

Earth Sciences (Major and Minor)
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Class Name	Prerequisites	Credits (EC/TS)	Contact Hours	Status	Name of Lecturer(s)	Fall Semester	Spring Semester
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General module - 60 credits	
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Introduction to Contemporary Thought I		6	31	Mand.			
Introduction to Contemporary Thought II		6	31	Mand.			
Georgian for Academic Purposes: Academic Skills and Writing Practice		6	38	Mand.			
English Language Course		6	64	Mand.			
English Language Course		6	64	Mand.			
English Language Course		6	64	Mand.			
English Language Course		6	64	Mand.			
Introductory course - Life Sciences concentration with code INTROLF		6		Mand.			
Introductory course - Physics concentration with code INTROENGPYS		6		Mand.			
Introductory course - Earth Sciences concentration with code INTROENGESC		6		Mand.			

Main field of study - 120 credits	
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Mandatory Courses - 96 credits (with code - ESCESCGEN/0/0)
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Calculus I		6	56	Mand.	Elashvili Mikheil		X
Earth - Introduction to Geology - I		6	66	Mand.	Magalshvili Archil, Godoladze Tea, Elashvili Mikheil, Javakhishvili Zurab, Okrostvaridze Avtandil		X
Physics for Earth Sciences	Calculus I	6	48	Mand.	Javakhishvili Zurab	X	
Earth - Introduction to Geology - II	Earth - Introduction to Geology - I	6	48	Mand.	Magalshvili Archil, Sukhishvili Lasha, Elashvili Mikheil, Javakhishvili Zurab, Okrostvaridze Avtandil	X	
Principles of Chemistry		6	38	Mand.	Kupatadze Ketevan		X
Fundamentals of Geo-Information Systems and Remote Sensing		6	32	Mand.	Otinashvili Maia	X	
Mineralogy and Fundamentals of Geochemistry	Earth - Introduction to Geology - II, Principles of Chemistry	6	36	Mand.	Gogoladze Salome		X
Fundamentals of Geophysics	Earth - Introduction to Geology - II; Physics for Earth Sciences	3	33	Mand.	Javakhishvili Zurab		X
Climatology and Meteorology	Physics for Earth Sciences; Earth - Introduction to Geology - II	3	33	Mand.	Megrelidze Lia		X
Rocks of Earth Crust	Earth - Introduction to Geology - II	6	54	Mand.	Okrostvaridze Avtandil	X	
Fundamentals of Geomorphology and Hydrology	Earth - Introduction to Geology - II; Calculus I	6	48	Mand.	Janelidze Zurab, Sukhishvili Lasha	X	
Fundamentals of Stratigraphy and Geochronology	Earth - Introduction to Geology - II	3	28	Mand.	Kakabadze Irakli	X	
Structural Geology	Earth - Introduction to Geology - II; Physics for Earth Sciences	3	35	Mand.	Boichenko Giorgi	X	
Tectonics and Seismology	Structural Geology	6	43	Mand.	Godoladze Tea		X

Fundamentals of Geology of Mineral Deposits	Mineralogy and Fundamentals of Geochemistry; Rocks of Earth Crust	6	47	Mand.	Magalshvili Archil		X
Fundamentals of Hydrogeology and Engineering Geology	Rocks of Earth Crust; Physics for Earth Sciences	6	34	Mand.	Magalshvili Archil		X
Environmental Studies	Fundamentals of Hydrogeology and Engineering Geology; Principles of Chemistry	6	53	Mand.	Machitadze Nino		X
Bachelor thesis	Georgian for Academic Purposes: Academic Skills and Writing Practice; Fundamentals of Geo-Information Systems and Remote Sensing; Fundamentals of Hydrogeology and Engineering Geology; Fundamentals of Geology of Mineral Deposits	6		Mand.			X
<b>Technological block (at least 12 credits with code - 0/ESCESC/0)</b>							
Computer methods of Spatial Analysis	Fundamentals of Geo-Information Systems and Remote Sensing	6	32	Elec.	Sukhishvili Lasha		
Programming in Python	English Language Course (A2-2)	3	32	Elec.	Gunia Irakli		
Mathematical Methods in Data Processing for Earth Sciences	Calculus I; Earth - Introduction to Geology - II	3	32	Elec.	Jorjiashvili Nato		
Practical Course - Software Packages for the Tasks in Earth Sciences	Earth - Introduction to Geology - II	3	32	Elec.	Jorjiashvili Nato		
Modern Methods of Substance Research	Earth - Introduction to Geology - II; Principles of Chemistry; Physics for Earth Sciences	3	32	Elec.	Magalshvili Archil		
Calculus II	Calculus I	6	56	Elec.	Elashvili Mikheil		

Elective Courses (with code - 0/0/ESCESC)							
Fundamentals of Exploration and Applied Geophysics	Earth - Introduction to Geology - II	6	32	Elec.	Akubardia Dimitri		
Practical Course in Seismological Observation	Tectonics and Seismology	3	26	Elec.	Godoladze Tea		
Plate Tectonics	Tectonics and Seismology	3	32	Elec.	Godoladze Tea		
Earth Atmosphere	Earth - Introduction to Geology - I	3	32	Elec.	Shengelia Ia		
Minor/free component (60 credits)							