Master's degree in Geography

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With 30 ECTS credits Master's thesis

CP	7. Semester (HS)	8. Semester (FS)	9. Semester (HS)	CP
1	**GEO 410** Geography.Matters.	Core elective modules	**GEO 511** Master's thesis	1
2			Master's thesis may also be written over two semesters (max. 12 months).	2
3				3
4	4 CP			4
5	Core elective modules			5
6	Some core elective modules span over two semesters.			6
7				7
8				8
9				9
10				10
11				11
12		ca. 12 CP		12
13		Elective modules		13
14				14
15				15
16				16
17				17
18				18
19				19
20				20
21				21
22	ca. 18 CP			22
23	Elective modules			23
24				24
25				25
26				26
27				27
28		ca. 16 CP		28
29				29
30	ca. 8 CP		30 CP	30
31			**GEO 512** Master's exam	31
32			2 CP	32

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.

With 60 ECTS credits Master's thesis

CP	7. Semester (HS)	8. Semester (FS)	9. Semester (HS)	CP
1	**GEO 400** Master's agreement 0 CP	**GEO 510** Master's thesis		1
2	**GEO 410** Geography.Matters.	Master's thesis may also be written over three semesters (max. 18 months).		2
3				3
4	4 CP			4
5	Core elective modules			5
6	Some core elective modules span over two semesters.			6
7				7
8				8
9				9
10				10
11				11
12				12
13				13
14				14
15				15
16				16
17				17
18				18
19				19
20				20
21				21
22				22
23	18 CP			23
24	Elective modules			24
25				25
26				26
27				27
28				28
29	6 CP			29
30			60 CP	30
31			**GEO 512** Master's exam	31
32			2 CP	32

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.

Overview

- Compulsory modules
- Core elective modules
- Elective modules

HS: fall semester
FS: spring semester
CP: ECTS credits

Core elective modules

Emphasis on Human Geography

Fall Semester (HS)		Spring Semester (FS)	
GEO 421 Development Studies	(6 CP)	**GEO 422** Urban Geography: Research and Mehtods	(6 CP)
GEO 423 Political Geography	(6 CP)	**GEO 424** Environment in History	(6 CP)
GEO 432 Gender, Work and Space	(6 CP)	**GEO 425** Political Ecology	(6 CP)
GEO 722 Human Geography Field Course 1	(3 CP)	**GEO 433** Global Economic Geographies of Agriculture and Food Systems	(6 CP)
GEO 723 Human Geography Field Course 2	(3 CP)	**GEO 835** Geography of Sustainability Transitions	(3 CP)
GEO 724 Human Geography Field Course 3	(3 CP)	**GEO 838** Self-organised Seminar	(3 CP)
GEO 837 Geographies of Environmental Governance	(3 CP)		

Emphasis on Physical Geography

Fall Semester (HS)		Spring Semester (FS)	
GEO 463 Soil Science I: Current challenges in plant-soil systems (2B)	(6 CP)	**GEO 411** Field studies on high mountain processes (3G)	(6 CP)
GEO 475 Hydrological Modelling and Programming (H2K)	(6 CP)	**GEO 471** Hydrological field measurements and calculations (H2K)	(6 CP)
GEO 815 Quantification and modelling of the Cryosphere: dynamic processes (3G)	(3 CP)	**GEO 820** Stable isotopes in ecology and soil science (2B)	(3 CP)
GEO 851 Glacier Mass Balance Measurements and Analysis – from local observations to global assessments (3G)	(3 CP)	**GEO 856** The high-mountain cryosphere: processes and risks (3G)	(3 CP)
ESS 841 Analyzing the plant-soil system: Theory (2B)	(3 CP)	**GEO 857** Snow and Avalanches: Processes and Risk Management (3G)	(3 CP)
		ESS 842 Analyzing the plant-soil system: Practice (2B)	(6 CP)

Over both semesters (HS & FS)

GEO 417 Environmental archives and age determination (GCH) (6 CP)

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 877** Spatial Algorithms	(3 CP)
GEO 873 Cognitive Issues in GIScience	(3 CP)	**GEO 880** Computational Movement Analysis	(3 CP)
GEO 874 Introduction to Databases	(3 CP)	**GEO 881** Advanced Spatial Analysis II	(3 CP)
GEO 875 Spatial Databases	(3 CP)	**GEO 885** GIScience Project	(3 CP)
GEO 879 Mobility Issues in GIScience	(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: Spectroscopy of the Earth System	(6 CP)	**GEO 441** Remote Sensing A: Seminar	(6 CP)
GEO 443 Specialization in Remote Sensing: SAR and LIDAR	(6 CP)		