

**Cycle view of the study programme**

	B1	Or	Th	Pr	Au	Cr
<b>General courses (B1 : 30Cr)</b>						
SMEM0040-1 <i>Research master thesis</i> - COLLÉGIALITÉ	B1	TA	-	-	-	28
PHYS3014-1 <i>Physics and chemistry of materials : complements</i> (english language) - COLLÉGIALITÉ	B1	Q1	20	-	-	2

**Specialised courses (B1 : 30Cr)**
**Single focus (B1 : 30Cr)**
**Research focus (B1 : 30Cr)**

Courses totaling 30 credits have to be chosen among: (B1 : 30Cr)

**Quantum materials: design and modelling**

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
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
PHYS3023-1 <i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET	B1	Q2	20	10	-	4
CHIM0725-2 <i>Modelling molecules and extended systems, Partim A</i> (english language) - Bernard LEYH, Françoise REMACLE	B1	Q1	30	-	-	4
PHYS0981-1 <i>Quantum modelling of materials properties</i> (english language) - Philippe GHOSEZ, Matthieu VERSTRAETE	B1	Q1	20	10	-	4
CHIM9233-1 <i>Molecular logic</i> (english language) - Françoise REMACLE	B1	Q2	25	-	-	2
PHYS0988-1 <i>Intrinsic and induced topological properties of matter</i> (english language) - Bertrand DUPÉ	B1	Q2	20	10	-	4

**Functional materials and nanostructures: fabrication and characterization**

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
PHYS3037-1 <i>Nanofabrication: principles and techniques</i> (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK - [15h Labo.]	B1	Q2	25	15	[+]	4
CHIM9266-1 <i>Characterization of nanostructures by scanning probe techniques</i> (english language) - AnneSophie DUWEZ, Damien SLUYSMANS	B1	Q1	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
PHYS0982-1 <i>Physics of semiconductors</i> (english language) - Ngoc Duy NGUYEN	B1	Q1	15	-	-	2
PHYS0987-1 <i>Physics of materials for energy</i> (english language) - Philippe GHOSEZ, Ngoc Duy NGUYEN	B1	Q1	30	-	-	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)