

**Natural Sciences on BSc level**
Study Abroad Course List**Tuition fee: 2600-2900 USD***For course syllabi, please contact the Study Abroad Office!*

Program name	Course title	Semester	Credits (ECTS)
Chemistry BSc	General and Inorganic Chemistry I. lecture	Fall	5
	General and Inorganic Chemistry I. seminar	Fall	3
	General and Inorganic Chemistry I. laboratory	Fall	5
	Organic Chemistry I. lecture	Fall	5
	Organic Chemistry II. laboratory	Fall	5
Computer Science BSc	Elementary Linear Algebra	Fall	4
	Calculus I/ Analysis I	Fall	5
	Probability and Statistics	Fall	4
	Mathematical Logics	Fall	3
	Numerical Methods II.	Fall	2
	Operations Research	Fall	3
	Discrete mathematics I.	Fall	5
	Basics of Computer Science	Fall	5
	Elementary Programming	Fall	4
	Programming I.	Fall	5
	Compilers and Assemblers	Fall	2
	Formal Languages and Automata	Fall	5
	Distributed Systems, Parallel Programming	Fall	4
	Relational Databases	Fall	5
	System Engineering	Fall	5
Computer Architectures	Fall	2	
Physics BSc	Mechanics (lecture)	Fall	2
	Mechanics (practice)	Fall	2
	Computer Technology I.	Fall	2
	Metrology (lecture)	Fall	2
	Metrology (practice)	Fall	1
	Electricity and Magnetism (lecture)	Fall	2
	Electricity and Magnetism (seminar)	Fall	2
	Quantum Mechanics (lecture)	Fall	2
	Quantum Mechanics (practice)	Fall	2



Earth Sciences BSc	Mathematics Basics (practice)	Fall	2
	Introduction to Office-related applications	Fall	3
	Introduction to Geology lecture	Fall	3
	Introduction to Geology practice	Fall	2
	Chemistry Basics I. (lecture)	Fall	2
	Physics Basics I. (lecture)	Fall	2
	Biology Basics (lecture)	Fall	2
	Meteorology (lecture)	Fall	3
	Introduction to Astronomy (lecture)	Fall	2
	Introduction to Pedology	Fall	4
	Introduction to GIS I.	Fall	4
	Introduction to Hydrology and Hydrogeology (practice)	Fall	4
	Introduction to Hydrology and Hydrogeology (lecture)	Fall	3
	Field Work I.	Fall	5
Geography BSc	Introduction to Geography	Fall	4
	Introduction to Office-related applications	Fall	3
	Road to Geography	Fall	1
	Geomathematics and Geostatistics	Fall	4
	Social Studies for Geographers	Fall	6
	Introduction to Astronomy	Fall	2
	Introduction to Geology	Fall	3
	Introduction to Geology	Fall	2
	Introduction to GIS I.	Fall	4
	Introduction to Scientific Work	Fall	3
	Introduction to Pedology	Fall	4
	Biogeography	Fall	3
	Introduction to Human Geography	Fall	2
	Urban Geography	Fall	6
	Economic Geography	Fall	6
	Physical Geography of Europe	Fall	6
Human Geography of Europe	Fall	6	



Chemistry BSc SPRING	General and Inorganic Chemistry II. lecture	Spring	5
	General and Inorganic Chemistry II. seminar	Spring	3
	General and Inorganic Chemistry II. laboratory	Spring	6
	Organic Chemistry I. laboratory	Spring	5
	Organic Chemistry II. lecture	Spring	5
	Calculus II/ Analysis II.	Spring	5
Computer Science BSc SPRING	Numerical Methods I.	Spring	5
	Discrete Mathematics II.	Spring	5
	Programming II.	Spring	5
	Algorithms, Data Structures	Spring	5
	Methodology of Programming I.	Spring	5
	Professional Communication	Spring	3
	Operating Systems	Spring	5
	Computer Networks	Spring	5
	Information and Data Security	Spring	3
	Operation of IT Systems	Spring	3
	Control Technology	Spring	5
Earth Sciences BSc SPRING	Chemistry Basics II. (lecture)	Spring	2
	Chemistry Basics (practice)	Spring	2
	Physics Basics II. (lecture)	Spring	2
	Physics Basics (practice)	Spring	2
	Geomorphology	Spring	4
	Historical Geology and Paleontology (lecture)	Spring	3
	Remote Sensing (lecture)	Spring	3
	Climatology	Spring	3
	Mathematical Methods in Earth Sciences	Spring	5
	Introduction to GIS II. (practice)	Spring	4
	Field Measurements, Documentation, Geological Mapping (practice)	Spring	3
	Analytical Techniques in Geology (practice)	Spring	3
	Introduction to Hydrometeorology (practice)	Spring	3
Physical Geography of Hungary (practice)	Spring	3	
Geography BSc	Introduction to Physics	Spring	2
	Meteorology and Climatology	Spring	4
	Astronomical Geography and Cartography	Spring	3
	Introduction to GIS II.	Spring	4



SPRING	Geomorphology	Spring	4
	Historical Geology and Paleontology	Spring	3
	Hydrogeography	Spring	4
	Population, Place and Identity	Spring	6
	Physical Geography of the Carpathian Basin	Spring	6
	Human Geography of Hungary	Spring	6
	Field Trip	Spring	3
Physics BSc SPRING	Introductory Thermodynamics (lecture)	Spring	2
	Introductory Thermodynamics (practice)	Spring	3
	Electrodynamics (lecture)	Spring	2
	Electrodynamics (practice)	Spring	2
	Waves and Optics (lecture)	Spring	2
	Waves and Optics (practice)	Spring	2
	LabView Basics (practice)	Spring	3
	Physics Laboratory II. (practice)	Spring	4