

Study unit code	Study unit name	Scope	Teaching period	Method of completion	Language of instruction	Open to exchange students	Open to Open University Students
<b>Common Courses</b>	-	-	-	-	-	-	-
GEOM1003	Scientific Engagement	5 cr	Intensive week in August 2024, 1-4, Intensive week in May 2025 + summer 2025	Online teaching	English	no	no
GEOM1002	Conducting Scientific Research	10 cr	3–4	Contact teaching	English	no	no
GEOM1004	Internship	5 cr	Intensive week in August 2024, 1-4, Intensive week in May 2025 + summer 2025	Online teaching	Finnish, Swedish, English	no	no
<b>Courses from Thematic course lists and advanced topics - some of the courses can be found under different thematic course lists</b>	-	-	-	-	-	-	-
<b>Geochemistry</b>	-	-	-	-	-	-	-
GEOM2013	Geology of ore deposits and ore mineralogy	10 cr	3–4	Contact teaching	English	no	no

GEOM2023	Isotope geochemistry	5 cr	1	Contact teaching	English	yes	no
GEOM2038	Solid Earth Geochemical Methods	5 cr	2	Contact teaching	English	yes	no
GEOM2007	Environmental Geochemistry	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	yes	yes
GEOM2019	Igneous petrology	5 cr	2	Contact teaching	English	yes	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no
GEOM2043	Analytical methods in Environmental Geology	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2011	Geochemical modelling of igneous processes	5 cr	2	Contact teaching	English	no	no
GEOM2028	Methods in Mineralogy and Petrology	5 cr	1 + intensive week in August 2024	Contact teaching	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2048	Applied Hydrogeochemistry	5 cr	1	Contact teaching	English	no	no
<b>Petrology</b>	-	-	-	-	-	-	-

GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2013	Geology of ore deposits and ore mineralogy	10 cr	3–4	Contact teaching	English	no	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no
GEOM2019	Igneous petrology	5 cr	2	Contact teaching	English	yes	no
GEOM2038	Solid Earth Geochemical Methods	5 cr	2	Contact teaching	English	yes	no
GEOM2028	Methods in Mineralogy and Petrology	5 cr	1 + intensive week in August 2024	Contact teaching	English	yes	no
GEOM2030	Petrophysics	5 cr	2	Contact teaching	English	yes	no
<b>Economic Geology and Sustainability</b>	-	-	-	-	-	-	-
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no
GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	English	no	no

GEOM2007	Environmental Geochemistry	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	yes	yes
GEOM2011	Geochemical modelling of igneous processes	5 cr	2	Contact teaching	English	no	no
GEOM2019	Igneous petrology	5 cr	2	Contact teaching	English	yes	no
GEOM2051	3D Geological Modelling	5 cr	4	Contact teaching	English	yes	no
GEOM2013	Geology of ore deposits and ore mineralogy	10 cr	3–4	Contact teaching	English	no	no
GEOM2017	Pohjavesivarojen hallinta	5 cr	3	Contact teaching	Finnish	no	no
GEOM2029	Methods of mineral exploration	5 cr	1	Contact teaching	English	yes	no
GEOM2028	Methods in Mineralogy and Petrology	5 cr	1 + intensive week in August 2024	Contact teaching	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2048	Applied Hydrogeochemistry	5 cr	1	Contact teaching	English	no	no

GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	Finnish	no	no
GEOM2018	Pohjaveden laatu	5 cr	3	Blended teaching (includes contact and distance teaching)	Finnish	no	no
<b>Environmental Geology and Hydrogeology</b>	-	-	-	-	-	-	-
GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2007	Environmental Geochemistry	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	yes	yes
GEOM2035	Quaternary Geology	5 cr	3	Contact teaching	English	yes	no
GEOM2017	Pohjavesivarojen hallinta	5 cr	3	Contact teaching	Finnish	no	no
GEOM2051	3D Geological Modelling	5 cr	4	Contact teaching	English	yes	no
GEOM2014	Glacial Geology	5 cr	1 and 3 (general exam days)	Contact teaching	English	yes	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no

GEOM2043	Analytical methods in Environmental Geology	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2033	Quantifying the past	5 cr	3	Contact teaching	English	yes	no
GEOM2005	Clastic sedimentology	5 cr	Intensive week in May 2025	Contact teaching	English and Finnish	yes	no
GEOM2015	Ground-penetrating radar	5 cr	3	Contact teaching	English	yes	no
GEOM2034	Quantitative hydrogeology and flow modeling	5 cr	2	Blended teaching (includes contact and distance teaching)	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2044	Glacial Sedimentary Environments	5 cr	3	Contact teaching	English	yes	no
GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	Finnish	no	no

GEOM2018	Pohjaveden laatu	5 cr	3	Blended teaching (includes contact and distance teaching)	Finnish	no	no
<b>Sedimentology</b>	-	-	-	-	-	-	-
GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2035	Quaternary Geology	5 cr	3	Contact teaching	English	yes	no
GEOM2010	Fossil recognition and introduction to invertebrate paleontology	5 cr	1	Contact teaching	English	yes	no
GEOM2043	Analytical methods in Environmental Geology	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2051	3D Geological Modelling	5 cr	4	Contact teaching	English	yes	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2014	Glacial Geology	5 cr	1 and 3 (general exam days)	Contact teaching	English	yes	no
GEOM2036	Sedimentary petrology	5 cr	3	Contact teaching	English	yes	no

GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2033	Quantifying the past	5 cr	3	Contact teaching	English	yes	no
GEOM2005	Clastic sedimentology	5 cr	Intensive week in May 2025	Contact teaching	English and Finnish	yes	no
GEOM2015	Ground-penetrating radar	5 cr	3	Contact teaching	English	yes	no
GEOM2034	Quantitative hydrogeology and flow modeling	5 cr	2	Blended teaching (includes contact and distance teaching)	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2044	Glacial Sedimentary Environments	5 cr	3	Contact teaching	English	yes	no
GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	Finnish	no	no
<b>Palaeclimatology and Palaeoecology</b>	-	-	-	-	-	-	-
GEOM2026	Mammalian ecomorphology and introduction	5 cr	1	Contact teaching	English	yes	no



	vertebrate paleontology						
GEOM2050	Field Course for Sustainable Mining	5 cr	4 + intensive week in May 2025	Contact teaching	English	yes	no
GEOM2002	All about teeth	5 cr	Intensive week in May 2025	Contact teaching	English	yes	no
GEOM2014	Glacial Geology	5 cr	1 and 3 (general exam days)	Contact teaching	English	yes	no
GEOM2010	Fossil recognition and introduction to invertebrate paleontology	5 cr	1	Contact teaching	English	yes	no
GEOM2035	Quaternary Geology	5 cr	3	Contact teaching	English	yes	no
GEOM2024	Life on the Baltic continent - A Palaeozoic history	5 cr	Intensive week in May 2025	Contact teaching	English	yes	yes
GEOM2005	Clastic sedimentology	5 cr	Intensive week in May 2025	Contact teaching	English and Finnish	yes	no
GEOM2020	Introduction to Hominin Ecology and Evolution	5 cr	3	Contact teaching	English	yes	no
GEOM2031	Pollen analysis	5 cr	3	Contact teaching	English	yes	no

GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2041	Terrestrial Paleoenvironments during the Cenozoic	5 cr	4	Contact teaching	English	yes	no
<b>Palaeontology and Hominin Ecology</b>	-	-	-	-	-	-	-
GEOM2024	Life on the Baltic continent - A Palaeozoic history	5 cr	Intensive week in May 2025	Contact teaching	English	yes	yes
GEOM2026	Mammalian ecomorphology and introduction vertebrate paleontology	5 cr	1	Contact teaching	English	yes	no
GEOM2002	All about teeth	5 cr	Intensive week in May 2025	Contact teaching	English	yes	no
GEOM2010	Fossil recognition and introduction to invertebrate paleontology	5 cr	1	Contact teaching	English	yes	no
GEOM2033	Quantifying the past	5 cr	3	Contact teaching	English	yes	no

GEOM2022	Introduction to the Pleistocene	5 cr	4	Contact teaching	English	yes	no
GEOM2020	Introduction to Hominin Ecology and Evolution	5 cr	3	Contact teaching	English	yes	no
GEOM2031	Pollen analysis	5 cr	3	Contact teaching	English	yes	no
GEOM2041	Terrestrial Paleoenvironments during the Cenozoic	5 cr	4	Contact teaching	English	yes	no
<b>Structural Geology and Tectonics</b>	-	-	-	-	-	-	-
GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2025	Lithosphere structure and dynamics	5 cr	1–2	Contact teaching	English	yes	yes
GEOM2051	3D Geological Modelling	5 cr	4	Contact teaching	English	yes	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no

GEOM2045	Introduction to Geodesy	5 cr	3–4	Contact teaching	English	no	no
GEOM2021	Geodynamics	5 cr	1	Contact teaching	English	yes	yes
<b>Seismology</b>	-	-	-	-	-	-	-
GEOM2006	Earthquake seismology	5 cr	4	Contact teaching	English	yes	no
GEOM2042	Theory of Seismic Waves	5 cr	2	Contact teaching	English	yes	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2037	Seismogram and time series analysis	5 cr	Intensive week in August 2024	Contact teaching	English	yes	no
GEOM2025	Lithosphere structure and dynamics	5 cr	1–2	Contact teaching	English	yes	yes
GEOM2015	Ground-penetrating radar	5 cr	3	Contact teaching	English	yes	no
GEOM2041	Terrestrial Paleoenvironments during the Cenozoic	5 cr	4	Contact teaching	English	yes	no
GEOM2021	Geodynamics	5 cr	1	Contact teaching	English	yes	yes

<b>Geophysical Processes</b>	-	-	-	-	-	-	-
GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2006	Earthquake seismology	5 cr	4	Contact teaching	English	yes	no
GEOM2045	Introduction to Geodesy	5 cr	3–4	Contact teaching	English	no	no
GEOM2025	Lithosphere structure and dynamics	5 cr	1–2	Contact teaching	English	yes	yes
GEOM2046	Satellite positioning	5 cr	1–2	Contact teaching	English	no	no
GEOM2021	Geodynamics	5 cr	1	Contact teaching	English	yes	yes
<b>Geophysical Properties</b>	-	-	-	-	-	-	-
GEOM2042	Theory of Seismic Waves	5 cr	2	Contact teaching	English	yes	no
GEOM2025	Lithosphere structure and dynamics	5 cr	1–2	Contact teaching	English	yes	yes
GEOM2030	Petrophysics	5 cr	2	Contact teaching	English	yes	no

GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2015	Ground-penetrating radar	5 cr	3	Contact teaching	English	yes	no
GEOM2030	Petrophysics	5 cr	2	Contact teaching	English	yes	no
<b>Courses with Field Work</b>	-	-	-	-	-	-	-
GEOM2007	Environmental Geochemistry	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	yes	yes
GEOM2050	Field Course for Sustainable Mining	5 cr	4 + intensive week in May 2025	Contact teaching	English	yes	no
GEOM2043	Analytical methods in Environmental Geology	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2024	Life on the Baltic continent - A Palaeozoic history	5 cr	Intensive week in May 2025	Contact teaching	English	yes	yes
GEOM2005	Clastic sedimentology	5 cr	Intensive week in May 2025	Contact teaching	English and Finnish	yes	no
GEOM2031	Pollen analysis	5 cr	3	Contact teaching	English	yes	no

GEOM2049	Research methods in Groundwater Geology	5 cr	1	Blended teaching (includes contact and distance teaching)	Finnish	no	no
<b>Courses Developing Laboratory Skills</b>	-	-	-	-	-	-	-
GEOM2030	Petrophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2019	Igneous petrology	5 cr	2	Contact teaching	English	yes	no
GEOM2038	Solid Earth Geochemical Methods	5 cr	2	Contact teaching	English	yes	no
GEOM2010	Fossil recognition and introduction to invertebrate paleontology	5 cr	1	Contact teaching	English	yes	no
GEOM2043	Analytical methods in Environmental Geology	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	no	no
GEOM2023	Isotope geochemistry	5 cr	1	Contact teaching	English	yes	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no
GEOM2033	Quantifying the past	5 cr	3	Contact teaching	English	yes	no
GEOM2013	Geology of ore deposits and ore mineralogy	10 cr	3–4	Contact teaching	English	no	no

GEOM2007	Environmental Geochemistry	5 cr	1–2	Blended teaching (includes contact and distance teaching)	English	yes	yes
GEOM2002	All about teeth	5 cr	Intensive week in May 2025	Contact teaching	English	yes	no
GEOM2028	Methods in Mineralogy and Petrology	5 cr	1 + intensive week in August 2024	Contact teaching	English	yes	no
GEOM2030	Petrophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2031	Pollen analysis	5 cr	3	Contact teaching	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
<b>Courses including Programming and/or Scientific Software</b>	-	-	-	-	-	-	-
GEOM2003	Applied Geophysics	5 cr	2	Contact teaching	English	yes	no
GEOM2027	Metamorphic Petrology	5 cr	1–2	Contact teaching	English	yes	no
GEOM2051	3D Geological Modelling	5 cr	4	Contact teaching	English	yes	no
GEOM2037	Seismogram and time series analysis	5 cr	Intensive week in August 2024	Contact teaching	English	yes	no



GEOM2011	Geochemical modelling of igneous processes	5 cr	2	Contact teaching	English	no	no
GEOM2008	Field course of solid Earth geophysics	5 cr	1	Contact teaching	English	no	no
GEOM2015	Ground-penetrating radar	5 cr	3	Contact teaching	English	yes	no
GEOM2020	Introduction to Hominin Ecology and Evolution	5 cr	3	Contact teaching	English	yes	no
GEOM2034	Quantitative hydrogeology and flow modeling	5 cr	2	Blended teaching (includes contact and distance teaching)	English	yes	no
GEOM2039	Environmental Isotopes	5 cr	4	Contact teaching	English	yes	no
GEOM2044	Glacial Sedimentary Environments	5 cr	3	Contact teaching	English	yes	no
GEOM2048	Applied Hydrogeochemistry	5 cr	1	Contact teaching	English	no	no
<b>Advanced Topics in Geology and Geophysics - Book exam and pop-up courses in academic year 2024-2025</b>	-	-	-	-	-	-	-

GEOM2052	Book exam	5 cr	1–4 (general exam days)	Book exam	English	no	no
GEOM2059	Environmental Magnetism	5 cr	1 + intensive week in October 2024	Contact teaching	English	yes	yes
GEOM2064	Advanced Hydrogeology	5 cr	4	Blended teaching (includes contact and distance teaching)	English	yes	no
GEOM2065	Advanced Glacial geology	5 cr	4	Blended teaching (includes contact and distance teaching)	English	yes	no