

Specialisation: Mine Surveying				
1. Semester (Freiberg)	2. Semester (Freiberg)	3. Semester (Leoben)		4. Semester (Leoben)
Applied Remote Sensing in Geosciences 6 CP	Geomatics for Resource and Reserve Management 6 CP	Mines Surveying Project Study 4.5 CP	Automatic Surface Inspection 3 CP	MSc Thesis 30 CP
Geomonitoring 5 CP	Applied Spatial Data Analysis and Modelling (Case Study) 5 CP	Spatial Planning 1.25 CP	Environmental AspCP of Mineral Extraction 3 CP	
Underground Mine Surveying 5 CP	Mine Mapping, CAD and Geodatabases 5 CP	Geotechnical Monitoring and Instrumentation 1.5 CP	Computer Applications in Mining 2.5 CP	
Photogrammetric Surveying (every second year) 4 CP	Geodetic Adjustment Theory 5 CP	Mining Subsidence Engineering 3 CP	Instrumentation, Monitoring, Data Evaluation and Interpretation 6.75 CP	
Umweltingenieurgeologie* 8 CP		Surpac Introduction 2 CP	Risk Management in Mines 3 CP	
Applied Soil- and Hard Rock Mechanics 6 CP	Reclamation 6 CP	Untertagebergbau* 4.5 CP	Machine Vision 3 CP	
		Precalculation of Ground Movements 1.5 CP	Measurements of 3D-Objects 2 CP	
Project Management 3 CP	Bodenordnung* (every second year) 4 CP	Compulsary Internship 5 CP	Measurement Data Processing 3 CP	
			Geoinformatics 2.5 CP	
		Free elective courses - 6 CP		

CP = Credit Points

\* = these courses are only offered in German

Core courses
Path specific courses
Pre-defined elective courses Freiberg (3 CP total)
Pre-defined elective courses Leoben (2.75 CP total)
Free elective courses (6 CP total)