

Master of Geosciences / Geology

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| Mandatory Modules |  |
| Core Modules Geology |  |
| Specialisation Modules |  |
| Elective Modules |  |

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| Y1 | GEW-MC01 Sedimentary Earth System Record (6) | GEW-MC02 Tectonics and Geodynamics (6) | GEW-MC03 Data Analysis and Statistics (6) | GEW-MF01 Earth Surface Dynamics (6) Earth Surface Processes | GEW-MF03 Numerical Analysis and Modelling (6) Remote Sensing of the Environment |
| | GEW-MM01 Topics in Earth System Science (6) | GEW-MC04 Advanced Field Practical (6) | GEW-ME06 Special remote methods in Geosciences (6) Analysis of Digital Elevation Models | GEW-MF01 Earth Surface Dynamics (6) Active Tectonics | GEW-MF03 Numerical Analysis and Modelling (6) Modelling Tectonic and Surface Processes |
| Y2 | GEW-MM02 Project Practical or Research Internship (12) | | GEW-MF04 Specialization Module-Theory and Applications (6) Rates and Dates of Geological Processes | GEW-MF04 Specialization Module-Theory and Applications (6) Thematic Field School | GEW-ME08 Monitoring techniques and data analysis in Geosciences (6) Environmental Monitoring |
| | Master Project and Thesis (30) | | | | |

Possible study schedule for students with an interest in *Earth Surface Dynamics*

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| Y1 | GEW-MC01 Sedimentary Earth System Record (6) | GEW-MC02 Tectonics and Geodynamics (6) | GEW-MC03 Data Analysis and Statistics (6) | GEW-MF03 Numerical Analysis and Modelling (6) Remote Sensing of the Environment | GEW-MF04 Specialization Module-Theory and Applications (6) Geo-Information Systems |
| | GEW-MM01 Topics in Earth System Science (6) | GEW-MC04 Advanced Field Practical (6) | GEW-ME04 Modern trends in Geosciences (6) Introduction to Biogeochemistry | GEW-MF03 Numerical Analysis and Modelling (6) Data Analysis in Earth and Environmental Sciences | GEW-MF04 Specialization Module-Theory and Applications (6) Thematic Field School |
| Y2 | GEW-MM02 Project Practical or Research Internship (12) | | GEW-ME03 Past and present of the Earth System (6) Paleoclimate Dynamics | GEW-ME05 Geoscientific data science (6) Climate Time Series and Risk Analysis | GEW-ME07 Special topics in Geosciences (6) Methods in Quaternary Geology and Paleoclimatology |
| | Master Project and Thesis (30) | | | | |

Possible study schedule for students with an interest in *Paleoclimate and Data Analysis*

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| Elective Modules |  |

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|----|--|--|---|--|--|
| Y1 | GEW-MC01 Sedimentary Earth System Record (6) | GEW-MC02 Tectonics and Geodynamics (6) | GEW-MC03 Data Analysis and Statistics (6) | GEW-MF03 Numerical Analysis and Modelling (6) Remote Sensing of the Environment | GEW-MF04 Specialization Module-Theory and Applications (6) Geo-Information Systems |
| | GEW-MM01 Topics in Earth System Science (6) | GEW-MC04 Advanced Field Practical (6) | GEW-MF13 Applied Geophysical Methods I (6) Potential field methods | GEW-MF03 Numerical Analysis and Modelling (6) Advanced Subsurface Modelling/Geoenergy | GEW-MF04 Specialization Module-Theory and Applications (6) Thematic Field School |
| Y2 | GEW-MM02 Project Practical or Research Internship (12) | | GEW-MF13 Applied Geophysical Methods I (6) Seismic methods | GEW-ME02 Geosciences across scales (6) Geothermics | GEW-ME05 Geoscientific data science (6) Groundwater in geological systems and its importance for georesources |
| | Master Project and Thesis (30) | | | | |

Possible study schedule for students with an interest in *Geosciences for Sustainable Energy*