Georg-August-Universität Göttingen		6 C
Module M.Agr.0180: Mineral Nutrition of Crops Under Different Climate and Environmental Conditions		4 WLH
Learning outcome, core skills: Students acquire knowledge of characteristic propertie cycles of ecosystems of different climate zones and u		Workload: Attendance time 56 h
drivers. Participants develop understanding of important proce abiotic condition of locations, processes in soils and ir nutrient uptake. They know plant adaptation mechanis of the use of stable isotopes for the study of the above	n particular on their effects on plant sms. Students also get knowledge	Self-study time: 124 h
Course: Mineral nutrition of crops under different conditions (Lecture) <i>Contents</i> : Lectures focus on element dynamics in ecosystems si internal turnover processes and dynamics and outputs they will cover sub-arctic over temperate to tropical zo zone a key focus will be on adaptation mechanisms th plants and crops. About one third of the module will ad studying such subjects.	tarting with element inputs, their s. In the course of the semester ones and key examples. In each nat can be found among wild	4 WLH
Examination: Written examination (90 minutes) Examination requirements: Knowledge of key characters of nutrient cycles in different climate zones with respect to major problems of soil fertility, plant nutrient supply and other environmental impacts, including anthropogenic management. Second important focus on adaptation mechanisms in plants to cope with nutritional constraints. Basic knowledge in stable isotope tracer methods and natural stable isotope abundance methods for the study of above research subjects.		6 C
Admission requirements: Recommended previous knowledge: none Basics in plant physiology, chemistry and s		-

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none	Basics in plant physiology, chemistry and soil
	science
Language:	Person responsible for module:
English	Prof. Dr. Klaus Dittert
Course frequency:	Duration:
each winter semester	
Number of repeat examinations permitted:	Recommended semester:
twice	
Maximum number of students:	
36	
Additional notes and regulations:	

After successful conclusion of M.Agr.0103 students can not complete M.Agr.0180