

#### Cycle view of the study programme

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| <b>Compulsory courses (B1 : 60Cr, B2 : 60Cr, B3 : 60Cr)</b> |                                                                                                                                                                                                                                                            |    |               |               |        |     |    |
| CHIM0747-1                                                  | <i>Introduction to chemical studies and careers</i> - Rudi CLOOTS, JeanFrançois FOCANT, JeanChristophe MONBALIU, Bénédicte VERTRUYEN                                                                                                                       | B1 | Q1            | 20            | -      | -   | 2  |
| CHIM0748-1                                                  | <i>General chemistry</i><br>- <i>Theoretical bases</i> - Loïc QUINTON<br>- <i>Practical work and tutorials</i> - Loïc QUINTON                                                                                                                              | B1 | Q1<br>50<br>- | -<br>-<br>80  | -<br>- |     | 13 |
| MATH2007-1                                                  | <i>General mathematics I</i> - Françoise BASTIN                                                                                                                                                                                                            | B1 | Q1            | 30            | 40     | -   | 7  |
| PHYS1985-1                                                  | <i>General physics I</i> - John MARTIN, Nicolas VANDEWALLE - Suppl : Maxime HUBERT                                                                                                                                                                         | B1 | Q1            | 40            | 40     | -   | 8  |
| CHIM0749-1                                                  | <i>Complements to general chemistry</i> - Rudi CLOOTS, JeanFrançois FOCANT                                                                                                                                                                                 | B1 | Q2            | 20            | 20     | -   | 4  |
| CHIM0205-2                                                  | <i>Organic chemistry I</i> - JeanChristophe MONBALIU                                                                                                                                                                                                       | B1 | Q2            | 40            | 50     | -   | 9  |
| DURA0005-2                                                  | <i>Sustainability and transition</i> - Sylvie GOBERT, Catherine HENRIST - [8h Mon. WS]                                                                                                                                                                     | B1 | Q2            | 12            | -      | [+] | 3  |
| MATH1009-1                                                  | <i>General mathematics II</i> - Françoise BASTIN                                                                                                                                                                                                           | B1 | Q2            | 25            | 30     | -   | 6  |
| PHYS1986-1                                                  | <i>General physics II, Part A</i> - Ngoc Duy NGUYEN                                                                                                                                                                                                        | B1 | Q2            | 35            | 25     | -   | 6  |
| LANG2967-3                                                  | <i>English: introduction (english language)</i> - Clara BRERETON, Véronique DOPPAGNE, Andrea TUDINO                                                                                                                                                        | B1 | Q2            | 30            | -      | -   | 2  |
| CRIS0203-1                                                  | <i>Elements in crystallography</i> - Rudi CLOOTS - [15h Mon. WS]<br><b>Prerequisite :</b><br>PHYS1986-1 - Physique générale II                                                                                                                             | B2 | Q1            | 15            | -      | [+] | 2  |
| CHIM0739-2                                                  | <i>Thermodynamics</i> - Loïc QUINTON - [15h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0748-1 - Chimie générale                                                                                                                                              | B2 | Q1            | 20            | 20     | [+] | 4  |
| CHIM0704-1                                                  | <i>Theoretical chemistry</i> - Françoise REMACLE - [18h Mon. WS]<br><b>Prerequisite :</b><br>MATH1009-1 - Mathématiques générales II<br>PHYS1985-1 - Physique générale I<br><b>Corequisite :</b><br>MATH2014-1 - Compléments de mathématique               | B2 | Q1            | 30            | -      | [+] | 5  |
| CHIM9283-1                                                  | <i>Organic Chemistry II, Part A</i> - JeanChristophe MONBALIU - [10h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0205-2 - Chimie organique I                                                                                                                  | B2 | Q1            | 25            | 45     | [+] | 6  |
| CHIM9284-1                                                  | <i>Analytical chemistry I - Chemical analysis methods</i><br>- <i>Theory</i> - Gauthier EPPE<br>- <i>Tutorials</i> - Gauthier EPPE - [26h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0748-1 - Chimie générale<br>CHIM0749-1 - Compléments de chimie générale | B2 | Q1<br>26<br>- | -<br>-<br>[+] | -      |     | 4  |
| MATH2014-1                                                  | <i>Mathematics supplements</i> - Françoise BASTIN<br><b>Prerequisite :</b><br>MATH1009-1 - Mathématiques générales II                                                                                                                                      | B2 | Q1            | 10            | 13     | -   | 3  |
| BIOL0870-1                                                  | <i>Biology</i> - François BEAUFAY                                                                                                                                                                                                                          | B2 | Q1            | 24            | 20     | -   | 4  |
| CHIM0750-1                                                  | <i>Data visualization and processing in chemistry</i> - Cédric MALHERBE, PierreHugues STEFANUTO                                                                                                                                                            | B2 | TA            | 5             | 20     | -   | 3  |
| CHIM9285-1                                                  | <i>Chemical Kinetics, Introduction to Spectroscopy and Group Theory</i> - Bernard LEYH - [20h Mon. WS]<br><b>Corequisite :</b>                                                                                                                             | B2 | Q2            | 35            | -      | [+] | 6  |

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|            | CHIM0704-1 - Chimie théorique                                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |    |     |   |  |  |
| CHIM9283-2 | <i>Organic Chemistry II, Part B</i> - JeanChristophe MONBALIU - [15h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0205-2 - Chimie organique I<br><b>Corequisite :</b><br>CHIM9283-1 - Chimie organique II                                                                                                                                                                                                            | B2 | Q2 | 15 | -  | [+] | 3 |  |  |
| CHIM9286-1 | <i>Analytical Chemistry II - Separation methods</i> - Gauthier EPPE                                                                                                                                                                                                                                                                                                                                              | B2 | Q2 | 20 | 80 | -   | 6 |  |  |
| CHIM0751-1 | <i>Electrochemistry</i> - Loïc QUINTON - [10h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0748-1 - Chimie générale                                                                                                                                                                                                                                                                                                  | B2 | Q2 | 20 | 10 | [+] | 4 |  |  |
| BIOL2009-1 | <i>Microbiology</i> - François BEAUFAY                                                                                                                                                                                                                                                                                                                                                                           | B2 | Q2 | 24 | 20 | -   | 4 |  |  |
| CHIM0706-1 | <i>Chemistry, the environment and society</i> - Caroline COLLETTE, Gauthier EPPE, Catherine HENRIST, JeanChristophe MONBALIU - [4h Mon. WS, 0,5d Vis.]<br><b>Prerequisite :</b><br>LANG2967-3 - Anglais : introduction<br><b>Corequisite :</b><br>LANG0076-1 - Anglais 1                                                                                                                                         | B2 | Q2 | 12 | -  | [+] | 2 |  |  |
| LANG0076-1 | <i>English 1</i> (english language) - Clara BRERETON, Daphné BUI<br><b>Prerequisite :</b><br>LANG2967-3 - Anglais : introduction                                                                                                                                                                                                                                                                                 | B2 | TA | 45 | -  | -   | 4 |  |  |
| CHIM9287-1 | <i>Theoretical and quantum chemistry</i> - Françoise REMACLE - [15h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0704-1 - Chimie théorique                                                                                                                                                                                                                                                                           | B3 | Q1 | 30 | 20 | [+] | 4 |  |  |
| CHIM9288-1 | <i>Spectroscopy and statistical thermodynamics elements</i> - Bernard LEYH - [20h Mon. WS]<br><b>Prerequisite :</b><br>CHIM9285-1 - Cinétique chimique, introduction à la spectroscopie et théorie des groupes                                                                                                                                                                                                   | B3 | Q1 | 30 | -  | [+] | 4 |  |  |
| CHIM0278-1 | <i>Organic chemistry III</i> - Lionel DELAUDE - [15h Mon. WS]<br><b>Prerequisite :</b><br>CHIM0205-2 - Chimie organique I<br>CHIM9283-2 - Chimie organique II                                                                                                                                                                                                                                                    | B3 | Q1 | 30 | 55 | [+] | 7 |  |  |
| CHIM9289-1 | <i>Analytical chemistry III - Physical methods</i><br>- <i>Physico-chemical analysis methods</i> - Gauthier EPPE<br>- <i>Electrochemical analysis methods</i> - Gauthier EPPE<br>- <i>Practical work and tutorials</i> - Gauthier EPPE - [15h Mon. WS]<br><b>Prerequisite :</b><br>CHIM9284-1 - Chimie analytique I - Méthodes chimiques d'analyse<br>CHIM9286-1 - Chimie analytique II - Méthodes de séparation | B3 | Q1 | 15 | -  | -   | 8 |  |  |
| CHIM0678-1 | <i>Biochemistry</i> - André MATAGNE<br><b>Prerequisite :</b><br>BIOL2009-1 - Microbiologie<br>BIOL0870-1 - Biologie                                                                                                                                                                                                                                                                                              | B3 | Q1 | 30 | -  | -   | 3 |  |  |
| CHIM9291-1 | <i>Structural analysis</i> - Christian DAMBLON, Loïc QUINTON - [25h Mon. WS]<br><b>Prerequisite :</b><br>CHIM9285-1 - Cinétique chimique, introduction à la spectroscopie et théorie des groupes                                                                                                                                                                                                                 | B3 | Q2 | 20 | -  | [+] | 4 |  |  |
| CHIM0209-2 | <i>Inorganic chemistry</i> - Bénédicte VERTRUYEN - [8h Mon. WS]<br><b>Prerequisite :</b><br>CHIM9286-1 - Chimie analytique II - Méthodes de séparation                                                                                                                                                                                                                                                           | B3 | Q2 | 30 | 70 | [+] | 8 |  |  |
| CHIM0283-4 | <i>Chemistry of the macromolecules</i> - Christine JÉRÔME                                                                                                                                                                                                                                                                                                                                                        | B3 | Q2 | 20 | 20 | -   | 4 |  |  |
| PHYS0968-1 | <i>Signal processing</i> - Alejandro SILHANEK                                                                                                                                                                                                                                                                                                                                                                    | B3 | Q2 | 25 | 20 | -   | 4 |  |  |

#### Prerequisite :

MATH2014-1 - Compléments de mathématique

|            |                                                                                                                                   |    |    |   |     |   |   |
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| CHIM9293-1 | <i>Spectroscopy integrated laboratory</i> - Christian DAMBLON, Gauthier EPPE, Bernard LEYH, JeanChristophe MONBALIU, Loïc QUINTON | B3 | Q2 | - | 100 | - | 6 |
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#### Prerequisite :

CHIM9283-1 - Chimie organique II

CHIM9283-2 - Chimie organique II

#### Corequisite :

CHIM9288-1 - Spectroscopie et éléments de thermodynamique statistique

CHIM9289-1 - Chimie analytique III - Méthodes physiques

CHIM9291-1 - Analyse structurale

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| CHIM9294-1 | <i>Research projects and scientific communication</i> - Caroline COLLETTE, JeanChristophe MONBALIU, Damien SLUYSMANS - [30h Internship] | B3 | Q2 | 5 | - | [+] | 2 |
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| PHIL0201-1 | <i>Elements of sciences philosophy</i> - Pieter THYSSEN | B3 | Q2 | 15 | - | - | 2 |
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| LANG0077-1 | <i>English 2 (english language)</i> - Clara BRERETON | B3 | TA | 45 | - | - | 4 |
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#### Prerequisite :

LANG0076-1 - Anglais 1

#### Optional free courses (B2 : 4Cr)

|            |                                                                             |    |    |   |    |   |   |
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| OCEA0053-1 | <i>Study of Oceans and Coastal Management</i> - Sylvie GOBERT, Anne GOFFART | B2 | Q2 | - | 40 | - | 4 |
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#### Learning support activities (B1 : 1Cr)

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

Cross-disciplinary activities

|            |                                                                                                                                     |    |    |   |   |     |   |
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| IREM0009-1 | <i>Hebdo MethodO: additional support linked to the context of repeating a year</i> - Sylviane HUBERT, AnneFrance LANOTTE - [5h REM] | B1 | TA | - | - | [+] | - |
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| IREM0010-1 | <i>Getting B1 off to a good start</i> - Sylviane HUBERT, AnneFrance LANOTTE - [2h REM] | B1 | Q1 | - | - | [+] | - |
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| 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 | - | - | [+] | - |
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| LREM0010-1 | <i>Taking stock of your skills in French (Q1)</i> - Samia HAMMAMI, Frédéric SAENEN - [15h REM] | B1 | Q1 | - | - | [+] | - |
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#### 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