# Master's degree in Geography

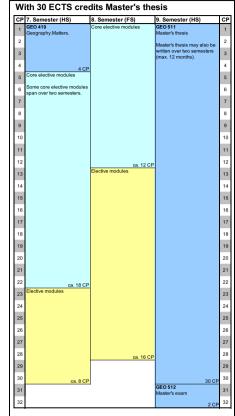


(6 CP)

(6 CP)

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#### Structure

To obtain a Master's degree with a 30 ECTS credits Master thesis, at least 30 ECTS credits have to be completed with core elective modules offered by the Department of Geography.

#### Emphasis

To obtain a Master's degree with a designated emphasis within the Master of Geography, a minimum of 18 ECTS credits in core elective modules and the Master's thesis have to be completed within the field of the emphasis.

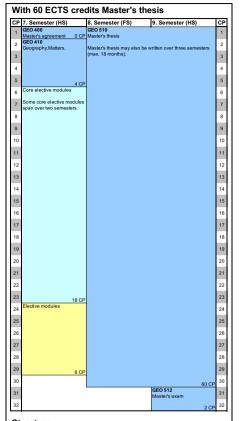
The following emphases are possible:

- Physical Geography \* - Human Geography - Remote Sensing - Geographic Information Science and Systems

\* In Physical Geography the 18 ECTS credits in core elective modules need to be completed out of at least two of the four units of Physical Geography (e.g. two modules out of 3G and one out of 2B, H2K or GCH or one module each out of three different units).

# Degree in General Geography

In addition to the emphases, it is possible to obtain a general Master's degree. For the degree in General Geography a minimum of 6 ECTS credits in core elective modules have to be chosen out of each of the three thematic subject areas Physical Geography, Human Geography, as well as Remote Sensing and Geographic Information Science.



Overview

HS:

FS:

CP:

Compulsory modules

Core elective modules

Elective modules

spring semester

fall semester

ECTS credits

# Structure

To obtain a Master's degree with a 60 ECTS credits Master thesis, a Master agreement (GEO 400) needs to be made with the supervisor of the Master's thesis during the first semester. At least 18 ECTS credits have to be completed with core elective modules offered by the Department of Geography.

#### Emphasis

The conditions for a designated emphasis within the Master of Geography are defined with the supervisor and recorded on the Master's agreement (GEO 400). No unit is obligued to offer the 60 ECTS credits Master's thesis. Whether the 60 ECTS credits Master's thesis can be written, has to be agreed upon with the supervisor.

#### Degree in General Geography

To obtain the degree in General Geography is only possible with a 30 ECTS credits Master's thesis.

# Core elective modules Emphasis on Human Geography Fall Semester (HS) GEO 421 Development Studies (6 CP) GEO 423 Political Geography (6 CP) GEO 423 Political Geography (6 CP) GEO 424 Environment in History (6 CP)

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GEO 722 Human Geography Field Course 1	(3 CP)		· · · /
	(0 0. )	CEO 422 Clabel Essentia Commercial	
GEO 723 Human Geography Field Course 2	(3 CP)	GEO 433 Global Economic Geographies of Agriculture and Food Systems	(6 CP)
	(0.00)	Agriculture and Food Systems	
GEO 724 Human Geography Field Course 3	(3 CP)	GEO 835 Geography of Sustainability	
GEO 837 Geographies of Environmental		Transitions	(3 CP)
Governance	(3 CP)	Transitions	
Governance		GEO 838 Self-organised Seminar	(3 CP)
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Emphasis on Physical Geography			
Fall Semester (HS)		Spring Semester (FS)	
GEO 463 Soil Science I: Current challenges in		GEO 411 Field studies on high mountain	
plant-soil systems (2B)	(6 CP)	processes (3G)	(6 CP)
GEO 475 Hydrological Modelling and	(6 CP)	ESS 842 Analyzing the plant-soil system:	(6 CP)
Programming (H2K)	(0 CF)	Practice (2B)	(0 CF)
GEO 815 Quantification and modelling of the	(3 CP)	GEO 471 Hydrological field measurements	(6 CP)
Cryosphere: dynamic processes (3G)	( )	and calculations (H2K)	· · · · /
GEO 851 Glacier Mass Balance		GEO 820 Stable isotopes in ecology and soil	
Measurements and Analysis – from local		science (2B)	(3 CP)
observations to global assessments (3G)	(3 CP)	Science (2D)	
observations to global assessments (50)		GEO 856 The high-mountain cryosphere:	
		processes and risks (3G)	(3 CP)
		GEO 857 Snow and Avalanches: Processes	
		and Risk Management (3G)	(3 CP)

GEO 425 Political Ecology

Over both semesters (HS & FS) GEO 417 Environmental archives and age determination (GCH)

### **Emphasis on GIScience and Systems**

Fall Semester (HS)		Spring Semester (FS)	
GEO 870 Spatial Statistics Not held in HS23	(3 CP)	GEO 454 Geovisualisation	(6 CP)
GEO 871 Retrieving Geographic Information	(3 CP)	GEO 876 Introduction to Programming for Spatial Problems	(3 CP)
GEO 872 Advanced Spatial Analysis I	(3 CP)	· · · · · · · · ·	
GEO 873 Cognitive Issues in GIScience	(3 CP)	GEO 877 Spatial Algorithms	(3 CP)
GEO 874 Introduction to Databases	(3 CP)	GEO 880 Computational Movement Analysis	(3 CP)
GEO 875 Spatial Databases	(3 CP)	GEO 881 Advanced Spatial Analysis II	(3 CP)
GEO 879 Mobility Issues in GIScience	(3 CP)	GEO 885 GIScience Project	(3 CP)
	/	GEO 888 GIS for Environmental Monitoring	(3 CP)

#### Emphasis on Remote Sensing

Fall Semester (HS)		Spring Semester (FS)	
GEO 442 Specialization in Remote Sensing:	(6 CP)	GEO 441 Remote Sensing A: Seminar	(6 CP)
Spectroscopy of the Earth System	(0 CF)		
GEO 443 Specialization in Remote Sensing: SAR and LIDAR	(6 CP)		