

Block view of the study programme

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Block 1

Compulsory courses

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|------------|---|----|----|----|-----|----|
| GEOL0210-1 | <i>Fieldwork in foreign countries</i> - Olivier BOLLE, Bernard CHARLIER, AnneChristine DA SILVA, Nathalie FAGEL, Valentin FISCHER, Frédéric HATERT, HansBalder HAVENITH, Emmanuelle JAVAUX, Jacqueline VANDER AUWERA - [10d FW] | Q2 | - | - | [+] | 5 |
| GEOL0301-1 | <i>Cartography and geomodelling (personnal work)</i> - HansBalder HAVENITH - [15d FW] | Q2 | 10 | 30 | [+] | 10 |
| GEOL0297-1 | <i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA | Q1 | 15 | 15 | - | 3 |
| GEOL0099-1 | <i>Evolution of the Phanerozoic biosphere (english language)</i> - Valentin FISCHER - [2d FW] | Q1 | 20 | - | [+] | 3 |
| GEOL1022-2 | <i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX | Q1 | 20 | 10 | - | 3 |
| GEOL0209-1 | <i>Isotopic geochemistry</i> - Jacqueline VANDER AUWERA | Q1 | 20 | 10 | - | 3 |
| GEOL1041-1 | <i>Gemmology and Analytical Mineralogy</i> - Frédéric HATERT | Q1 | 15 | 15 | - | 3 |
| GEOL0282-2 | <i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL | Q1 | 15 | 15 | - | 3 |
| GEOL0304-1 | <i>Introduction to neotectonics, seismology and physical volcanology (english language)</i> - Clara BRERETON, HansBalder HAVENITH - [2d FW] | Q1 | 25 | 15 | [+] | 4 |

Optional courses

In agreement with the jury, chose courses that haven't already been taken for a total of 23 credits, in at least two different areas, from among:

Resources and methods

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|------------|--|----|----|----|-----|---|
| GEOL0296-1 | <i>Clays and environment</i> - Nathalie FAGEL - [1d FW] (Even years) | Q1 | 15 | 15 | [+] | 4 |
| GEOL0020-7 | <i>Mineral resources (english language)</i> - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.] | Q1 | 26 | - | [+] | 5 |
| GEOL0277-1 | <i>Groundwater quality and protection (english language)</i> - Serge BROUYÈRE - [1d FW, 35h Proj.] | Q1 | 20 | 20 | [+] | 5 |
| GEOL0313-1 | <i>Remediation of contaminated sites (english language)</i> - Serge BROUYÈRE - [2d FW, 40h Proj.] | Q1 | 24 | 24 | [+] | 4 |
| GEOL0237-2 | <i>Exploitation of mineral deposits</i> - - Suppl : Eric POOT - [2d FW] | Q1 | 25 | 15 | [+] | 5 |
| GEOL1021-1 | <i>Introduction to geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN - [5d FW] | Q2 | 30 | 30 | [+] | 6 |
| GCIV0620-1 | <i>Introduction to geotechnics</i> - Part A - Robert CHARLIER - [1d FW] - Part B - Robert CHARLIER | Q1 | | | | 5 |
| | | | 20 | 10 | [+] | |
| | | | 10 | 10 | - | |
| GEOL0048-2 | (pas organisé en 2020-2021) <i>Statistical Analysis of Geological Data</i> | Q2 | 15 | 35 | - | 5 |
| CRIS0204-1 | <i>Complement of crystallography</i> - Frédéric HATERT | Q2 | 15 | 10 | - | 3 |
| GEOL1040-1 | <i>Metallogeny</i> - Bernard CHARLIER | Q2 | 15 | 15 | - | 4 |
| GEOL0008-2 | <i>Hydrocarbons in the energy transition</i> - <i>Geology applied to the exploration of hydrocarbons</i> - Pierre CORNET - <i>Additional theory and practice</i> - Pierre CORNET | Q1 | | | | 4 |
| | | | 15 | - | - | |
| | | | 5 | 20 | - | |
| | Corequisite : GEOL1050-1 - Les hydrocarbures non conventionnels dans la transition énergétique | | | | | |
| GEOL1050-1 | <i>Unconventional hydrocarbons in the energy transition</i> - Xavier LIMPENS | Q1 | 15 | - | - | 3 |
| | Corequisite : GEOL0008-2 - Les hydrocarbures dans la transition énergétique | | | | | |

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| GEOL0225-3 | <i>Analytical geochemistry</i> - Nathalie FAGEL - [1d FW] | Q1 | 10 | 10 | [+] | 3 |
| GEOL1046-1 | <i>Geothermy</i> (english language) - Robert CHARLIER, Alain DASSARGUES, HansBalder HAVENITH - [40h Proj., 1d FW] | Q2 | 18 | 15 | [+] | 5 |

Evolution of the Earth and the biosphere

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|------------|--|----|----|----|-----|---|
| GEOL1049-1 | <i>Palaeobiology</i> (english language) - Julien DENAYER, Valentin FISCHER - [2d FW] | Q1 | 25 | 15 | [+] | 4 |
| SPAT0027-3 | <i>Climate change and impacts</i> (english language) - Louis FRANÇOIS, Guy MUNHOVEN | TA | 15 | 45 | - | 5 |
| CLIM0009-1 | <i>Biogeochemical cycle modelling and global changes</i> - Louis FRANÇOIS | Q1 | 20 | 20 | - | 4 |
| SPAT0054-1 | <i>Astrophysics and astrochemistry</i> - Michaël DE BECKER | Q2 | 15 | 5 | - | 3 |
| GEOL0263-1 | <i>Astrobiology</i> (english language) - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE | Q2 | 45 | - | - | 5 |
| GEOL0224-2 | <i>Paleoclimatology</i> - Nathalie FAGEL - [1d FW] (Odd years) | Q1 | 15 | 15 | [+] | 4 |
| GEOL1023-1 | <i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years) | Q2 | 30 | - | - | 4 |

Geological processes

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|------------|---|----|----|----|-----|---|
| GEOL0319-1 | <i>Geological hazard and risk assessment, From theory to field work</i> (english language) - HansBalder HAVENITH - [2d FW] (Odd years) | Q2 | 25 | 10 | [+] | 4 |
| GEOL0213-1 | <i>Geodynamics</i> - Bernard BINGEN Corequisite : GEOL0209-1 - Géochimie isotopique et géochronologie | Q2 | 15 | - | - | 3 |
| GEOG0212-1 | <i>Pedology</i> - Gilles COLINET, JeanThomas CORNELIS - Suppl : Marie DINCHER - [1d FW] (Even years) | Q2 | 15 | 8 | [+] | 3 |
| GEOL1039-2 | <i>Geological oceanography, From theory to field work</i> - Nathalie FAGEL - [1d FW] | Q1 | 20 | 20 | [+] | 4 |
| GEOL0256-1 | <i>Marine sediment geochemistry</i> (english language) - Nathalie FAGEL | Q1 | 15 | 15 | - | 4 |
| GEOL0292-1 | <i>Sedimentology applied to archaeology</i> - Stéphane PIRSON - [8d FT Tr. Pr.] | Q2 | 30 | - | [+] | 5 |
| GEOL0302-1 | <i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years) Corequisite : GEOL0209-1 - Géochimie isotopique et géochronologie | Q2 | 20 | 30 | - | 5 |
| GEOL0223-1 | <i>Complement of tectonics</i> - Olivier BOLLE (Even years) | Q2 | 15 | 15 | - | 4 |
| GEOL0303-1 | <i>Geomagnetism and environmental magnetism</i> (english language) - AnneChristine DA SILVA (Even years) | Q2 | 15 | 5 | - | 3 |
| GEOL1030-1 | <i>Meteoric palaeoweathering</i> - Johan YANS - [1d FW] (Odd years) | Q2 | 12 | 12 | [+] | 3 |

[...] 1 or 2 course(s) from the courses' programme of the University of Liege

Block 2

Compulsory courses

| | | | | | | |
|------------|---|----|---|----|---|----|
| SMEM0022-1 | <i>Final thesis</i> - COLLÉGIALITÉ | TA | - | - | - | 27 |
| GEOL0318-1 | <i>Scientific writing and communication</i> - Annick ANCEAU, COLLÉGIALITÉ Corequisite : SMEM0022-1 - Mémoire | Q1 | - | 20 | - | 3 |

Focus courses

Single focus

Research Focus

SSTG0011-1 *Work placement* - COLLÉGIALITÉ, Valentin FISCHER - [4w Internship] Q2 - - [+] **10**

Choose courses, with the approval of the Jury, totalling 20 credits among :

[...] choose extra courses from the ULiège curriculum that haven't already been chosen for a total of 11 to 20 credits

[...] Maximum 9 ECTS can be chosen in the courses' programme of another university

Bloc d'aménagement du programme de l'année

Additional ECTS (max 60) Master in geology (120 ECTS)

Optional courses

The update course, worth a maximum of 60 credits, will be determined based on students' prior training.

[...] At most 60 credits of courses from "Bachelier en sciences géologiques"