

**Block view of the study programme**

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**Block 1**

Further Informations

**Optional courses**

**Liege - Levelling and Introductory Courses**

Choose 6 courses out of the following :

**Characterization**

GEOL0020-7	<i>Mineral resources</i> (english language) - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.]	Q1	26	-	[+]	5
GEOL0312-1	<i>Process mineralogy</i> (english language) - Hassan BOUZHAAH, Eric PIRARD - [25h Labo., 15h Proj.]	Q1	25	-	[+]	5

**Processing**

GEOL0314-1	<i>Mineral processing I - basics</i> (english language) - Stoyan GAYDARDZHIEV - [30h Labo., 10h Proj., 1,5d FW]	Q1	30	-	[+]	5
GEOL0315-1	<i>Solid Waste and by products processing</i> (english language) - Stoyan GAYDARDZHIEV - [20h Labo., 7h Proj., 1,5d FW]	Q1	20	-	[+]	5

**Modelling**

MATH0006-3	<i>Introduction to numerical analysis</i> (english language) - Quentin LOUVEAUX	Q1	20	20	-	5
GEOL0097-2	<i>Geostatistics</i> (english language) - Eric PIRARD - [30h Labo.]	Q1	30	-	[+]	5

**Management**

GEOL1045-1	<i>Economic and societal issues in mining and recycling</i> (english language) - Eric PIRARD - [30h Proj., 2d FW]	Q1	15	-	[+]	5
GEOL0237-2	<i>Exploitation of mineral deposits</i> (english language) - Nicolas VASBINDER - [2d FW]	Q1	25	15	[+]	5

**Compulsory courses**

**Nancy - Basic Courses**

**Characterization**

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

HULG0418-1	<i>Case study of ore processing</i> (english language) - N...	Q2	10	40	-	5
HULG0419-1	<i>Advanced mineral processing</i> (english language) - N...	Q2	57	18	-	8

**Modelling**

HULG0421-1	<i>Resources modelling and evaluation</i> (english language) - N...	Q2	25	25	-	5
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**Management**

HULG9270-1	<i>Management of resources</i> (english language) - N...	Q2	25	25	-	5
HULG9342-1	<i>Exploitation of mineral raw materials and environmental impact of mining</i> (english language)	Q2	9	16	-	2

**Block 2**

**Optional courses**

Choose one module from :

#### Lulea - Advanced Courses

##### Characterization

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

##### Processing

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

##### Modelling

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

Choose one of the following courses :

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

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

#### Freiberg - Advanced Courses

*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) Q1 15 90 - **8**

HULG9383-1 *Selective Separation of Strategic Elements* (english language) Q1 30 30 - **5**

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

HULG9385-1 *Practice of secondary raw materials* (english language) Q1 15 60 - **4**

##### Management

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

Choose one of the following courses :

HULG9387-1 *Simulation of sustainable nonferrous metallurgical process systems* (english language) Q1 30 - - **6**

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

#### Compulsory courses

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

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

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