

Vue bloc du programme des cours

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Bloc 1
General courses

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|------------|---|----|----|----|---|-----------|
| SMEM0040-1 | <i>Research master thesis</i> - COLLÉGIALITÉ | TA | - | - | - | 24 |
| PHYS3132-1 | <i>Intellectual property and open innovation in materials science</i> (anglais) - Elodie NAVEAU | Q1 | 10 | 5 | - | 2 |
| STRA0048-1 | <i>Innovation project in advanced materials science</i> (anglais) - COLLÉGIALITÉ | Q1 | 5 | 30 | - | 4 |

Focus courses
Single focus
Research Focus

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|------------|---|----|----|----|---|----------|
| CHIM9227-1 | <i>Quantum Chemistry</i> (anglais) - Françoise REMACLE | Q1 | 30 | 10 | - | 4 |
| PHYS3003-1 | <i>Physics of functional oxides</i> (anglais) - Philippe GHOSEZ | Q1 | 20 | 10 | - | 4 |
| CHIM9228-1 | <i>Macromolecular Chemistry</i> (anglais) - Christine JÉRÔME | Q1 | 20 | 15 | - | 4 |
| CHIM9256-1 | <i>Advanced solid state chemistry</i> (anglais) - Bénédicte VERTRUYEN | Q1 | 30 | - | - | 4 |
| CHIM9230-1 | <i>Nanomaterials: synthesis, properties and applications</i> (anglais) - AnneSophie DUWEZ, Christine JÉRÔME, Damien SLUYSMANS | Q1 | 25 | - | - | 4 |

Specialised courses, including tutorial and practice

Courses totaling 10 credits have to be chosen among :

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| PHYS3014-1 | <i>Physics and chemistry of materials : complements</i> (anglais) - COLLÉGIALITÉ | Q1 | 20 | - | - | 2 |
| PHYS3004-1 | <i>Physics of nanomaterials</i> (anglais) - JeanYves RATY | Q1 | 20 | 10 | - | 4 |
| PHYS0980-1 | <i>Spectroscopy of materials</i> (anglais) - Matthieu VERSTRAETE | Q1 | 20 | 10 | - | 4 |
| CHIM0725-2 | <i>Modelling molecules and extended systems, Partim A</i> (anglais) - Bernard LEYH, Françoise REMACLE | Q1 | 30 | - | - | 4 |
| CHIM9233-1 | <i>Molecular logic</i> (anglais) - Françoise REMACLE | Q2 | 25 | - | - | 2 |
| CHIM9234-1 | <i>Polymers and environment, Partim A</i> (anglais) - Philippe LECOMTE | Q1 | 15 | - | - | 2 |
| CHIM9257-1 | <i>Introduction to solid state NMR, Partim A</i> (anglais) - Christian DAMBLON, Philippe LECOMTE | Q1 | 15 | - | - | 2 |
| CHIM9266-1 | <i>Characterization of nanostructures by scanning probe techniques</i> (anglais) - AnneSophie DUWEZ, Damien SLUYSMANS | Q1 | 15 | - | - | 2 |
| PHYS0981-1 | <i>Quantum modeling of materials properties</i> (anglais) - Philippe GHOSEZ, Matthieu VERSTRAETE | Q1 | 20 | 10 | - | 4 |
| PHYS0982-1 | <i>Physics of semiconductors</i> (anglais) - Ngoc Duy NGUYEN | Q1 | 15 | - | - | 2 |
| PHYS3023-1 | <i>Physics of magnetic materials</i> (anglais) - Eric BOUSQUET | Q2 | 20 | 10 | - | 4 |
| PHYS3037-1 | <i>Nanofabrication : principles and techniques</i> (anglais) - Ngoc Duy NGUYEN, Alejandro SILHANEK | Q2 | 25 | 15 | - | 4 |
| PHYS0987-1 | <i>Physics of materials for energy</i> (anglais) - Ngoc Duy NGUYEN, JeanYves RATY | Q1 | 30 | - | - | 4 |
| PHYS0988-1 | <i>Intrinsic and induced topological properties of matter</i> (anglais) - Bertrand DUPÉ | Q2 | 20 | 10 | - | 4 |