	english	6

Block III

Course title	Language	ECTS
Computational analysis of transcriptomes and proteomes	english	6
Concepts and current topics in behavioral ecology With excursion	optional german /english	6
Experimental Ecology	english	6
Molecular Phytopathology	optional german /english	6
Professionelle Karriereplanung in den Lebenswissenschaften	german	6
Taxonomie der Bakterien	german	6

Block IV

Course title	Date	Language	ECTS
Biodiversity of Inland Waters	21.07 -18.08.2025	english	6
Biologie des Wattenmeeres	Lecture throughout the semester (Tuesday 18:15), 01.09.2025-14.09.2025	german	6
Fermentative production of biotechnological products	1.09.-26.09.2025	optional german /english	6
FRET-FLIM Analysis of Living Cells	4 weeks, according to prior agreement	optional german /english	6
Marines Plankton With excursion	Lecture throughout the semester (Tuesday 18:15), 05.07.2025 bis 13.07.2025	german	6
Mediterranean Fauna With excursion	Lecture throughout the semester (18:00) and excursion in Aug/Sep	english	6
Molecular and genetic analysis of the circadian clock in Drosophila melanogaster	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 Physiology	4 weeks, according to prior agreement	optional german /english	6
Ökologie des Wattenmeeres With excursion	Lecture throughout the semester (Tuesday 18:15), 28.07.2025 bis 09.08.2025	german	6

<u>Ornithologische Übungen</u> With excursion	10.05.-19.05.2025 (Gülpe) + 28.04., 02.05., 05.05. & 09.05.2025, 5.00 - 8.30	german	6
Plant Molecular Genetics and Cell Biology	4 weeks, according to prior agreement	optional german /english	6
<u>Wachstum?! - Ein Dialog zwischen sozial- und naturwissenschaftlichen Perspektiven</u>	throughout the semester, b arrangement	german	6