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

Module	Course	SWS				ECTS	Examination [1]	Factor grade
		L	E	P	S			
Elective Modules [2], [3]								
Advanced Methods A	Depending on module				**2**	**5**	Depending on module	**1**
Advanced Methods B	Depending on module				**2**	**5**	Depending on module	**1**
Advanced Methods C	Depending on module				**2**	**5**	Depending on module	**0**
Sum Elective Modules					**6**	**15**		
Consolidation Modules - Emphasis on Climate Research								
Advanced Methods: Advanced Climate Data Analysis	Advanced Climate Data Analysis				**2**	**5**	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**		**1**
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				**2**	**5**		**1**
Advanced Methods: Tree-Ring Analysis - Applied Dendroecology	Tree-Ring Analysis – Applied Dendroecology				**2**	**5**		**1**
Project Planning and Preparation	Project Planning and Preparation[4]				**2**	**5**	Vorbereitungsarbeiten für die Durchführung der Masterarbeit, Forschungsbericht (20-50 Seiten) und reflexive Diskussionsleistung (15-30 Min.) (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								
Advanced Methods: Microwave Remote Sensing	Microwave Remote Sensing				**2**	**5**	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**		**1**
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				**2**	**5**		**1**
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				**2**	**5**		**1**
Project Planning and Preparation	Project Planning and Preparation[4]				**2**	**5**	Vorbereitungsarbeiten für die Durchführung der Masterarbeit, Forschungsbericht (20-50 Seiten) und reflexive Diskussionsleistung (15-30 Min.) (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								
Advanced Methods: Soil Science	Soil Science				**2**	**5**	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**		**1**
Advanced Methods: Stable Isotope Analysis	Stable Isotope Analysis				**2**	**5**		**1**
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				**2**	**5**		**1**
Project Planning and Preparation	Project Planning and Preparation[4)]				**2**	**5**	Vorbereitungsarbeiten für die Durchführung der Masterarbeit, Forschungsbericht (20-50 Seiten) und reflexive Diskussionsleistung (15-30 Min.) (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.