two of the constrained elective courses above (6 ec each, except indicated otherwise) must be followed during each period except for period 1 and 3 (only one course)
## Geology and Geochemistry

**Year 1**

### Period 1
- **Regional Geology and Petroleum Systems** (3 ec AM_450179)
- **Mantle Properties** (6 ec AM_1211)

### Period 2
- **Orogenesis** (6 ec AM_450150)
- **Sedimentary Basins** (6 ec AM_450154)

### Period 3
- **Tectonic Geomorphology** (6 ec AM_450146)
- **Multidisciplinary Uncertainty AM** (6 ec AM_1249)

### Period 4
- **Magmatic Processes** (6 ec AM_450189)
- **Metamorphic Geology** (6 ec AM_450176)
- **Reflection Seismic for Geologists** (6 ec AM_450170)
- **Petrophysics and Reservoir Engineering** (6 ec AM_2212)

### Period 5
- **Capita Selecta Geology and Geochemistry** (6 ec AM_1174)
- **Advanced Geodynamics and Tectonics** (6 ec AM_1173)

### Period 6
- **Research Project G&G** (24 ec AM_1267)

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**Year 2**

### Period 1
- **Regional Geology and Petroleum Systems** (3 ec AM_450179)
- **Mantle Properties** (6 ec AM_1211)

### Period 2
- **Orogenesis** (6 ec AM_450150)
- **Sedimentary Basins** (6 ec AM_450154)

### Period 3
- **Tectonic Geomorphology** (6 ec AM_450146)
- **Multidisciplinary Uncertainty AM** (6 ec AM_1249)

### Period 4
- **Magmatic Processes** (6 ec AM_450189)
- **Metamorphic Geology** (6 ec AM_450176)
- **Reflection Seismic for Geologists** (6 ec AM_450170)
- **Petrophysics and Reservoir Engineering** (6 ec AM_2212)

### Period 5
- **Capita Selecta Geology and Geochemistry** (6 ec AM_1174)
- **Advanced Geodynamics and Tectonics** (6 ec AM_1173)

### Period 6
- **Research Project G&G** (24 ec AM_1267)
- **Master Thesis Geology and Geochemistry** (27 ec AM_1186)
**Global Environmental Change and Policy**

**Year 1**
- **Period 1:**
  - Climate Impacts & Policy (1-3)
    - 6 ec AM_1240

- **Period 2:**
  - Sustainable Energy Systems (1)
    - 6 ec AM_468018
  - Human Socio-Ecological Systems (2)
    - 6 ec AM_450014

- **Period 3:**
  - Advanced Spatial Analyses (1-3)
    - 6 ec AM_1197
  - Geothermal Energy (1)
    - 6 ec AM_468040
  - Climate Hydrological Processes (3)
    - 6 ec AM_1196
  - Water Quality (3)
    - 6 ec AM_1166

- **Period 4:**
  - Governance of Ecosystem Services (2)
    - 6 ec AM_468025
  - Energy and Climate Governance (1)
    - 6 ec AM_1155
  - Water Politics and Governance (3)
    - 6 ec AM_1192

- **Period 5:**
  - Master Thesis GEC&P**
    - 1-3
    - 15 ec AM_1266

- **Period 6:**
  - Geothermal Energy (1)
    - 6 ec AM_450409
  - Man and Climate***
    - 1-3
    - 6 ec AM_1057
  - Imaging and Assessing Landscapes***
    - 1-3
    - 6 ec AM_1193
  - Environmental Economics***
    - 1-3
    - 6 ec E_STR_EEC

**Year 2**
- **Period 1:**
  - Climate Systems* (1-3)
    - 6 ec AM_1124
  - Challenges and Solutions (1-3)
    - 6 ec AM_1234
  - Economics of Environmental Policy (1-3)
    - 6 ec E_STR_EEC

- **Period 2:**
  - Environmental Economics for GEC&P (1-3)
    - 6 ec AM_1232
  - And Use Change and Ecosystems (1-3)
    - 6 ec AM_1235
  - Methods of Environment and Resource Management (1-3)
    - 6 ec AM_1155

**Science Communication**

- **Period 1:**
  - Research Methods for Analyzing Problems
    - 6 ec AM_1182
  - Science and Communication
    - 6 ec AM_470587

- **Period 2:**
  - Communication, Org. and Management
    - 6 ec AM_470572
  - Science Museology
    - 6 ec AM_470590
  - Science Journalism
    - 6 ec AM_471014

- **Period 3:**
  - Science in Dialogue
    - 6 ec AM_1102

- **Period 4:**
  - Research Internship Science Comm.
    - 30 ec AM_1162

**Part of the (predominantly first years) courses make also part of the Education and Communication specialization**

* the numbers in brackets refer to the different streams:
  - Stream GEC&P 1: Energy
  - Stream GEC&P 2: Ecosystems Services
  - Stream GEC&P 3: Water

** the thesis should be written in a research proposal, scientific article or policy paper format, depending on the student's career perspective.

*** choose one (6 ec), only for students with a thesis WITHOUT fieldwork or labwork (masters thesis of 24 ec)

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