

#### Cycle view of the study programme

B1 Or Th Pr Au Cr

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

SMEM0040-1	<i>Research master thesis</i> - COLLÉGIALITÉ	B1	TA	-	-	-	<b>24</b>
PHYS3132-1	<i>Intellectual property and open innovation in materials science</i> (english language) - Elodie NAVEAU	B1	Q1	10	5	-	<b>2</b>
STRA0048-1	<i>Innovation project in advanced materials science</i> (english language) - COLLÉGIALITÉ	B1	Q1	5	30	-	<b>4</b>

#### 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	-	<b>4</b>
PHYS3003-1	<i>Physics of functional oxides</i> (english language) - Philippe GHOSEZ	B1	Q1	20	10	-	<b>4</b>
CHIM9228-1	<i>Macromolecular Chemistry</i> (english language) - Christine JÉRÔME	B1	Q1	20	15	-	<b>4</b>
CHIM9256-1	<i>Advanced solid state chemistry</i> (english language) - Bénédicte VERTRUYEN	B1	Q1	30	-	-	<b>4</b>
CHIM9230-1	<i>Nanomaterials: synthesis, properties and applications</i> (english language) - AnneSophie DUWEZ, Christine JÉRÔME, Damien SLUYSMANS	B1	Q1	25	-	-	<b>4</b>

#### 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	-	-	<b>2</b>
PHYS3004-1	<i>Physics of nanomaterials</i> (english language) - JeanYves RATY	B1	Q1	20	10	-	<b>4</b>
PHYS0980-1	(pas organisé en 2023-2024) <i>Spectroscopy of materials</i> (english language)	B1	Q1	20	10	-	<b>4</b>
CHIM0725-2	<i>Modelling molecules and extended systems</i> (english language) - Françoise REMACLE	B1	Q1	20	-	-	<b>2</b>
CHIM9233-1	<i>Molecular logic</i> (english language) - Françoise REMACLE	-	Q2	25	-	-	<b>2</b>
CHIM9234-1	<i>Polymers and environment, Part A</i> (english language) - Philippe LECOMTE	B1	Q1	15	-	-	<b>2</b>
CHIM9257-1	<i>Introduction to solid state NMR, Part A</i> (english language) - Christian DAMBLON, Philippe LECOMTE	B1	Q1	15	-	-	<b>2</b>
CHIM9266-1	<i>Characterization of nanostructures by scanning probe techniques</i> (english language) - AnneSophie DUWEZ, Damien SLUYSMANS	B1	Q1	15	-	-	<b>2</b>
PHYS0981-1	<i>Quantum modelling of materials properties</i> (english language) - Philippe GHOSEZ, Matthieu VERSTRAETE	B1	Q1	20	10	-	<b>4</b>
PHYS0982-1	<i>Physics of semiconductors</i> (english language) - Ngoc Duy NGUYEN	B1	Q1	15	-	-	<b>2</b>
PHYS3023-1	<i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET	B1	Q2	20	10	-	<b>4</b>
PHYS3037-1	<i>Nanofabrication : principles and techniques</i> (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK	B1	Q2	25	15	-	<b>4</b>
PHYS0987-1	<i>Physics of materials for energy</i> (english language) - Philippe GHOSEZ, Ngoc Duy NGUYEN	B1	Q1	30	-	-	<b>4</b>

PHYS0988-1 *Intrinsic and induced topological properties of matter* (english language) - Bertrand DUPÉ B1 Q2 20 10 - 4