

## Block view of the study programme

Or Th Pr Au Cr

### Bloc 1 du programme de l'année

#### Optional courses

##### Liege - Levelling and Introductory Courses

Choose 6 courses out of the following :

##### Characterization

GEOL0020-7 *Mineral resources* (english language) - Eric PIRARD - [1d FW, 30h Labo., 32h Proj.] Q1 30 - [+] 5

GEOL0312-2 *Process mineralogy* (english language) - Eric PIRARD Q1 30 30 - 5

##### Processing

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

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

##### Modelling

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

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

##### Management

HULG0422-1 *Economic and Societal Issues in Mining (Seminars and workshops)* (english language) - Jacques TACK - - - 5

### Compulsory courses

##### Nancy - Basic Courses

##### Characterization

HULG0417-1 *Advanced characterization of mineral surfaces* (english language) - N... Q2 25 10 - 2,5

##### Processing

HULG0418-1 *Pilot plant project* (english language) - N... Q2 10 40 - 5

HULG0419-1 *Advanced mineral processing* (english language) - N... Q2 45 30 - 7,5

HULG0420-1 *Recycling* (english language) - N... Q2 30 15 - 5

##### Modelling

HULG0421-1 *Geomodelling and 3D GIS* (english language) - N... Q2 25 25 - 5

##### Management

HULG9270-1 *Seminars and workshop : Invited speakers on economic aspects of raw and secondary materials* (english language) - N... - - - 5

### Bloc 2 du programme de l'année

#### Compulsory courses

##### Lulea - Advanced courses

##### Characterization

HULG0423-1 *Mining geology* (english language) - N... Q2 45 30 - 7,5

##### Processing

HULG0424-1	<i>Mineral processing II</i> (english language) - N...	Q1	45	30	-	<b>7,5</b>
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**Management**

HULG0426-1	<i>Geometallurgy</i> (english language) - N...	Q1	46	20	-	<b>7,5</b>
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**Optional courses**

Choose one of the following courses :

HULG0425-1	<i>Simulation of mineral processing</i> (english language) - N...	Q1	40	35	-	<b>7,5</b>
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HULG9143-1	<i>Senior Design Project in Mineral processing</i> (english language)	Q1	-	-	-	<b>7,5</b>
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**Compulsory courses**

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

ASTG0113-1	<i>Internship with one of the associate industrial partners</i> (english language) - N...	Q2	-	-	-	<b>5</b>
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ATFE0020-1	<i>Master thesis</i> (english language) - N...	Q2	-	-	-	<b>25</b>
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**Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en ingénieur civil des mines et géologue, à finalité approfondie (EMERALD)" en 2014-2015**

**Bloc 1 du programme de l'année**

**Compulsory courses**

Third semester - Lulea - Advanced courses

**Characterisation**

HULG0423-1	<i>Mining geology</i> (english language) - N...	Q2	45	30	-	<b>7,5</b>
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**Processing**

HULG0424-1	<i>Mineral processing II</i> (english language) - N...	Q1	45	30	-	<b>7,5</b>
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**Management**

HULG0426-1	<i>Geometallurgy</i> (english language) - N...	Q1	46	20	-	<b>7,5</b>
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Fourth semester : Freiberg or Lulea or Nancy or Liège - Master thesis

ASTG0113-1	<i>Internship with one of the associate industrial partners</i> (english language) - N...	Q2	-	-	-	<b>5</b>
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ATFE0020-1	<i>Master thesis</i> (english language) - N...	Q2	-	-	-	<b>25</b>
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**Optional courses**

Third semester - Lulea - Advanced courses

Choose one of the following courses :

HULG0425-1	<i>Simulation of mineral processing</i> (english language) - N...	Q1	40	35	-	<b>7,5</b>
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HULG9143-1	<i>Senior Design Project in Mineral processing</i> (english language)	Q1	-	-	-	<b>7,5</b>
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