

A single year

For further information, contact :

* the Faculty of Sciences, Philippe GHOSEZ - Philippe.Ghosez@ulg.ac.be

Refresher course

[...] Depending on the student's previous training and with the agreement of the council of studies, choose, if necessary, courses for a maximum of 9 credits among the following :

HULG2071-1	<i>Physical chemistry of surfaces</i> - Marjorie OLIVIER	14	10	-	2
HULG2072-1	<i>Chemistry of solid</i> - Eric GAIGNEAUX	52,5	-	-	5
HULG2073-1	<i>Electronic devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2074-1	<i>Optics and Lasers</i> - Philippe ANTOINE, Alain CORNET	30	10	-	5
HULG2075-1	<i>Polymer chemistry</i> - Yves GEERTS	-	-	-	3
HULG2076-1	<i>Physical chemistry of inorganic materials</i> - Stéphane GODET	-	-	-	3
HULG2077-1	<i>Condensed Matter Physics</i> - Michèle SFERRAZZA	-	-	-	3
BIOC0002-1	<i>Biochemistry</i> - Paulette CHARLIER	30	30	-	5
BIOC0209-3	<i>Chemistry of biological macromolecules</i> - Moreno GALLEN, André MATAGNE - [4h 60 Vis. Ind. Pl.]	40	40	[+]	9
BIOC0210-5	<i>Functional properties of biological macromolecules</i> - André MATAGNE - [10h Mon. 20 WS]	20	20	[+]	5
TECH0002-1	(pas organisé en 2013-2014) <i>Nanotechnology</i> Course programme for the institutions organising the complementary masters	30	-	-	3

Compulsory courses

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

Optional courses

With the agreement of the council of studies choose a module among the following :

Nanobiotechnology

[...] With the agreement of the council of studies choose basic training courses with at least 1 in each of the four above-mentioned discipline, for 8 to 15 credits :

Fundamental Phenomena

HULG2078-1	<i>Physico-chemistry of interfaces</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	-	-	2
HULG2079-1	<i>Molecular motors and stochastic processes</i> - Pierre GASPARD	-	-	-	3
BIOC0209-6	<i>Chemistry of biological macromolecules</i> - Moreno GALLEN, André MATAGNE	20	-	-	2
HULG2080-1	<i>Physics of soft matter</i> - Pascal DAMMAN	15	-	-	2

Nanofabrication - Nanomanipulation - Nanosynthesis

CHIM0646-1	<i>Physical chemistry of nanostructures</i> (english language) - AnneSophie DUWEZ	15	-	-	2
CHIM0088-1	<i>Nanomaterials, principles of synthesis and application</i> - Christophe DETREMBLEUR	15	-	-	2

Characterisation of nano-structures

HULG2081-1	<i>Electron microscopy, diffraction and EELS at the nanoscale</i> - JeanFrançois COLOMER, Luc HENRARD	15	15	-	3
HULG2082-1	<i>Microscopy and microanalysis, high resolution</i> - Norbert KRUSE	24	-	-	2
NANO0002-1	<i>Atomic force microscopy and related techniques</i> - AnneSophie DUWEZ	10	-	-	2
HULG2083-1	<i>Local probe microscopy</i> - Roberto LAZZARONI, Philippe LECLÈRE	15	15	-	3

Nanosimulation

CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	15	-	-	3
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[...] With the agreement of the council of studies choose specialisation courses for 6 to 22 credits among the following :

Specific training in nanotechnology

HULG2084-1	<i>Intermolecular interactions</i> - Catherine MICHAUX, Eric PERPETE	22,5	7,5	-	4
HULG2085-1	<i>Nanobiotechnology</i> - Yves DUFRÈNE, Christine DUPONT	52,5	-	-	5

HULG2086-1	<i>Macromolecular Nanotechnology</i> - Sophie DEMOUSTIER, JeanFrançois GOHY, Alain JONAS, Bernard NYSTEN	45	15	-	5
HULG2087-1	<i>Diagnostic and therapeutic applications of nanotechnology</i> - N...	20	10	-	3
HULG2088-1	<i>Physical membrane and biological systems</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	24	-	4
CHIM0654-2	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	10	-	-	2
CHIM9216-1	<i>The contribution of electrochemistry to macromolecular chemistry</i> - Christine JÉRÔME	10	-	-	1
CHIM9217-1	<i>Application of nanotechnology to develop new medicine</i> - Brigitte EVRARD, Géraldine PIEL	10	-	-	1
HULG2089-1	<i>Introduction to Nanotechnology</i> - Michel WAUTELET	15	-	-	2
Complementary training					
HULG2090-1	<i>Chemometrics</i> - Bernadette GOVAERTS	22,5	15	-	3
HULG2091-1	<i>Statistical Quality Control</i> - Anne DE FRENNE, Bernadette GOVAERTS	15	5	-	3
HULG2092-1	<i>Molecular and Biomolecular Engineering</i> - Kristin BARTIK	-	-	-	3
BIOC0720-1	<i>Structure of biological macromolecules</i> - Paulette CHARLIER - [5h Mon. WS]	15	20	[+]	4
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE20	10	-	-	3
Course programme for the institutions organising the complementary masters Other modules from the Advanced Master					

Nanochemistry

[...] With the agreement of the council of studies choose basic training courses with at least 1 in each of the four above-mentioned discipline, for 8 to 15 credits :

Fundamental Phenomena

HULG2093-1	<i>Physical properties of nanoparticles and nanostructures</i> - Benoît CHAMPAGNE, Luc HENRARD	22,5	7,5	-	4
HULG2078-1	<i>Physico-chemistry of interfaces</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	-	-	2
HULG2079-1	<i>Molecular motors and stochastic processes</i> - Pierre GASPARD	-	-	-	3
BIOC0209-6	<i>Chemistry of biological macromolecules</i> - Moreno GALLEN, André MATAGNE	20	-	-	2
HULG2080-1	<i>Physics of soft matter</i> - Pascal DAMMAN	15	-	-	2

Nanofabrication - Nanomanipulation - Nanosynthesis

HULG2094-1	<i>Nanostructured materials</i> - MariePaule DEPLANCKE, Stéphane GODET	-	-	-	2
CHIM0646-1	<i>Physical chemistry of nanostructures</i> (english language) - AnneSophie DUWEZ	15	-	-	2
CHIM0088-1	<i>Nanomaterials, principles of synthesis and application</i> - Christophe DETREMBLEUR	15	-	-	2
HULG2095-1	<i>Polymer nanocomposite materials</i> - Philippe DUBOIS	15	-	-	2

Characterisation of nano-structures

HULG2081-1	<i>Electron microscopy, diffraction and EELS at the nanoscale</i> - JeanFrançois COLOMER, Luc HENRARD	15	15	-	3
HULG2096-1	<i>Characterization of materials surface</i> - Yves DUFRÈNE, Christine DUPONT, Eric GAIGNEAUX	52,5	-	-	5
HULG2097-1	<i>Analysis and processing of solid surfaces</i> - Patrick BERTRAND, Bernard NYSTEN	37,5	15	-	4
HULG2082-1	<i>Microscopy and microanalysis, high resolution</i> - Norbert KRUSE	24	-	-	2
NANO0002-1	<i>Atomic force microscopy and related techniques</i> - AnneSophie DUWEZ	10	-	-	2
HULG2083-1	<i>Local probe microscopy</i> - Roberto LAZZARONI, Philippe LECLÈRE	15	15	-	3

Nanosimulation

HULG2098-1	<i>Multi-scale simulation in nanoscience</i> - Benoît CHAMPAGNE, Luc HENRARD	15	15	-	4
CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	15	-	-	3

[...] With the agreement of the council of studies choose specialisation courses for 6 to 22 credits among the following :

Specific training in nanotechnology

HULG2084-1	<i>Intermolecular interactions</i> - Catherine MICHAUX, Eric PERPETE	22,5	7,5	-	4
HULG2085-1	<i>Nanobiotechnology</i> - Yves DUFRÈNE, Christine DUPONT	52,5	-	-	5
HULG2086-1	<i>Macromolecular Nanotechnology</i> - Sophie DEMOUSTIER, JeanFrançois GOHY, Alain JONAS, Bernard NYSTEN	45	15	-	5
HULG2099-1	<i>Inorganic solids and nanostructured materials</i> - Norbert KRUSE, François RENIERS	-	-	-	2
HULG2100-1	<i>Organic solids and supramolecular assemblies</i> - Yves GEERTS	24	-	-	2
HULG2101-1	<i>Structure and reactivity of surfaces</i> - Claudine HERMAN, Norbert KRUSE	24	-	-	2
HULG2114-1	<i>Quantum theory of solids and surfaces</i> - Pierre GASPARD	-	-	-	2
HULG2088-1	<i>Physical membrane and biological systems</i> - Michel MARESCHAL,	24	24	-	4

	FERRAZZA				
HULG2103-1	<i>Surface Physics and Surface Characterization</i> - David Franklin OGLETRÉE	24	12	-	3
CHIM0654-2	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	10	-	-	2
CHIM9216-1	<i>The contribution of electrochemistry to macromolecular chemistry</i> - Christine JÉRÔME	10	-	-	1
CHIM0089-1	<i>Molecular logic</i> - Françoise REMACLE	15	-	-	2
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON	20	10	-	3
HULG2089-1	<i>Introduction to Nanotechnology</i> - Michel WAUTELET	15	-	-	2
Complementary training					
HULG2090-1	<i>Chemometrics</i> - Bernadette GOVAERTS	22,5	15	-	3
HULG2104-1	<i>Principles of heterogeneous catalysis</i> - Eric GAIGNEAUX	52,5	-	-	5
HULG2091-1	<i>Statistical Quality Control</i> - Anne DE FRENNE, Bernadette GOVAERTS	15	5	-	3
HULG2092-1	<i>Molecular and Biomolecular Engineering</i> - Kristin BARTIK	-	-	-	3
BIOC0720-1	<i>Structure of biological macromolecules</i> - Paulette CHARLIER - [5h Mon. WS]	15	20	[+]	4
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	20	10	-	3
CHIM0637-3	<i>Chemistry of materials, Inorganic materials</i> (english language) - Bénédicte VERTRUYEN	20	-	-	2
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	20	10	-	3
Course programme for the institutions organising the complementary masters Other modules from the Advanced Master					

Nanoelectronics

[...] With the agreement of the council of studies choose basic training courses with at least 1 in each of the four above-mentioned discipline, for 8 to 15 credits :

Fundamental Phenomena

HULG2093-1	<i>Physical properties of nanoparticles and nanostructures</i> - Benoît CHAMPAGNE, Luc HENRARD	22,5	7,5	-	4
HULG2105-1	<i>Nano-electronics</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2106-1	<i>Physics of nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	37,5	22,5	-	5
HULG2107-1	<i>Nanophysics</i> - Pierre GASPARD, Marc HOU	-	-	-	3
ELEN0069-1	<i>Nanoelectronics / Optoelectronics</i> - Benoît VANDERHEYDEN	30	30	-	5

Nanofabrication - Nanomanipulation - Nanosynthesis

HULG2108-1	<i>Techniques of micro-and nanofabrication</i> - Vincent BAYOT, Denis FLANDRE, Laurent FRANCIS, JeanPierre RASKIN	30	30	-	5
CHIM0646-1	<i>Physical chemistry of nanostructures</i> (english language) - AnneSophie DUWEZ	15	-	-	2

Characterisation of nano-structures

HULG2081-1	<i>Electron microscopy, diffraction and EELS at the nanoscale</i> - JeanFrançois COLOMER, Luc HENRARD	15	15	-	3
HULG2109-1	<i>Advanced electronic devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2082-1	<i>Microscopy and microanalysis, high resolution</i> - Norbert KRUSE	24	-	-	2
NANO0002-1	<i>Atomic force microscopy and related techniques</i> - AnneSophie DUWEZ	10	-	-	2

Nanosimulation

HULG2098-1	<i>Multi-scale simulation in nanoscience</i> - Benoît CHAMPAGNE, Luc HENRARD	15	15	-	4
CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	15	-	-	3

[...] With the agreement of the council of studies choose specialisation courses for 6 to 22 credits among the following :

Specific training in nanotechnology

HULG2110-1	<i>Special Electronic Devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2111-1	<i>Design of Micro and Nanosystems</i> - Denis FLANDRE, Laurent FRANCIS, Thomas PARDOEN, JeanPierre RASKIN	30	30	-	5
HULG2112-1	<i>Transport phenomena in solids and nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	30	30	-	5
HULG2113-1	<i>Lasers and Applications</i> - N...	45	15	-	6
HULG2114-1	<i>Quantum theory of solids and surfaces</i> - Pierre GASPARD	-	-	-	2
CHIM0089-1	<i>Molecular logic</i> - Françoise REMACLE	15	-	-	2
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON	20	10	-	3
HULG2089-1	<i>Introduction to Nanotechnology</i> - Michel WAUTELET	15	-	-	2

Complementary training

HULG2090-1	<i>Chemometrics</i> - Bernadette GOVAERTS	22,5	15	-	3
HULG2091-1	<i>Statistical Quality Control</i> - Anne DE FRENNE, Bernadette GOVAERTS	15	5	-	3
HULG2115-1	<i>Microfabrication processes</i> - Pierre LAMBERT	-	-	-	2
HULG2116-1	<i>Micro tech components</i> - Pierre LAMBERT	-	-	-	3

Course programme for the institutions organising the complementary masters
Other modules from the Advanced Master

Nanomaterials

[...] With the agreement of the council of studies choose basic training courses with at least 1 in each of the four above-mentioned discipline, for 8 to 15 credits :

Fundamental Phenomena

HULG2093-1	<i>Physical properties of nanoparticles and nanostructures</i> - Benoît CHAMPAGNE, Luc HENRARD	22,5	7,5	-	4
HULG2105-1	<i>Nano-electronics</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2106-1	<i>Physics of nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	37,5	22,5	-	5
HULG2078-1	<i>Physico-chemistry of interfaces</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	-	-	2
HULG2107-1	<i>Nanophysics</i> - Pierre GASPARD, Marc HOU	-	-	-	3
HULG2079-1	<i>Molecular motors and stochastic processes</i> - Pierre GASPARD	-	-	-	3
BIOC0209-6	<i>Chemistry of biological macromolecules</i> - Moreno GALLEN, André MATAGNE	20	-	-	2
ELEN0069-1	<i>Nanoelectronics / Optoelectronics</i> - Benoît VANDERHEYDEN	30	30	-	5
HULG2080-1	<i>Physics of soft matter</i> - Pascal DAMMAN	15	-	-	2

Nanofabrication - Nanomanipulation - Nanosynthesis

HULG2108-1	<i>Techniques of micro-and nanofabrication</i> - Vincent BAYOT, Denis FLANDRE, Laurent FRANCIS, JeanPierre RASKIN	30	30	-	5
HULG2094-1	<i>Nanostructured materials</i> - MariePaule DEPLANCKE, Stéphane GODET	-	-	-	2
CHIM0646-1	<i>Physical chemistry of nanostructures (english language)</i> - AnneSophie DUWEZ	15	-	-	2
CHIM0088-1	<i>Nanomaterials, principles of synthesis and application</i> - Christophe DETREMBLEUR	15	-	-	2
HULG2095-1	<i>Polymer nanocomposite materials</i> - Philippe DUBOIS	15	-	-	2

Characterisation of nano-structures

HULG2081-1	<i>Electron microscopy, diffraction and EELS at the nanoscale</i> - JeanFrançois COLOMER, Luc HENRARD	15	15	-	3
HULG2096-1	<i>Characterization of materials surface</i> - Yves DUFRÈNE, Christine DUPONT, Eric GAIGNEAUX	52,5	-	-	5
HULG2109-1	<i>Advanced electronic devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2097-1	<i>Analysis and processing of solid surfaces</i> - Patrick BERTRAND, Bernard NYSTEN	37,5	15	-	4
HULG2082-1	<i>Microscopy and microanalysis, high resolution</i> - Norbert KRUSE	24	-	-	2
NANO0002-1	<i>Atomic force microscopy and related techniques</i> - AnneSophie DUWEZ	10	-	-	2
HULG2083-1	<i>Local probe microscopy</i> - Roberto LAZZARONI, Philippe LECLÈRE	15	15	-	3

Nanosimulation

HULG2098-1	<i>Multi-scale simulation in nanoscience</i> - Benoît CHAMPAGNE, Luc HENRARD	15	15	-	4
HULG2117-1	<i>Atomistic and nanoscopic simulations</i> - JeanChristophe CHARLIER, Xavier GONZE	30	30	-	5
HULG2118-1	<i>Microscopic simulation methods</i> - Michel MARESCHAL	-	-	-	4
MECA0480-1	<i>Modelling and simulation of continuum approaches in nanomechanical materials</i> - Laurent STAINIER	30	30	-	3
CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	15	-	-	3
PHYS0950-1	<i>Nanoparticles and low-dimensional systems (english language)</i> - JeanYves RATY	20	10	-	3

[...] With the agreement of the council of studies choose specialisation courses for 6 to 22 credits among the following :

Specific training in nanotechnology

HULG2085-1	<i>Nanobiotechnology</i> - Yves DUFRÈNE, Christine DUPONT	52,5	-	-	5
HULG2110-1	<i>Special Electronic Devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2086-1	<i>Macromolecular Nanotechnology</i> - Sophie DEMOUSTIER, JeanFrançois GOHY, Alain JONAS, Bernard NYSTEN	45	15	-	5
HULG2112-1	<i>Transport phenomena in solids and nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	30	30	-	5
HULG2113-1	<i>Lasers and Applications</i> - N...	45	15	-	6

HULG2099-1	<i>Inorganic solids and nanostructured materials</i> - Norbert KRUSE, François RENIERS	-	-	-	2
HULG2100-1	<i>Organic solids and supramolecular assemblies</i> - Yves GEERTS	24	-	-	2
HULG2101-1	<i>Structure and reactivity of surfaces</i> - Claudine HERMAN, Norbert KRUSE	24	-	-	2
HULG2114-1	<i>Quantum theory of solids and surfaces</i> - Pierre GASPARD	-	-	-	2
HULG2088-1	<i>Physical membrane and biological systems</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	24	-	4
HULG2103-1	<i>Surface Physics and Surface Characterization</i> - David Franklin OGLETRÉE	24	12	-	3
CHIM0654-2	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	10	-	-	2
CHIM9216-1	<i>The contribution of electrochemistry to macromolecular chemistry</i> - Christine JÉRÔME	10	-	-	1
CHIM0089-1	<i>Molecular logic</i> - Françoise REMACLE	15	-	-	2
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON	20	10	-	3
HULG2089-1	<i>Introduction to Nanotechnology</i> - Michel WAUTELET	15	-	-	2
Complementary training					
HULG2090-1	<i>Chemometrics</i> - Bernadette GOVAERTS	22,5	15	-	3
HULG2104-1	<i>Principles of heterogeneous catalysis</i> - Eric GAIGNEAUX	52,5	-	-	5
HULG2091-1	<i>Statistical Quality Control</i> - Anne DE FRENNE, Bernadette GOVAERTS	15	5	-	3
HULG2115-1	<i>Microfabrication processes</i> - Pierre LAMBERT	-	-	-	2
HULG2116-1	<i>Micro tech components</i> - Pierre LAMBERT	-	-	-	3
BIOC0720-1	<i>Structure of biological macromolecules</i> - Paulette CHARLIER - [5h Mon. WS]	15	20	[+]	4
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	20	10	-	3
CHIM0637-3	<i>Chemistry of materials, Inorganic materials</i> (english language) - Bénédicte VERTRUYEN	20	-	-	2
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	20	10	-	3
Course programme for the institutions organising the complementary masters Other modules from the Advanced Master					

Nanophysics

[...] With the agreement of the council of studies choose basic training courses with at least 1 in each of the four above-mentioned discipline, for 8 to 15 credits :

Fundamental Phenomena

HULG2093-1	<i>Physical properties of nanoparticles and nanostructures</i> - Benoît CHAMPAGNE, Luc HENRARD	22,5	7,5	-	4
HULG2105-1	<i>Nano-electronics</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2106-1	<i>Physics of nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	37,5	22,5	-	5
HULG2078-1	<i>Physico-chemistry of interfaces</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	-	-	2
HULG2107-1	<i>Nanophysics</i> - Pierre GASPARD, Marc HOU	-	-	-	3
HULG2079-1	<i>Molecular motors and stochastic processes</i> - Pierre GASPARD	-	-	-	3
ELEN0069-1	<i>Nanoelectronics / Optoelectronics</i> - Benoît VANDERHEYDEN	30	30	-	5
HULG2080-1	<i>Physics of soft matter</i> - Pascal DAMMAN	15	-	-	2

Nanofabrication - Nanomanipulation - Nanosynthesis

HULG2108-1	<i>Techniques of micro-and nanofabrication</i> - Vincent BAYOT, Denis FLANDRE, Laurent FRANCIS, JeanPierre RASKIN	30	30	-	5
CHIM0646-1	<i>Physical chemistry of nanostructures</i> (english language) - AnneSophie DUWEZ	15	-	-	2

Characterisation of nano-structures

HULG2081-1	<i>Electron microscopy, diffraction and EELS at the nanoscale</i> - JeanFrançois COLOMER, Luc HENRARD	15	15	-	3
HULG2097-1	<i>Analysis and processing of solid surfaces</i> - Patrick BERTRAND, Bernard NYSTEN	37,5	15	-	4
HULG2082-1	<i>Microscopy and microanalysis, high resolution</i> - Norbert KRUSE	24	-	-	2
NANO0002-1	<i>Atomic force microscopy and related techniques</i> - AnneSophie DUWEZ	10	-	-	2

Nanosimulation

HULG2098-1	<i>Multi-scale simulation in nanoscience</i> - Benoît CHAMPAGNE, Luc HENRARD	15	15	-	4
HULG2117-1	<i>Atomistic and nanoscopic simulations</i> - JeanChristophe CHARLIER, Xavier GONZE	30	30	-	5
HULG2118-1	<i>Microscopic simulation methods</i> - Michel MARESCHAL	-	-	-	4
CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	15	-	-	3
PHYS0950-1	<i>Nanoparticles and low-dimensional systems</i> (english language) - JeanYves RATY	20	10	-	3

[...] With the agreement of the council of studies choose specialisation courses for 6 to

22 credits among the following :

Specific training in nanotechnology

HULG2110-1	<i>Special Electronic Devices</i> - Vincent BAYOT, Denis FLANDRE, JeanPierre RASKIN	30	30	-	5
HULG2086-1	<i>Macromolecular Nanotechnology</i> - Sophie DEMOUSTIER, JeanFrançois GOHY, Alain JONAS, Bernard NYSTEN	45	15	-	5
HULG2112-1	<i>Transport phenomena in solids and nanostructures</i> - JeanChristophe CHARLIER, Xavier GONZE, Luc PIRAUX	30	30	-	5
HULG2113-1	<i>Lasers and Applications</i> - N...	45	15	-	6
HULG2101-1	<i>Structure and reactivity of surfaces</i> - Claudine HERMAN, Norbert KRUSE	24	-	-	2
HULG2114-1	<i>Quantum theory of solids and surfaces</i> - Pierre GASPARD	-	-	-	2
HULG2088-1	<i>Physical membrane and biological systems</i> - Michel MARESCHAL, Michèle SFERRAZZA	24	24	-	4
HULG2103-1	<i>Surface Physics and Surface Characterization</i> - David Franklin OGLETRÉE	24	12	-	3
CHIM0089-1	<i>Molecular logic</i> - Françoise REMACLE	15	-	-	2
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON	20	10	-	3
HULG2089-1	<i>Introduction to Nanotechnology</i> - Michel WAUTELET	15	-	-	2

Complementary training

HULG2090-1	<i>Chemometrics</i> - Bernadette GOVAERTS	22,5	15	-	3
HULG2091-1	<i>Statistical Quality Control</i> - Anne DE FRENNE, Bernadette GOVAERTS	15	5	-	3
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	20	10	-	3
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	20	10	-	3

Course programme for the institutions organising the complementary masters
Other modules from the Advanced Master