# Cycle view of the study programme

| | | Bl | Or | Th | Pr | Au | Cr |
|---|---|---|---|---|---|---|---|
| **General courses (B1 : 30Cr)** | | | | | | | |
| SMEM0040-1 | *Research master thesis* - COLLÉGIALITÉ | B1 | TA | - | - | - | **28** |
| PHYS3014-1 | *Physics and chemistry of materials: complements* (english language) - [15h Proj.] | B1 | Q1 | 5 | - | [+] | **2** |
| **Specialised courses (B1 : 30Cr)** | | | | | | | |
| Courses totaling 30 credits have to be chosen among: (B1 : 30Cr) | | | | | | | |
| **Quantum materials: design and modelling** | | | | | | | |
| CHIM9227-1 | *Quantum Chemistry* (english language) - Françoise REMACLE | B1 | Q1 | 30 | 10 | - | **4** |
| PHYS3003-1 | *Physics of functional oxides* (english language) - Philippe GHOSEZ | B1 | Q1 | 20 | 10 | - | **4** |
| PHYS3023-1 | *Physics of magnetic materials* (english language) - Eric BOUSQUET | B1 | Q2 | 20 | 10 | - | **4** |
| CHIM0725-2 | *Modelling molecules and extended systems* (english language) - Françoise REMACLE (Odd years) | B1 | Q2 | 15 | - | - | **2** |
| PHYS0981-1 | *Quantum modelling of materials properties* (english language) - Philippe GHOSEZ | B1 | Q1 | 20 | 10 | - | **4** |
| CHIM9233-1 | *Molecular logic and quantum computing* (english language) - Françoise REMACLE (Even years) | B1 | Q2 | 15 | - | - | **2** |
| PHYS0988-1 | *Intrinsic and induced topological properties of matter* (english language) - Bertrand DUPÉ | B1 | Q2 | 20 | 10 | - | **4** |
| PHYS3140-1 | *Magnetism and superconductivity* (english language) - Bertrand DUPÉ | B1 | Q1 | 20 | 10 | - | **4** |
| **Functional materials and nanostructures: fabrication and characterization** | | | | | | | |
| CHIM9228-1 | *Macromolecular Chemistry* (english language) - Christine JÉRÔME | B1 | Q1 | 20 | 15 | - | **4** |
| CHIM9256-1 | *Inorganic materials and chemistry* (english language) - Nicolas SOMERS, Bénédicte VERTRUYEN - [15h Proj.] | B1 | Q1 | 15 | - | [+] | **4** |
| CHIM9230-1 | *Physical chemistry of nanostructures and single molecules* (english language) - AnneSophie DUWEZ | B1 | Q1 | 25 | - | - | **4** |
| PHYS3037-1 | *Nanofabrication : principles and techniques* (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK | B1 | Q2 | 25 | 20 | - | **5** |
| CHIM0752-1 | *Single-molecule approaches in biology and chemistry* (english language) - Damien SLUYSMANS | B1 | Q1 | 25 | - | - | **4** |
| CHIM9234-1 | *Polymers and environment, Part A* (english language) - Philippe LECOMTE | B1 | Q1 | 15 | - | - | **2** |
| CHIM9257-1 | *Introduction to solid state NMR, Part A* (english language) - Christian DAMBLON, Philippe LECOMTE | B1 | Q1 | 15 | - | - | **2** |
| PHYS0987-1 | *Physics of materials for energy* (english language) - Ngoc Duy NGUYEN - [15h Proj.] | B1 | Q1 | 20 | - | [+] | **4** |
| [...] | Up to 10 credits can be chosen as well from other study programmes organized by ULiège (choice to be validated by the local coordinator) | | | | | | |