	Mino	r Advanced methods in Plant Breeding -		AMBP	
Coordinator:		KNB	Credits:		15
Elements	ECTS	Name	Mode of exam	Exam Period	Literature
AMBP01	6	Assessment	Assessment	T2	
AMBP02	2	Training Data Analysis	Assignment (O/V/G)	T2	Recommended:
AMBP03	2	Molecular Breeding 1	Written exam	T1	 Acquaah, G. (2012) Principles of Plant genetics and breeding. Wiley-Blackwell.
AMBP04	2	Molecular Breeding 2	Written exam	T2	
AMBP05	3	Training Clonal Propagation	Assignment (O/V/G)	T2	
Entrance requirements:		This minor can only be followed together with the minor Plant breeding and seed production (APSP). Standard requirements for all international students (min. 180 EC background in relevant field of study, appropriate level of English)			
Froiessional lask.		work out different aspects of the breeding program. The aims of the program are set, but you have to decide which germ plasm resources and (novel) breeding tools should be used and how.			
Role:		Assistant Breeder, Research Assistant			
Methods:		Lectures, trainings, assignments, excursions, fieldwork, teamwork and self-study.			
Fields of expertise:		Learning objectives (the student is able to):			
Molecular Breeding		Describe the most important molecular tools to enhance the breeding proces; Discuss laws and regulations regarding genetic modification.			
Training data analysis		Use mixed models, multivariate analysis and spatial analysis to analyse data from novel data collection from field trials.			
Training Clonal propagation and in vitro		Discuss the importance of cell and tissue culture in plant breeding;			
		Apply the most important methods for clonal propagation and tissue culture.			
Plant Breeding in international context		Mention the most important players and developments in the worldwide sector of Plant Breeding.			
Aeres compet	encies				
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Final qualifications

This minor meets the following final qualifications from the bachelor programme of Applied Biology:

1.Design, execute and report biological applied research from the perspective of organism- and population level. 2.Communicate the results of biological research in a manner suitable to the target audience.

3.Appreciate knowledge of biological specialisation, apply latest developments and obtain new knowledge.

5. Have insight in own functioning within the biological field, show sustainable behaviour and be able to justify one's actions within this field.