

Module Title: Molecular Crop Science Project 1								
Module ID/Code: NPW-038 [780800380]								
1. Content and intended learning outcomes								
Learning content:	For the profile (Schwerpunkt) Molecular Crop Science, two projects are obligatory. Students work in one of the associated labs on a small research project. The content of the individual research project is as diverse as the research subjects of the participating lecturers, which include Plant Breeding, Molecular Biology of the Rhizosphere, Molecular Phytomedicine, Crop Functional Genomics, Crop Bioinformatics, Chemical Signalling and Molecular Biotechnology. Independent of the chosen project the course will provide key information about concepts in molecular analysis of crops which includes basic knowledge of tools and experimental strategies used in molecular crop sciences. The research project will be regularly discussed in tutorials and the outcome presented in oral form in a research seminar of the participating laboratories with a poster presentation at the end of the project.							
Learning outcomes								
After a successful completion of the course, the students...								
<ul style="list-style-type: none"> - project planning and management. - lab work and organisation. - scientific writing. - critical reading. - scientific communication and oral presentation of results. 								
2. Prerequisites								
obligatory	Crop Physiology, Crop Breeding Research, Data Analysis and Visualization at least one lab class							
recommended								
Maximum number of students								
3. Study program allocation								
Study program						Compulsory/ Elective	Semester	
M.Sc. Crop Sciences						C Focus MCS	2.	
4. Teaching and learning methodes								
Type of course	Interval	Topic	Language of instruction	Group size	SWS	Workload [h]		
						Contact time	Self-study	
P* (blocked)	full-day block	to be chosen from offered projects	English	1	2,0	30,0	130,0	
S (blocked)	full-day block	Presentation and discussion of results	English	30	1,0	5,0	15,0	
5. Course cycle				6. Workload [h]		7. Duration		8. Credits (ECTS)
SS				180		1		6,0
9. Requirements for the rewarding of credits (ECTS)								
Types of Assessment	Prerequisites for admission to the Assessment				Graded yes/no	Language (exam)	Weighting factor	
none					not graded	English		
Academic Achievements								
Completion of lab project, Report on lab project								
10. Module coordination								
Module coordinator								
Prof. Dr. Andreas Meyer								
Teaching person								
Prof. Dr. Heiko Schoof; Prof. Dr. Peter Dörmann; Prof. Dr. Gabriel Schaaf; Prof. Dr. Andreas Meyer; Prof. Dr. Claudia Knief; Prof. Dr. Florian Grundler; Prof. Dr. Frank Hochholdinger								
Institute/ Department								
Agrar-, Forst- und Ernährungswissenschaften, Biologie								
11. Further information								