

Elective & Consolidation Modules – MSc Physical Geography: Climate & Environmental Sciences

Module	Course	SWS				ECTS	Mein Campus	Examination ¹⁾	Factor grade
		L	E	P	S				

Elective Modules ^{2), 3)}									
Advanced Methods A	Depending on module				2	5	1750	Depending on module	1
Advanced Methods B	Depending on module				2	5	1750	Depending on module	1
Advanced Methods C/ Internship	Depending on module				2	5	1760/ 46061	Depending on module	0
Sum Elective Modules					6	15			

Consolidation Modules - Emphasis on Climate Research (Mein Campus 1800)									
Advanced Methods: Advanced Climate Data Analysis	Advanced Climate Data Analysis				2	5	46080/ 60801	Art und Umfang der Prüfungen sowie die Berechnung der Modulnote sind dem Modulhandbuch zu entnehmen. The type and scope of the examinations and the calculation of the module grade are specified in the module handbook.	1
Advanced Methods: Modeling Physical Systems in the Climate	Modeling Physical Systems in the Climate				2	5	46085/ 60851		1
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				2	5	46090/ 60901		1
Advanced Methods: Tree- Ring Analysis - Applied Dendroecology	Tree-Ring Analysis – Applied Dendroecology				2	5	46095/ 60951		1
Project Planning and Preparation	Project Planning and Preparation ⁴⁾				2	5	46075/ 60751	Preparatory work for the implementation of the research project (Master's Thesis), Research report (20- 50 pages) and reflexive discussion (15-30 min.)	0
Sum Consolidation Modules					10	25			

Consolidation Modules – Emphasis on Geoinformatics (Mein Campus 1810)									
Advanced Methods: Microwave Remote Sensing	Microwave Remote Sensing				2	5	46110/ 61101	Art und Umfang der Prüfungen sowie die Berechnung der Modulnote sind dem Modulhandbuch zu entnehmen. The type and scope of the examinations and the calculation of the module grade are specified in the module handbook.	1
Advanced Methods: Scripting for GIS analysis	Scripting for GIS analysis				2	5	46115/ 61151		1
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				2	5	46090/ 60901		1
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				2	5	46120/ 61201		1
Project Planning and Preparation	Project Planning and Preparation ⁴⁾				2	5	46075/ 60751	Preparatory work for the implementation of the research project (Master's Thesis), Research report (20- 50 pages) and reflexive discussion (15-30 min.)	0
Sum Consolidation Modules					10	25			

Consolidation Modules – Emphasis on Environmental Analysis (Mein Campus 1820)									
Advanced Methods: Soil Science	Soil Science				2	5	46125/ 61251	Art und Umfang der Prüfungen sowie die Berechnung der Modulnote sind dem Modulhandbuch zu entnehmen. The type and scope of the examinations and the calculation of the module grade are specified in the module handbook.	1
Advanced Methods: Tree-Ring Analysis – Applied Dendroecology	Tree-Ring Analysis – Applied Dendroecology				2	5	46095/ 60951		1
Advanced Methods: Stable Isotope Analysis	Stable Isotope Analysis				2	5	46130/ 61301		1
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				2	5	46120/ 61201		1
Project Planning and Preparation	Project Planning and Preparation ⁴⁾				2	5	46075/ 60751	Preparatory work for the implementation of the research project (Master's Thesis), Research report (20-50 pages) and reflexive discussion (15-30 min.)	0
Sum Consolidation Modules					10	25			

¹⁾ Unless otherwise indicated, examinations are graded.

²⁾ Selection from among modules that are not part of the chosen area of specialisation (consolidation modules). The range of elective modules is extendable.

³⁾ One of the elective modules can be chosen as an ungraded module. This ungraded module can be replaced by an internship of at least six weeks.

⁴⁾ The research colloquium includes various lectures on current research activities at the FAU Institute of Geography, lectures by external speakers, FGG lectures and a visit to the DVAG Practice Forum. By participating in the colloquium, students gain additional insights into selected examples from research and work areas of social and natural science beyond the preparation of their master's thesis. The participation is documented in a colloquium pass.