

#### Cycle view of the study programme

|                                                             |                                                                                                                                              | Bl | Or             | Th           | Pr     | Au  | Cr |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|----------------|--------------|--------|-----|----|
| <b>Compulsory courses (B1 : 60Cr, B2 : 60Cr, B3 : 60Cr)</b> |                                                                                                                                              |    |                |              |        |     |    |
| MATH0086-1                                                  | <i>Analysis I, part 1</i> - Céline ESSER                                                                                                     | B1 | Q1             | 45           | 30     | -   | 7  |
| PHYS1985-1                                                  | <i>General physics I</i> - John MARTIN, Nicolas VANDEWALLE - Suppl : Maxime HUBERT                                                           | B1 | Q1             | 40           | 40     | -   | 8  |
| CHIM0737-6                                                  | <i>Chemistry</i><br>- <i>Theory</i> - Rudi CLOOTS<br>- <i>Pratique</i> - Rudi CLOOTS                                                         | B1 | Q1<br>30<br>-  | -<br>-<br>40 | -<br>- |     | 7  |
| MATH7369-1                                                  | <i>Algebra</i><br>- <i>Introduction à l'enseignement universitaire de l'algèbre</i> - Michel RIGO<br>- <i>Calcul matriciel</i> - Michel RIGO | B1 | Q1<br>10<br>30 | 5<br>25      | -<br>- |     | 7  |
| MATH0087-1                                                  | <i>Analysis I, part 2</i> - Céline ESSER                                                                                                     | B1 | Q2             | 35           | 30     | -   | 6  |
| PHYS1986-2                                                  | <i>General physics II</i><br>- <i>Part A</i> - Ngoc Duy NGUYEN<br>- <i>Part B</i> - Ngoc Duy NGUYEN                                          | B1 | Q2<br>35<br>15 | 25<br>25     | -<br>- |     | 11 |
| INFO0201-1                                                  | <i>Introduction to computer programming</i> - Peter SCHLAGHECK                                                                               | B1 | Q2             | 20           | 40     | -   | 6  |
| MATH1203-2                                                  | <i>Geometry I, Elements of affine and Euclidian geometry</i> - Pierre MATHONET                                                               | B1 | Q2             | 25           | 15     | -   | 4  |
| LANG2967-5                                                  | <i>English: introduction (english language)</i> - Clara BRERETON, Françoise CARL, Véronique DOPPAGNE                                         | B1 | Q2             | 30           | -      | -   | 2  |
| STRA0004-2                                                  | <i>Personal works</i> - Eric OPSOMER                                                                                                         | B1 | Q2             | 20           | -      | -   | 2  |
| MATH0247-4                                                  | <i>Analysis II</i> - Françoise BASTIN                                                                                                        | B2 | Q1             | 30           | 30     | -   | 6  |
| MECA0201-1                                                  | <i>Analytical Mechanics I</i> - Pierre DAUBY                                                                                                 | B2 | Q1             | 30           | 30     | -   | 6  |
| PHYS3032-1                                                  | <i>Optics</i> - Serge HABRAKEN                                                                                                               | B2 | Q2             | 20           | 15     | -   | 3  |
| PHYS2009-1                                                  | <i>Modern physics</i> - Laurent DREESEN                                                                                                      | B2 | Q1             | 30           | 25     | -   | 5  |
| PHYS2010-1                                                  | <i>Thermodynamics</i> - Nicolas VANDEWALLE - Suppl : Maxime HUBERT                                                                           | B2 | Q1             | 30           | 15     | -   | 4  |
| PHYS0209-3                                                  | <i>Numerical methods in physics</i> - Thierry BASTIN                                                                                         | B2 | Q1             | 25           | 35     | -   | 6  |
| MATH0070-1                                                  | <i>Linear algebra</i> - Michel RIGO                                                                                                          | B2 | Q2             | 30           | 25     | -   | 5  |
| BIOL0851-1                                                  | <i>Biology</i> - Patrick MOTTE                                                                                                               | B2 | Q2             | 30           | -      | -   | 3  |
| PHYS0060-1                                                  | <i>Structures and Symmetries</i> - Alejandro SILHANEK                                                                                        | B2 | Q2             | 30           | 20     | -   | 4  |
| PHYS3030-3                                                  | <i>Electromagnetism, Partim A</i> - John MARTIN                                                                                              | B2 | Q2             | 30           | 15     | -   | 4  |
| CHIM0274-2                                                  | <i>General chemistry, including organic chemistry</i> - Bénédicte VERTRUYEN - [12h Labo., 16h QA Sess.]                                      | B2 | Q2             | 40           | -      | [+] | 7  |
| PHYS0957-1                                                  | <i>Physics of Fluids</i> - Hervé CAPS                                                                                                        | B2 | Q2             | 20           | 10     | -   | 3  |
| LANG0076-5                                                  | <i>English 1 (english language)</i> - Clara BRERETON, Caroline VAN LINTHOUT                                                                  | B2 | TA             | 45           | -      | -   | 4  |
| STAT0064-3                                                  | <i>Statistics of experimental data in physics</i> - Céline ESSER, Gentiane HAESBROECK                                                        | B3 | Q1             | 30           | 15     | -   | 4  |
| PHYS3033-1                                                  | <i>Quantum physics I</i> - Thierry BASTIN                                                                                                    | B3 | Q1             | 35           | 25     | -   | 6  |
| PHYS0092-1                                                  | <i>Experimental physics : Electronic and instrumentation</i> - Ngoc Duy NGUYEN                                                               | B3 | Q1             | 30           | 35     | -   | 6  |
| MECA0523-1                                                  | <i>Analytical mechanics II</i><br>- <i>Part A</i> - Pierre DAUBY<br>- <i>Part B</i> - Pierre DAUBY                                           | B3 | Q1<br>12<br>18 | 15<br>15     | -<br>- |     | 6  |
| ASTR0204-2                                                  | <i>Astrophysics and geophysics</i> - MarcAntoine DUPRET, Valérie VAN GROOTEL                                                                 | B3 | Q1             | 30           | 30     | -   | 5  |

|            |                                                                                            |    |    |    |    |     |          |
|------------|--------------------------------------------------------------------------------------------|----|----|----|----|-----|----------|
| PHYS0089-1 | <i>Mathematical tools of physics</i> - Peter SCHLAGHECK                                    | B3 | Q2 | 30 | 30 | -   | <b>6</b> |
| PHYS3034-1 | <i>Quantum physics II</i> - Thierry BASTIN                                                 | B3 | Q2 | 20 | 10 | -   | <b>3</b> |
| PHYS0093-1 | <i>Nuclear detection</i> - David STRIVAY                                                   | B3 | Q2 | 10 | 25 | -   | <b>3</b> |
| PHYS0212-2 | <i>Statistical physics</i> - Nicolas VANDEWALLE - Suppl : Maxime HUBERT                    | B3 | Q2 | 30 | 30 | -   | <b>6</b> |
| PHYS0936-2 | <i>Introduction to materials physics</i> - Philippe GHOSEZ                                 | B3 | Q2 | 30 | 20 | -   | <b>5</b> |
| DURA0005-2 | <i>Sustainability and transition</i> - Sylvie GOBERT, Catherine HENRIST - [8h Mon. WS]     | B3 | Q2 | 12 | -  | [+] | <b>2</b> |
| STRA0005-3 | <i>Training sessions and personal work</i> - Geoffroy LUMAY, Christelle PROSPERI - [2d FW] | B3 | TA | 10 | 30 | [+] | <b>4</b> |
| LANG0077-7 | <i>English 2 (english language)</i> - Ellen HARRY                                          | B3 | TA | 45 | -  | -   | <b>4</b> |

#### Optional free courses (B2 : 4Cr, B3 : 2Cr)

|            |                                                                             |    |    |    |    |   |          |
|------------|-----------------------------------------------------------------------------|----|----|----|----|---|----------|
| OCEA0053-1 | <i>Study of Oceans and Coastal Management</i> - Sylvie GOBERT, Anne GOFFART | B2 | Q2 | -  | 40 | - | <b>4</b> |
| PHIL0201-1 | <i>Elements of sciences philosophy</i> - Pieter THYSEN                      | B3 | Q2 | 15 | -  | - | <b>2</b> |

#### Learning support activities (B1 : 1Cr)

**Aimed at students who have acquired less than 30 credits.**

Cross-disciplinary activities

|            |                                                                                                                                     |    |    |   |   |     |   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|----|----|---|---|-----|---|
| IREM0009-1 | <i>Hebdo MethodO: additional support linked to the context of repeating a year</i> - Sylviane HUBERT, AnneFrance LANOTTE - [5h REM] | B1 | TA | - | - | [+] | - |
| IREM0010-1 | <i>Getting B1 off to a good start</i> - Sylviane HUBERT, AnneFrance LANOTTE - [2h REM]                                              | B1 | Q1 | - | - | [+] | - |
| IREM0018-1 | <i>Maintaining or rediscovering your motivation if you have to repeat a year (Q1)</i> - Céline MATHY, Sandrine WUIDART - [2h REM]   | B1 | Q1 | - | - | [+] | - |
| LREM0010-1 | <i>Taking stock of your skills in French (Q1)</i> - Samia HAMMAMI, Frédéric SAENEN - [15h REM]                                      | B1 | Q1 | - | - | [+] | - |

#### Aimed at students with reduced hours (art. 150)

- To consult the list of courses, click on this link: <https://www.student.uliege.be/student/remediations-allegement150>
- To add these courses to your SAP, please contact the student affairs office

#### Aimed at all students in block 1.

- To consult the list of courses, click on this link: <https://www.student.uliege.be/student/remediations-toutpublic>
- To add these courses to your SAP, please contact the student affairs office