

**Cycle view of the study programme**

B1 Or Th Pr Au Cr

Further Informations

**Optional courses (B1 : 30Cr)**

**Liege - Levelling and Introductory Courses**

Choose 6 courses out of the following : (B1 : 30Cr)

**Characterization**

GEOL0020-7 *Mineral resources* (english language) - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.] B1 Q1 26 - [+] 5

GEOL0312-1 *Process mineralogy* (english language) - Eric PIRARD - [25h Labo., 15h Proj.] B1 Q1 25 - [+] 5

**Processing**

GEOL0314-1 *Mineral processing I - basics* (english language) - Stoyan GAYDARDZHIEV - [30h Labo., 10h Proj., 1,5d FW] B1 Q1 30 - [+] 5

GEOL0315-1 *Solid Waste and by products processing* (english language) - Stoyan GAYDARDZHIEV - [20h Labo., 7h Proj., 1,5d FW] B1 Q1 20 - [+] 5

**Modelling**

MATH0006-3 *Introduction to numerical analysis* (english language) - Quentin LOUVEAUX B1 Q1 20 20 - 5

GEOL0097-2 *Geostatistics* (english language) - Elsy IBRAHIM, Eric PIRARD - [30h Labo.] B1 Q1 30 - [+] 5

**Management**

GEOL1045-1 *Economic and societal issues in mining and recycling* (english language) - Eric PIRARD - [30h Proj., 2d FW] B1 Q1 15 - [+] 5

GEOL0237-2 *Exploitation of mineral deposits* - Eric POOT - [2d FW] B1 Q1 25 15 [+] 5

**Compulsory courses (B1 : 30Cr)**

**Nancy - Basic Courses**

**Characterization**

HULG0417-1 *Advanced characterization of mineral surfaces/water interface* (english language) - N... B1 Q2 35 10 - 5

**Processing**

HULG0418-1 *Case study of ore processing* (english language) - N... B1 Q2 10 40 - 5

HULG0419-1 *Advanced mineral processing* (english language) - N... B1 Q2 57 18 - 8

**Modelling**

HULG0421-1 *Resources modelling and evaluation* (english language) - N... B1 Q2 25 25 - 5

**Management**

HULG9270-1 *Management of resources* (english language) - N... B1 Q2 25 25 - 5

HULG9342-1 *Exploitation of mineral raw materials and environmental impact of mining* (english language) B1 Q2 9 16 - 2

**Optional courses (B2 : 30Cr)**

Choose one module from : (B2 : 30Cr)

**From 2018-2019, students can choose a destination between Lulea and Freiberg**

#### Lulea - Advanced Courses (B2 : 30Cr)

##### Characterization

HULG0423-1 *Mining geology (english language) - N...* B2 Q1 45 30 - **7,5**

##### Processing

HULG0424-1 *Mineral processing II (english language) - N...* B2 Q1 45 30 - **7,5**

##### Modelling

HULG0426-1 *Geometallurgy (english language) - N...* B2 Q1 46 20 - **7,5**

Choose one of the following courses : (B2 : 7,5Cr)

HULG0425-1 *Simulation of mineral processing (english language) - N...* B2 Q1 40 35 - **7,5**

HULG9143-1 *Senior Design Project in Mineral processing (english language)* B2 Q1 - - - **7,5**

#### Freiberg - Advanced Courses (B2 : 30Cr)

*Notice : this course list is for students enrolled in Block 1 of the master's degree in 2018-2019.*

##### Processing

HULG9343-1 *Project-Process Design Mineral Processing/Recycling (english language)* B2 Q1 15 90 - **8**

HULG9383-1 *Selective Separation of Strategic Elements (english language)* B2 Q1 30 30 - **4**

HULG9384-1 *Thermodynamics and Heat Transfer (english language)* B2 Q1 15 30 - **4**

HULG9385-1 *Practice of secondary raw materials (english language)* B2 Q1 15 60 - **5**

##### Management

HULG9386-1 *Resource Management (english language)* B2 Q1 30 30 - **6**

Choose one of the following courses : (B2 : 3Cr)

HULG9387-1 *Simulation of sustainable nonferrous metallurgical process systems (english language)* B2 Q1 30 - - **3**

HULG9388-1 *Mineral Liberation Analysis of Mineral Resources (english language)* B2 Q1 30 - - **3**

#### Compulsory courses (B2 : 30Cr)

##### Freiberg or Lulea or Nancy or Liege - Master Thesis

ASTG0113-1 *Internship with one of the associate industrial partners (english language) - N...* B2 Q2 - - - **5**

ATFE0020-1 *Master thesis (english language) - N...* B2 Q2 - - - **25**