

Cycle view of the study programme

| | | B1 | Or | Th | Pr | Au | Cr |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|
| General courses (B1 : 30Cr) | | | | | | | |
| SMEM0040-1 | <i>Research master thesis</i> - COLLÉGIALITÉ, N... | B1 | TA | - | - | - | 24 |
| PHYS3132-1 | <i>Intellectual property and open innovation in materials science</i> (english language) - Elodie NAVEAU | B1 | Q1 | 10 | 5 | - | 2 |
| STRA0048-1 | <i>Innovation project in advanced materials science</i> (english language) - COLLÉGIALITÉ | B1 | Q1 | 5 | 30 | - | 4 |
| Focus courses (B1 : 30Cr) | | | | | | | |
| Single focus (B1 : 30Cr) | | | | | | | |
| Research Focus (B1 : 30Cr) | | | | | | | |
| CHIM9227-1 | <i>Quantum Chemistry</i> (english language) - Françoise REMACLE | B1 | Q1 | 30 | 10 | - | 4 |
| PHYS3003-1 | <i>Physics of functional oxides</i> (english language) - Philippe GHOSEZ | B1 | Q1 | 20 | 10 | - | 4 |
| CHIM9228-1 | <i>Macromolecular Chemistry</i> (english language) - Christine JÉRÔME | B1 | Q1 | 20 | 15 | - | 4 |
| CHIM9256-1 | <i>Advanced solid state chemistry</i> (english language) - Bénédicte VERTRUYEN | B1 | Q1 | 30 | - | - | 4 |
| CHIM9230-1 | <i>Nanomaterials, (electro)synthesis and applications</i> (english language) - Christophe DETREMBLEUR, Christine JÉRÔME | B1 | Q1 | 25 | - | - | 4 |
| Specialised courses, including tutorial and practice | | | | | | | |
| Courses totaling 10 credits have to be chosen among : | | | | | | | |
| PHYS3014-1 | <i>Physics and chemistry of materials : complements</i> (english language) - COLLÉGIALITÉ | B1 | Q1 | 20 | - | - | 2 |
| PHYS3004-1 | <i>Physics of nanomaterials</i> (english language) - JeanYves RATY | B1 | Q1 | 20 | 10 | - | 4 |
| PHYS0980-1 | <i>Spectroscopy of materials</i> (english language) - Matthieu VERSTRAETE | B1 | Q1 | 20 | 10 | - | 4 |
| CHIM0725-2 | <i>Modelling molecules and extended systems, Partim A</i> (english language) - Bernard LEYH, Françoise REMACLE | B1 | Q1 | 30 | - | - | 4 |
| CHIM9233-1 | <i>Molecular logic</i> (english language) - Françoise REMACLE | - | Q2 | 25 | - | - | 2 |
| CHIM9234-1 | <i>Polymers and environment, Part A</i> (english language) - Philippe LECOMTE | B1 | Q1 | 15 | - | - | 2 |
| CHIM9257-1 | <i>Introduction to solid state NMR, Part A</i> (english language) - Christian DAMBLON, Philippe LECOMTE | B1 | Q1 | 15 | - | - | 2 |
| CHIM9266-1 | <i>Characterization of nanostructures by scanning probe techniques</i> (english language) - AnneSophie DUWEZ, Damien SLUYSMANS | B1 | Q1 | 15 | - | - | 2 |
| PHYS0981-1 | <i>Quantum modeling of materials properties</i> (english language) - Philippe GHOSEZ, Matthieu VERSTRAETE | B1 | Q1 | 20 | 10 | - | 4 |
| PHYS0982-1 | <i>Physics of semiconductors</i> (english language) - Ngoc Duy NGUYEN | B1 | Q1 | 15 | - | - | 2 |
| PHYS3023-1 | <i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET | B1 | Q2 | 20 | 10 | - | 4 |
| PHYS3037-1 | <i>Nanofabrication : principles and techniques</i> (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK | B1 | Q2 | 25 | 15 | - | 4 |
| PHYS0987-1 | <i>Physics of materials for energy</i> (english language) - Ngoc Duy NGUYEN, JeanYves RATY | B1 | Q1 | 30 | - | - | 4 |