

#### Cycle view of the study programme

B1 Or Th Pr Au Cr

#### Focus courses (B1 : 20Cr)

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: synthesis, properties and applications</i> (english language) - AnneSophie DUWEZ, Christine JÉRÔME, Damien SLUYSMANS	B1	Q1	25	-	-	4

#### Specialised courses, including tutorial and practice (B1 : 10Cr)

Courses totaling 10 credits have to be chosen among : (B1 : 10Cr)

PHYS3014-1	<i>Physics and chemistry of materials: complements</i> (english language) - COLLÉGIALITÉ - [15h Proj.]	B1	Q1	5	-	[+]	2
PHYS3004-1	<i>Physics of nanomaterials</i> (english language) - JeanYves RATY	B1	Q2	20	10	-	4
CHIM0725-2	<i>Modelling molecules and extended systems</i> (english language) - Françoise REMACLE	B1	Q1	15	-	-	2
CHIM9233-1	<i>Molecular logic and quantum computing</i> (english language) - Françoise REMACLE	B1	Q2	15	-	-	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 modelling of materials properties</i> (english language) - Philippe GHOSEZ	B1	Q1	20	10	-	4
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 - [15h Proj.]	B1	Q1	20	-	[+]	4
PHYS0988-1	<i>Intrinsic and induced topological properties of matter</i> (english language) - Bertrand DUPÉ	B1	Q2	20	10	-	4

#### General courses (B1 : 30Cr)

SMEM0040-1	<i>Research master thesis</i> - COLLÉGIALITÉ	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 - [30h Proj.]	B1	Q1	5	-	[+]	4