### Year Schedule Master Earth Sciences 2018-2019

*Earth and Climate*

#### Year 1

<table>
<thead>
<tr>
<th>Period 1</th>
<th>Period 2</th>
<th>Period 3</th>
<th>Period 4</th>
<th>Period 5</th>
<th>Period 6</th>
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</table>
| **Climate Systems** (1-4)  
(6 ec) AM_1124 | **Marine Geology and Palaeoclimatology** (1, 2)  
(6 ec) AM_450330 | **Climate Modelling** (1, 2)  
(6 ec) AM_450004 | **Climate Dynamics and Processes** (1)  
(6 ec) AM_1230 | **Research Project Earth & Climate** (1-5)  
(27 ec) AM_1227 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Landscape Dynamics** (1-5)  
(6 ec) AM_450331 | **Advanced Spatial Analyses** (1-4)  
(6 ec) AM_1197 | **Orogenesis** (5)  
(6 ec) AM_450190 | **Global Biogeochemical Cycles** (2)  
(6 ec) AM_450332 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Regional Geology and Petroleum Systems** (5)  
(3 ec) AM_450179 | **Tectonic Geomorphology** (3, 5)  
(6 ec) AM_450146 | **Environmental Remote Sensing** (3, 4)  
(6 ec) AM_450145 | **Practical: Palaeoclimatic Change** (2, 3, 5)  
(6 ec) AM_1164 | **Imaging and Assessing Landscapes** (4)  
(6 ec) AM_1183 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Sedimentary Basins** (5)  
(6 ec) AM_450154 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |

Two of the courses above (6 ec each, except indicated otherwise) must be followed during each period except for period 3 (only one course).

#### Year 2

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<th>Period 1</th>
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<th>Period 3</th>
<th>Period 4</th>
<th>Period 5</th>
<th>Period 6</th>
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</thead>
</table>
| **Research Project Earth & Climate continued** (1-5)  
(27 ec) AM_1227 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Catchment Response Analysis**  
(6 ec) AM_450003 | **Science Journalism**  
(6 ec) AM_471014 | **Thesis Project Earth & Climate** (1-5)  
(27 ec) AM_1228 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Ecology**  
(6 ec) AM_450014 | **Biological Oceanography**  
(6 ec) AM_1166 | **Thesis Project Earth & Climate** (1-5)  
(27 ec) AM_1228 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Science and Communication**  
(6 ec) AM_450014 | **Climate Hydrological Processes**  
(6 ec) AM_1196 | **Geothermal Energy**  
(6 ec) AM_450409 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Sustainable Energy Analysis**  
(6 ec) AM_450014 | **Geothermal Energy**  
(6 ec) AM_450409 | | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **3D Seismic Interpretation and Geology**  
(6 ec) AM_450014 | **Geothermal Energy**  
(6 ec) AM_450409 | | | | |
| **Mantle Properties**  
(6 ec) AM_1121 | **Course**  
**Project**  
**Elective**  
**Elective (6 ec)**  
**Exams**  
**Holidays** |
| **Challenges and Solutions GEC&P**  
(6 ec) AM_1134 | | | | | |

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 E&C 1: Climate dynamics and Earth System Modeling
Stream E&C 2: Paleoceanography and Biogeochemical Cycles
Stream E&C 3: Earth surface dynamics
Stream E&C 4: Remote Sensing and Spatial Analysis
Stream G&G and E&C 5: Sedimentology and Stratigraphy (together with G&G)
**: the thesis should be written in a research proposal, scientific article or policy paper format, depending on the student’s career perspective.
The numbers in brackets refer to the different streams:
Stream GEC&P 1: Energy
Stream GEC&P 2: Ecosystem 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.