

## Faculty of Natural Sciences | English-taught courses

### (Under-)Graduate Courses

<i>Module Title</i>	<i>Code</i>	<i>Winter/Summer Semester</i>	<i>ECTS</i>	<i>Responsible Chair</i>
Advanced Meat Science and Technology	1507-500	WS	7,5	Prof. Jochen Weiss
Advanced Practical in Chromatin Biology	1905-210	SS	6	Prof. Chang Liu
Advanced Process Engineering Techniques for Cereal Processing	1509-500	SS	7,5	Prof. Mario Jekle
Advanced Seminars in Genetics and Genomics	1907-240	WS	6	Prof. Kristen Panfilio
AgFoodTech	1507-450	WS/SS	7,5	Prof. Jochen Weiss
Agricultural and Forest Meteorology	1201-590	WS	6	Prof. Volker Wulfmeyer
Applied Mathematics for the Life Sciences II	1101-410	SS	7,5	Prof. Philipp Kügler
Basics in Bioinformatics	1905-220	SS	6	Prof. Chang Liu
Bioethanol and Distilled Spirits	1506-500	SS	7,5	Prof. Ralf Kölling-Paternoga
Botanical Excursion in the Mediterranean	1902-470	WS	7,5	Prof. Philipp Schlüter
Cellular Microbiology	1909-430	SS	7,5	Prof. Julia Fritz-Steuber
Chemical Analytical Methods	1508-400	WS	7,5	Prof. Yanyan Zhang
Chemistry of the Earth System & Pollution	1301-470	WS	6	N.N.
Climate Change and Climate and Climate Protection	1201-420	WS	6	Prof. Volker Wulfmeyer
Climate History and Evolution of the Earth System	1201-560	SS	4	Prof. Volker Wulfmeyer
Computational Ecology: Modelling Systems Across Scales	1913-200	WS	6	Dr. Korinna Allhoff
Computational Thinking	1511-400	WS	6	Prof. Dr. Christian Krupitzer

Debate Seminar	1201-570	SS	2	Prof. Volker Wulfmeyer
Drying, Granulation and Instantisation	1503-540	SS	7,5	Prof. Reinhard Kohlus
Ecology and Agroecosystems	4906-410	WS	6	Prof. Ingo Graß
Encapsulation of Functional Food Components	1507-410	WS	7,5	Prof. Jochen Weiss
Energy and Water Regime at the Land Surface	3103-500	SS	6	Prof. Thilo Streck
Environmental and Resource Economics	4101-410	SS	6	Prof. Christian Lippert
Enzymatic Reactions	1502-410	WS	7,5	Prof. Lutz Fischer
Ethical Reflection on Food and Agriculture	4302-420	WS	6	Prof. Claudia Bieling
Experimental Plant Genomics	1905-200	WS	6	Prof. Chang Liu
Food Product Development: From Concept Ideation to Product Launch	1507-520	WS	7,5	Prof. Jochen Weiss
Food Microbiology	1501-440	WS	7,5	Prof. Herbert Schmidt
Food and Nutrition Security	4902-430	WS	6	Prof. Manfred Zeller
Food Process Design I - Efficient Processing and Transport Phenomena	1503-520	WS	7,5	Prof. Reinhard Kohlus
Food Process Design II - Process Integration and Scale up	1503-500	SS	7,5	Prof. Reinhard Kohlus
Free Project Work	1500-020	WS + SS	7,5	Prof. Lutz Fischer
Functional Genomics in the Three-Dimensional World	1905-400	WS	7,5	Prof. Chang Liu
Genetic Engineering Techniques in Microbiology	1501-460	WS	7,5	Prof. Herbert Schmidt
Genetics of floral traits	1902-480	SS	7,5	Prof. Philipp Schlüter
Global Agri-food Systems: Conventional, Organic, and Beyond	4302-460	WS	6	Prof. Claudia Bieling
Global Change Issues	3202-420	WS	6	Prof. Andreas Fangmeier
Global Nutrition and Food Security	1403-400	WS	7,5	Prof. Jan Frank
Honey bee research and beekeeping techniques	7301-430	SS	7,5	Dr. Kirsten Traynor

Identification and characterization of foodborne microorganisms	1501-410	SS	7,5	Prof. Herbert Schmidt
Integrated Bioprocess Engineering - Bioproduction	1510-420	SS	7,5	Prof. Rudolf Hausmann
Integrated Bioprocess Engineering - Upstream Processing	1510-440	WS	7,5	Prof. Rudolf Hausmann
Integrated Bioprocess Engineering – Bioseparation Process Science (Downstream Processing)	1510-430	WS	7,5	Prof. Rudolf Hausmann
Land Use Economics	4904-430	WS	6	Prof. Thomas Berger
Lecture Series Earth System Science	1201-550	WS	2	Prof. Volker Wulfmeyer
Mathematics and Computational Sciences of the Earth System	1102-400	WS	4	apl. Prof. Georg Zimmermann
Measurement, Modeling and Data Assimilation I	1201-520	SS	6	Prof. Volker Wulfmeyer
Natural Resource Use and Conservation in the Tropics and Subtropics	4907-410	WS	6	Prof. Folkard Asch
Dairy Science and Technology (online!)	1505-450	SS	5	Prof. Jörg Hinrichs
Pathogens, Parasites and their Hosts, Ecology, Molecular Interactions and Evolution / International Summer School	1916-401	SS	7,5	Prof. Ute Mackenstedt
Plant and Crop Modeling	3103-410	WS	6	Hon.-Prof. Eckart Priesack
Poverty and Development Strategies	4901-420	WS	6	Prof. Manfred Zeller
Process Driven Product Design: Cereals and Sweets	1503-510	WS	7,5	Prof. Reinhard Kohlus
Project Work (elective)	1500-520	WS + SS	7,5	Prof. Lutz Fischer
Quantitative Methods in Economics	4901-470	WS	6	Prof. Manfred Zeller
Remote Sensing of the Earth System	1201-500	SS	6	Prof. Volker Wulfmeyer
Research Project Biotechnology and Enzyme Science	1502-050/ 060/070	WS + SS	7,5-18	Prof. Lutz Fischer
Seminar in epigenetics and chromatin biology	1905-410	SS	7,5	Prof. Dr. Chang Liu
Seminar in Plant Proteomics and Systems Biology	1904-900	WS + SS	2	Prof. Waltraud Schulze
Seminar on Mediterranean vegetation ecology	1901-220	WS	6	Prof. Anke Steppuhn

Soft Matter Science I - Food Rheology and Structure (online!)	1505-500	WS	5	Prof Jörg Hinrichs
Soft Matter Science II - Food Physics	1507-510	SS	7,5	Prof. Jochen Weiss
Special Topics of Earth System Science	1201-620	SS	6	Prof. Volker Wulfmeyer
SPOC: Introduction to Food Systems	1507-440	WS + SS	7,5	Prof. Jochen Weiss
Theoretical Ecology: From Chaos to Coexistence	1913-400	SS	7,5	Dr. Korinna Allhoff

*Last update August 2023*