

Georg-August-Universität Göttingen		6 C
Module M.Agr.0001: Practical Course in Agronomy		4 WLH
Learning outcome, core skills: The students learn how to use information obtained by measurements and observations to parameterize, calibrate and validate crop growth simulation models. Students learn to perform phenological observations and measurements of relevant plant growth processes at organ, plant and canopy level. In addition, measurements of agro-climatic variables at (automated weather) stations and of soil characteristics are introduced.		Workload: Attendance time: 56 h Self-study time: 124 h
Course: M.Agr.0001.C Practical course in agronomy (Exercise, Seminar) <i>Contents:</i> Determining phenological development stages, leaf area index, chlorophyll content, photosynthetic light curves, radiation interception by the canopy, leaf gas exchange, organ and canopy temperature, soil physical properties, soil moisture, soil temperature, soil respiration, Nmin, weather station measurements (air temperature and humidity, precipitation, wind, irradiation) above-ground biomass, yield and yield components; introduction to operational crop growth modelling, parameterization, calibration and validation of the crop models.		4 WLH
Examination: 3 Protocols (max. 10 pages) M.Agr.0001.Mp: Practical course in agronomy - Protocols Examination prerequisites: Regular attendance at the exercises Examination requirements: Detailed knowledge of major plant growth and soil physical processes and yield determining factors, basic knowledge about crop growth modelling, processes considered in widely applied models and methods for model parameterization and evaluation. The protocols can be prepared in either German or English.		6 C
Admission requirements: none	Recommended previous knowledge: none	
Language: English	Person responsible for module: Prof. Dr. Stefan Siebert	
Course frequency: each summer semester	Duration: 1 semester[s]	
Number of repeat examinations permitted: twice	Recommended semester:	
Maximum number of students: 12		