

## Block view of the study programme

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### Block 1

Coordinating institution : UCL

Admission and registration procedures should be carried out with the referring establishment.

Full link to the programme:

<https://uclouvain.be/prog-2023-nano2mc-programme>

### ULiege training offer

#### Common core courses

NANO0001-1	<i>Seminars on the ethical and socio-economic aspects of nanotechnology</i>	Q2	15	15	-	3
SMEM0038-1	<i>Final thesis - COLLÉGIALITÉ</i>	TA	-	-	-	27

#### Fundamental Phenomena

BIOC0724-1	<i>Chemistry of biological macromolecules</i>	Q2	20	-	-	2
ELEN0069-1	<i>Nanoelectronics / Optoelectronics (english language) - Benoît VANDERHEYDEN - [40h Proj.]</i>	Q2	30	-	[+]	5
PHYS3003-1	<i>Physics of functional oxides (english language) - Philippe GHOSEZ</i>	Q1	20	10	-	4
PHYS0988-1	<i>Intrinsic and induced topological properties of matter (english language) - Bertrand DUPÉ</i>	Q2	20	10	-	4

#### Nanofabrication, nanomanipulation, nanosynthesis

CHIM9230-1	<i>Nanomaterials: synthesis, properties and applications (english language) - AnneSophie DUWEZ, Christine JÉRÔME, Damien SLUYSMANS</i>	Q1	25	-	-	2
SYST0020-1	<i>Introduction to microsystems and microtechnology (english language) - Tristan GILET, JeanMichel REDOUTÉ - [4h Labo., 20h Proj.]</i>	Q2	24	18	[+]	5
CHIM0072-2	<i>Nanomaterials and divided materials engineering - Benoît HEINRICHS, Stéphanie LAMBERT</i>	Q1	15	15	-	3

#### Characterization

PHYS0982-1	<i>Physics of semiconductors (english language) - Ngoc Duy NGUYEN</i>	Q1	15	-	-	2
CHIM9266-1	<i>Characterization of nanostructures by scanning probe techniques (english language) - AnneSophie DUWEZ, Damien SLUYSMANS</i>	Q1	15	-	-	2
CHIM9236-1	<i>Microstructure of materials : characterization techniques, Part A - Catherine HENRIST</i>	Q2	15	-	-	2
PHYS3037-1	<i>Nanofabrication : principles and techniques (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK</i>	Q2	25	15	-	4

#### Simulations at the nanoscale

PHYS0981-1	<i>Quantum modelling of materials properties (english language) - Philippe GHOSEZ, Matthieu VERSTRAETE</i>	Q1	20	10	-	4
CHIM0725-2	<i>Modelling molecules and extended systems (english language) - Françoise REMACLE</i>	Q1	20	-	-	3
PHYS3004-1	<i>Physics of nanomaterials (english language) - JeanYves RATY</i>	Q1	20	10	-	4
PHYS0980-1	(pas organisé en 2023-2024) <i>Spectroscopy of materials (english language)</i>	Q1	20	10	-	4

#### Optional courses

CHIM9217-1	<i>Application of nanotechnology to develop new medicine</i>	Q2	10	-	-	1
CHIM9233-1	<i>Molecular logic (english language) - Françoise REMACLE</i>	Q2	25	-	-	2

MECA0008-1	<i>Microfluidics</i> (english language) - Tristan GILET - [16h Labo., 14h Proj.]	Q2	22	8	[+]	<b>5</b>
CHIM0433-1	<i>Proteomics</i>	Q2	20	10	-	<b>3</b>
PHYS0975-1	<i>Introduction to soft matter and complex systems</i> - Nicolas VANDEWALLE	Q1	30	-	-	<b>4</b>
PHYS3023-1	<i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET	Q2	20	10	-	<b>4</b>
CHIM0698-1	<i>Introduction to the Physical Chemistry of Nanomaterials</i> (english language) - Cédric GOMMES	Q2	20	10	-	<b>3</b>
PHYS0987-1	<i>Physics of materials for energy</i> (english language) - Philippe GHOSEZ, Ngoc Duy NGUYEN	Q1	30	-	-	<b>4</b>
PHYS0998-1	<i>Physics of superconductors</i> (english language) - Alejandro SILHANEK	Q2	15	-	-	<b>2</b>