

Musterstudienplan

Schwerpunkt Georesources and the Environment bei Beginn im **Wintersemester**

Module/ Veranstaltung		AB	LP	PA
1. Semester				
PM 29: Personal Profiling		180	6	KI* (90 Min)/ mP* (30 Min)/ H* (20 – 30 S)/ R* (20 – 30 Min, 5 – 10 S),
KM 7: Georesources and Sustainability		240	8	Pf (Be: 1 FS, 1 P (total 30 – 40 S))
Georesources and Sustainability	3 V			
Georesources and Sustainability	3 Ü			
KM 5: Mineral Deposits and Applications		240	8	Pf (Be: 2 FS (30 – 40 S), 3 Ü)
Hydrocarbons and Metal Deposits	3 V/Ü			
Industrial Minerals and Cements	3 V/Ü			
KM 6: Clay Minerals and the Environment		240	8	Pf (Be: 5 FS, 5 H, 1 P (total 30 -40 S))
Clay Mineralogy	2 V			
Topics in Clay Science	2 V			
Advanced Clay Mineralogical Techniques	2 Ü			
2. Semester				
KM 16: Environmental Hydrogeology		240	8	Pf (1 FS, 1 Sv (15 – 20 Min, 4 - 6 Ü*), T*
Environmental Hydrogeology	1 V			
Theory of Groundwaterflow Modeling	1 V			
Groundwaterflow Modeling	4 Ü			
KM 17: Geomaterials, Geoenergy and Georisk		240	8	KI (90 Min), 1 Ü*
Geomaterials	2 V			
Geoenergy and Georisk	2 V			
Georesources	2 Ü			
EM 22: Well Log Interpretation in Applied Geology		240	8	9 – 11 Ü, T*
Well Logging	4 V/Ü			9 – 11 Ü
Pumping Test	2 V/Ü			T*
KM 15: Aquatic Environmental Geochemistry		240	8	Pf (2 R (15 – 20 Min), 1 Be (10 – 15 S), 4 – 6 Ü*)
Water-Rock-Interactions	1 S			
Isotopes in Aquatic Systems	1 V			
Aquatic Geochemistry	1 Ü			
Water-Rock-Interactions	2 E			
3. Semester				
KM 2: (Paleo) Oceanography		240	8	mP (30 Min), 2 Sv* (15 – 20 Min)
Chemical Oceanography	1 V			

Proxy Formation and Application	1 V			
Oceanography and Society	1 S			
Paleoceanography	2 V			
Paleoceanography	1 Ü			
KM 1: Tectonics & Sedimentary Basins		240	8	KI (60 Min), mP (30 Min)
Ocean Floor Dynamics and Regional Tectonics	2 V			KI (60 Min)
Methods in Structural Geology and Tectonics	1 Ü			
Sedimentary Basins	2 V			mP (30 Min)
Sequence Stratigraphy	1 Ü			
KM 4: Advanced Data Analysis in Earth Sciences		240	8	Pf (1 FS, 1 SV (15 – 20 Min, 4 - 6 Ü*), T*
Advanced Geostatistics and Uncertainty Analysis	3 V/Ü			
Multivariate Data Analysis In Earth Sciences	3 V/Ü			
PM 30 Literature Discussion and Thesis Proposal		120	4	Sv* (15 – 20 Min),
4. Semester		120	4	
Master Thesis		900	30	

Schwerpunkt Georesources and the Environment bei Beginn im **Sommersemester**

Module/ Veranstaltung		AB	LP	PA
1. Semester				
PM 29: Personal Profiling		180	6	KI* (90 Min)/ mP* (30 Min)/ H* (20 – 30 S)/ R* (20 – 30 Min, 5 – 10 S),
KM 17: Geomaterials, Geoenergy and Georisk		240	8	KI (90 Min), 1 Ü*
Geomaterials	2 V			
Geoenergy and Georisk	2 V			
Georesources	2 Ü			
KM 15: Aquatic Environmental Geochemistry		240	8	Pf (2 R (15 – 20 Min), 1 Be (10 – 15 S), 4 – 6 Ü*)
Water-Rock-Interactions	1 S			
Isotopes in Aquatic Systems	1 V			
Aquatic Geochemistry	1 Ü			
Water-Rock-Interactions	2 E			
KM 18: Climate Change		180	6	Pf (4 P, 1 Sv (5 Min))
Climate Change	2 V			
Journal Club Climate Change	2 S			
2. Semester				
KM 7: Georesources and Sustainability		240	8	Pf (Be: 1 FS, 1 P (total 30 – 40 S))
Georesources and Sustainability	3 V			
Georesources and Sustainability	3 Ü			
KM 5: Mineral Deposits and Applications		240	8	Pf (Be: 2 FS (30 – 40 S), 3 Ü)
Hydrocarbons and Metal Deposits	3 V/Ü			
Industrial Minerals and Cements	3 V/Ü			
KM 6: Clay Minerals and the Environment		240	8	Pf (Be: 5 FS, 5 H, 1 P (total 30 -40 S))
Clay Mineralogy	2 V			
Topics in Clay Science	2 V			
Advanced Clay Mineralogical Techniques	2 Ü			
KM 4: Advanced Data Analysis in Earth Sciences		240	8	Pf (1 FS, 1 SV (15 – 20 Min, 4 - 6 Ü*), T*
Advanced Geostatistics and Uncertainty Analysis	3 V/Ü			
Multivariate Data Analysis In Earth Sciences	3 V/Ü			
3. Semester				
KM 16: Environmental Hydrogeology		240	8	Pf (1 FS, 1 Sv (15 – 20 Min, 4 - 6 Ü*), T*
Environmental Hydrogeology	1 V			
Theory of Groundwaterflow Modeling	1 V			
Groundwaterflow Modeling	4 Ü			

EM 22: Well-Log Interpretation in Applied Geology		240	8	9 – 11 Ü, T*
Well Logging	4 V/Ü			
Pumping Test (T*)	2 V/Ü			
KM 13: Depositional Environments and Quaternary Geology		240	8	mP (30 Min), 1 P (80%/20%)#
Sedimentary Depositional Environments	2 V			
Sedimentary facies and Architecture (z.Z. Bornholm)	2 E			
Glacial and Periglacial Land Systems	2 Ü			
PM 30 Literature Discussion and Thesis Proposal		120	4	Sv* (15 – 20 Min),
4. Semester		120	4	
Master Thesis		900	30	