

Module Overview Master Geosciences

Module Titel	language	Credit Points	Focus Area	Semester	Course work	Assesment Type
Hydrogeologie/ Wasserwirtschaft	german	7	S/W and AGG	WiSe+SoSe		HA o.MP o. K
Prozesse der Bodendegradation	german	6	S/W	WiSe	1	VbP (P)
Geographische Informationssysteme B (GIS B)	german	8	S/W and SST	WiSe+SoSe		K (60) oder VbP50%
Interface Processes in Soils	english	6	S/W and M/G	WiSe	1	HA o. MP o. K o. VbP
Soils as Part of Ecosystems	english	8	S/W	WiSe+SoSe	1	MP oder K 70% + HA 30%
Bodenschutz und Bodennutzung	german	6	S/W	WiSe+SoSe	1	HA oder MP oder K
Environmental mineralogy	english	8	S/W and M/G	WiSe	2	HA (50%) + VbP (50%)
Chemically Polluted Soils	english	6	S/W	WiSe	1	K oder MP(67%) + HA(33%)
Principles of Peat Science	english	6	S/W	WiSe+SoSe	1	K oder MP(50%)+ VbP(50%)
Numerical Modelling	english	6	S/W	WiSe+SoSe	2	HA oder MP oder K
Definition und Regionalisierung von Bodeneinheiten	german	6	S/W	WiSe+SoSe	2	K oder MP(70%)+ HA(30%)
Digital Soil Mapping	english	5	S/W	WiSe+SoSe	1	VbP oder HA
Tektonische Geomorphologie und Neotektonik	german	7	SST	WiSe+SoSe	1	K
Modellierung geologischer Prozesse	german	8	SST	SoSe	1	K
Quartärgeologie	german	9	SST and AGG	SoSe		K 50% und HA 50%
Sedimentary Archives and Paleoenvironment Reconstruction	english	7	SST	WiSe	1	K und VbP
Geologie der Kontinentränder und Sedimentbecken: Dynamik und Geopotenziale	german	7	SST and M/G	WiSe	1	K (80%) + HA (20%)
Approximation und Prädiktion raumbezogener Daten	german	5	SST and M/G	SoSe	1	MP
Isotope geochemistry and mass spectrometry	english	9	SST and M/G	WiSe	1	HA oder MP oder K
Geodynamics of mid-ocean ridge systems	english	6	SST and M/G	SoSe		VbP
Modellierung geologischer Prozesse	german	8	AGG	SoSe	1	K
Ingenieurgeologie	german	6	AGG	SoSe		HA oder MP oder K
Geophysik I	german	5	AGG	WS		MP
Geophysik II mit Praktikum	german	7	AGG	SoSe		MP (70%) + HA (30%)
Mineral resources	english	8	AGG and M/G	SoSe	1	HA oder MP oder K
Experimental geochemistry	english	7	M/G	WS	1	HA oder MP oder K
Technical Mineralogy	english	5	M/G	SoSe		VbP (60%) + K (40%)
Crystal physics and spectroscopic analysis of minerals	english	5	M/G	WS		VbP (80%) + K (20%)
High resolution analytical methods	english	6	M/G	SoSe	1	VbP (PR)
Grundlage der Werkstofftechnik für Geowissenschaften	german	6	M/G	SoSe	1	HA oder MP oder K
Analytical methods of isotope geochemistry	english	6	M/G	SoSe	2	HA oder MP oder K
Major Field Trip	eng/ger	5	all areas	WiSe+SoSe	1	
Project: Mapping in Geoscience	eng/ger	7	all areas	WiSe+SoSe		ST
Project: Independent Analytical Work	eng/ger	7	all areas	WiSe+SoSe		ST
Project: Independent Project with Field Work	eng/ger	7	all areas	WiSe+SoSe		ST
Project: Writing a Scientific Paper (Focus Soil/Water)	eng/ger	7	all areas	WiSe+SoSe		ST
Seminar zum Wissenschaftlichen Arbeiten (compulsory)	eng/ger	5	all areas	WiSe+SoSe	1	VbP
Master Thesis (compulsory)	eng/ger	30	all areas	WiSe+SoSe		MA
General Studies: e.g. Language Courses from LLC, Modules from other degree programs of the Faculty of Natural Sciences and Civil Engineering and Geodesy.	eng/ger	max.20		WiSe+SoSe		
Focus Areas: Soil/Water (S/W), Applied Geology and Geophysics (AGG), Sedimentary Systems and Tectonics (SST), Mineralogy/Geochemistry (M/G)						
LLC = Leibniz Language Center						
LEGEND:						
WiSe = winter semester		K = written exam		VbP = Course-accompanying examination		
SoSe = summer semester		MP= oral exam		ST= Independent assignment		
		HA = term paper		MA = Master thesis		

coordination office: Nadja Pierau (pierau@nat.uni-hannover.de)

[make an appointment](#)