**UNIVERSITY OF PÉCS**
Rector's Cabinet
International Centre

# Natural Sciences on BSc level

Study Abroad Course List

**Tuition fee/credit:** 100 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 |

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| **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 |
| **Mathematics BSc** | Analysis in Several Variables sem. | Fall | 2 |
| | Abstract Algebra | Fall | 2 |
| | Abstract Algebra sem. | Fall | 2 |
| | Geometry 2 | Fall | 2 |
| | Geometry 2 sem. | Fall | 2 |

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| **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 SPRING** | Introduction to Physics | Spring | 2 |
| | Meteorology and Climatology | Spring | 4 |
| | Astronomical Geography and Cartography | Spring | 3 |
| | Introduction to GIS II. | Spring | 4 |
| | Geomorphology | Spring | 4 |

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| | 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 |
| **Mathematics BSc SPRING** | Probability Theory ans Statistics | Spring | 3 |
| | Probability Theory ans Statistics sem. | Spring | 3 |
| | Complex functions | Spring | 2 |
| | Complex functions sem. | Spring | 2 |
| | Linear Algebra | Spring | 3 |
| | Linear Algebra sem. | Spring | 2 |
| | Differential Equations | Spring | 3 |
| | Differential Equations sem. | Spring | 2 |
| **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 |