

Two-year master program

First Year

Compulsory courses

PHYS0240-2	<i>Biophysics</i> - Maryse HOEBEKE	Q2	30	15	-	5
PHYS0930-1	<i>Atomic Physics</i> - Thierry BASTIN	TA	30	15	-	5
PHYS0931-1	<i>Data processing</i> - Pierre MAGAIN		15	30	-	4

Optional courses

Choose one option from the following :

Fundamental 1 Option

SSTG0016-1	<i>Training sessions and personal work</i> - COLLÉGIALITÉ		15	45	-	6
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Choose courses, with the approval of the Jury, totalling 24 credits among :

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	-	-	4
PHYS2027-2	<i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	4
PHYS0094-1	<i>Multiphase flows and dynamic interfaces</i> - Hervé CAPS	Q2	20	10	-	4
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q2	20	-	-	4
SPAT0012-2	<i>General relativity, Part : Introduction</i> - Yves DE ROP	Q1	20	-	-	4
PHYS0934-1	<i>Coherent Optics and laser applications</i> - Serge HABRAKEN	Q1	15	20	-	4
PHYS0124-1	<i>Instrumental Optics I</i> - Serge HABRAKEN	Q1	20	15	-	4
PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	4
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ		20	10	-	4
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	4
PHYS0939-2	<i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	4
PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	4
PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO	TA	10	20	-	4
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	4
PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	4
PHYS0943-1	<i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE	Q2	15	5	-	4
PHYS3012-2	<i>Electronic and vibrational spectroscopies</i> (english language) - Matthieu VERSTRAETE		15	15	-	4
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	4
CHIM0202-2	<i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	4
SPAT0012-3	<i>General relativity, Part : Complement</i> - Yves DE ROP	TA	40	-	-	4
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	Q1	20	10	-	4
PHYS0235-2	<i>Introduction to quantum optics</i> - John MARTIN	Q2	25	-	-	4
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET		10	10	-	4
PHYS0950-1	<i>Nanoparticles and low-dimensional systems</i> (english language) - JeanYves RATY	Q1	20	10	-	4
PHYS0125-3	<i>Instrumental Optics II</i> - Serge HABRAKEN	Q2	25	30	-	4
PHYS3017-1	<i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.]		30	-	[+]	4
PHYS3013-1	<i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN	Q1	15	15	-	4
PHYS0970-1	<i>Physics of superconductors</i> - Alejandro SILHANEK	Q1	30	-	-	4
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q1	20	20	-	4
PHYS3020-1	<i>Digital tools of soft matter</i> - François LUDEWIG, Geoffroy LUMAY	Q2	15	15	-	4
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	4
PHYS3022-1	<i>Theory of magnetism</i> (english language) - Eric BOUSQUET		20	10	-	4
[...]	Up to 8 ECTS can be chosen in another study path or in another institution					

Option Medical Physics 1

PHYS0952-3	<i>Fundamental problems in physics related to radiology, radiotherapy and nuclear medicine</i>	TA				6
	- part : radiobiology - Christophe CHAMPION	10	-	-		
	- part : dosimetry - MarieThérèse HOORNAERT	20	-	-		
	- part : medical imaging - Alain SERET	25	5	-		
RADP0141-1	<i>Radioprotection</i>	Q2				5
	- Part a) Radioprotection techniques and complements - Véra PIRLET	30	15	-		
	- Part b) Legislation on radioprotection and the organisation of a radiotherapy, radiodiagnostic and nuclear medicine department - Véra PIRLET	10	-	-		
RADI2001-1	<i>Radioprotection : Hygiene problems, 1st year</i> - Roland HUSTINX	Q2	15	-	-	2
BIOL0007-1	<i>Tissue biology</i> - Marc THIRY	Q1	15	25	-	4
PHYL0644-1	<i>Human Anatomy and Physiology</i> - Pierre BONNET	Q2	30	-	-	3
ANAT0222-1	<i>Elements of Radiology</i> - N...	Q1	10	5	-	2
STAT0722-1	<i>Introduction to medical statistics</i> - Christophe PHILLIPS		10	5	-	2
CHIM0620-1	<i>Radiopharmaceutical Chemistry</i> - André LUXEN	Q1	20	10	-	3
PHYS0128-1	<i>Magnetic Resonance Imaging - the Basics</i> (english language) - Evelyne BALTEAU - [3d FW]	Q1	15	-	[+]	3

Choisir une 2e option parmi :

Fundamental 2 Option

Requisite

"Option fondamentale 1"

Choose courses, with the approval of the Jury, totalling 16 credits amongst :

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	-	-	4
PHYS2027-2	<i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	4
PHYS0094-1	<i>Multiphase flows and dynamic interfaces</i> - Hervé CAPS	Q2	20	10	-	4
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q2	20	-	-	4
SPAT0012-2	<i>General relativity, Part : Introduction</i> - Yves DE ROP	Q1	20	-	-	4
PHYS0934-1	<i>Coherent Optics and laser applications</i> - Serge HABRAKEN	Q1	15	20	-	4
PHYS0124-1	<i>Instrumental Optics I</i> - Serge HABRAKEN	Q1	20	15	-	4
PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	4
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ		20	10	-	4
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	4
PHYS0939-2	<i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	4
PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	4
PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO	TA	10	20	-	4
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	4
PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	4
PHYS0943-1	<i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE	Q2	15	5	-	4
PHYS3012-2	<i>Electronic and vibrational spectroscopies</i> (english language) - Matthieu VERSTRAETE		15	15	-	4
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	4
CHIM0202-2	<i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	4
SPAT0012-3	<i>General relativity, Part : Complement</i> - Yves DE ROP	TA	40	-	-	4
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	Q1	20	10	-	4
PHYS0235-2	<i>Introduction to quantum optics</i> - John MARTIN	Q2	25	-	-	4
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET		10	10	-	4
PHYS0950-1	<i>Nanoparticles and low-dimensional systems</i> (english language) - JeanYves RATY	Q1	20	10	-	4
PHYS0125-3	<i>Instrumental Optics II</i> - Serge HABRAKEN	Q2	25	30	-	4
PHYS3017-1	<i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.]		30	-	[+]	4
PHYS3013-1	<i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN	Q1	15	15	-	4
PHYS0970-1	<i>Physics of superconductors</i> - Alejandro SILHANEK	Q1	30	-	-	4
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q1	20	20	-	4
PHYS3020-1	<i>Digital tools of soft matter</i> - François LUDEWIG, Geoffroy LUMAY	Q2	15	15	-	4
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	4

PHYS3022-1 *Theory of magnetism* (english language) - Eric BOUSQUET 20 10 - 4

Option Medical Physics 2

SSTG0041-1 Requisite "Option physique médicale 1"
Placement in medical radiophysics - Claire BERNARD,
MarieThérèse HOORNAERT, Alain SERET - [12d Internship] Q2 2 - [+] 16

Second year

Compulsory course

SMEM0028-1 *Final thesis* - COLLÉGIALITÉ TA - - - 18

Optional courses

Choose one option from the following :

Fundamental 3 Option

Prerequisite "Option fondamentale 2"

Choose, in agreement with the Jury, courses not taken in the 1st year, totalling 12 ECTS from the following :

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	-	-	4
PHYS2027-2	<i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	4
PHYS0094-1	<i>Multiphase flows and dynamic interfaces</i> - Hervé CAPS	Q2	20	10	-	4
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q2	20	-	-	4
SPAT0012-2	<i>General relativity, Part : Introduction</i> - Yves DE ROP	Q1	20	-	-	4
PHYS0934-1	<i>Coherent Optics and laser applications</i> - Serge HABRAKEN	Q1	15	20	-	4
PHYS0124-1	<i>Instrumental Optics I</i> - Serge HABRAKEN	Q1	20	15	-	4
PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	4
PHYS0937-1	<i>Physical functional materials</i> (english language) - Philippe GHOSEZ		20	10	-	4
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	4
PHYS0939-2	<i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	4
PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	4
PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO	TA	10	20	-	4
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	4
PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	4
PHYS0943-1	<i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE	Q2	15	5	-	4
PHYS3012-2	<i>Electronic and vibrational spectroscopies</i> (english language) - Matthieu VERSTRAETE		15	15	-	4
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	4
CHIM0202-2	<i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	4
SPAT0012-3	<i>General relativity, Part : Complement</i> - Yves DE ROP	TA	40	-	-	4
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	Q1	20	10	-	4
PHYS0235-2	<i>Introduction to quantum optics</i> - John MARTIN	Q2	25	-	-	4
PHYS0948-1	<i>Microgravity</i> - Hervé CAPS, Nicolas VANDEWALLE - [3d FW]	Q2	10	20	[+]	4
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET		10	10	-	4
PHYS0950-1	<i>Nanoparticles and low-dimensional systems</i> (english language) - JeanYves RATY	Q1	20	10	-	4
PHYS0125-3	<i>Instrumental Optics II</i> - Serge HABRAKEN	Q2	25	30	-	4
PHYS3017-1	<i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.]		30	-	[+]	4
PHYS3013-1	<i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN	Q1	15	15	-	4
PHYS0970-1	<i>Physics of superconductors</i> - Alejandro SILHANEK	Q1	30	-	-	4
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q1	20	20	-	4
PHYS3020-1	<i>Digital tools of soft matter</i> - François LUDEWIG, Geoffroy LUMAY	Q2	15	15	-	4
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	4
PHYS3022-1	<i>Theory of magnetism</i> (english language) - Eric BOUSQUET		20	10	-	4

Option: Medical Physics 3

<u>Prerequisite</u>		"Option Physique médicale 2"				
QUAL0722-1	<i>Safety and quality assurance</i> - Eric LENAERTS	Q1	5	10	-	2
RADL0442-1	<i>Radiobiology and radiopathology elements</i> - Chantal HUMBLET, Philippe MARTINIVE	Q2	40	20	-	6
PHYS2024-1	<i>Transfer and co-registration of medical images</i> - Mohamed Ali BAHRI		15	-	-	2
CHIM0621-2	<i>Production and application of radioelements</i> - André LUXEN - [3d FW]	Q2	15	-	[+]	2

Choose one focus from the following :

Research Focus

Compulsory courses

STRA0030-1	<i>Final thesis complement</i> - COLLÉGIALITÉ	TA	-	-	-	11
PHYS0963-1	<i>Seminars</i> - COLLÉGIALITÉ		-	-	-	3

Optional courses

[...] In agreement with the Jury, choose from the ULg course programme complementary courses which have not yet been followed, for a total of 16 credits, a maximum of 12 of which must be outside the subject.

Teaching focus

Compulsory courses

AESS1222-1	<i>Special didactics in physics : course and exercises (1st part)</i> - Hervé CAPS, Maryse HOEBEKE		40	-	-	3
AESS1223-1	<i>Special didactics in physics : placements (1st part)</i> - <i>Observation placements</i> - Hervé CAPS, Maryse HOEBEKE - [10h Internship]		-	-	[+]	3
	- <i>Teaching placements</i> - Hervé CAPS, Maryse HOEBEKE - [20h Internship]		-	-	[+]	
	- <i>Reflexive practical work</i> - Hervé CAPS, Maryse HOEBEKE		-	5	-	
AESS2222-1	<i>Special didactics in physics : course and exercises (2nd part)</i> - Hervé CAPS, Maryse HOEBEKE		35	-	-	4
AESS2223-1	<i>Special didactics in physics : placements (2nd part)</i> - <i>Teaching placements</i> - Hervé CAPS, Maryse HOEBEKE - [20h Internship]		-	-	[+]	5
	- <i>Reflexive practical work</i> - Hervé CAPS, Maryse HOEBEKE		-	5	-	
	- <i>Extra-scholar teaching activities</i> - Hervé CAPS, Maryse HOEBEKE		-	10	-	
AESS0202-1	<i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship]	TA	30	10	[+]	4
AESS0246-1	<i>Analysis of scholastic institutions and key-players, educational policies</i> - Dominique LAFONTAINE	Q1	15	-	-	1
AESS0004-1	<i>Media education</i> - Jérémy HAMERS	Q1	15	-	-	1
AESS0248-1	<i>Elements of sociology of education</i> - JeanFrançois GUILLAUME	Q2	10	-	-	1
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA	Q2	25	-	-	2
AESS0143-1	<i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT	Q1	15	-	-	2
AESS0249-1	<i>Interdisciplinary seminar</i> - Annick FAGNANT	Q2	15	-	-	1
AESS0339-1	<i>Understand and manage the diversity of public schools</i> - Ariane BAYE	Q2	10	15	-	3

Professional Focus in Medical Radiological Physics

Compulsory courses

PHYS0954-3	<i>Fundamental problems in physics related to radiology, radiotherapy and nuclear medicine</i>	TA				14
	- <i>Special applications and techniques in radiotherapy</i> - MarieThérèse HOORNAERT		35	-	-	
	- <i>Special applications and techniques in radiodiagnosics</i> - Hilde BOSMANS		15	-	-	
	- <i>Special applications and techniques in nuclear medicine</i> - Claire BERNARD, Roland HUSTINX, Alain SERET		20	5	-	
	- <i>Computerized dosimetry in radiotherapy</i> - Eric LENAERTS		15	-	-	
	- <i>Internal dosimetry of radiopharmaceuticals (English)</i> - Klaus BACHER		15	-	-	
SSTG0015-2	<i>Training</i> - COLLÉGIALITÉ - [3mois Internship]	TA	-	-	[+]	16

One-year master program

Compulsory courses

PHYS0240-2	<i>Biophysics</i> - Maryse HOEBEKE	Q2	30	15	-	5
PHYS0930-1	<i>Atomic Physics</i> - Thierry BASTIN	TA	30	15	-	5
PHYS0931-1	<i>Data processing</i> - Pierre MAGAIN		15	30	-	4
SMEM0027-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	18

Optional courses

Choose courses totalling 28 credits, with the agreement of the jury, from the following :

Physics

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	-	-	4
PHYS2027-2	<i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	4
PHYS0094-1	<i>Multiphase flows and dynamic interfaces</i> - Hervé CAPS	Q2	20	10	-	4
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q2	20	-	-	4
SPAT0012-2	<i>General relativity, Part : Introduction</i> - Yves DE ROP	Q1	20	-	-	4
PHYS0934-1	<i>Coherent Optics and laser applications</i> - Serge HABRAKEN	Q1	15	20	-	4
PHYS0124-1	<i>Instrumental Optics I</i> - Serge HABRAKEN	Q1	20	15	-	4
PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	4
PHYS0937-1	<i>Physical functional materials (english language)</i> - Philippe GHOSEZ		20	10	-	4
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	4
PHYS0939-2	<i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	4
PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	4
PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO	TA	10	20	-	4
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	4
PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	4
PHYS0943-1	<i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE	Q2	15	5	-	4
PHYS3012-2	<i>Electronic and vibrational spectroscopies (english language)</i> - Matthieu VERSTRAETE		15	15	-	4
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	4
CHIM0202-2	<i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	4
SPAT0012-3	<i>General relativity, Part : Complement</i> - Yves DE ROP	TA	40	-	-	4
PHYS0945-1	<i>Complex fluids</i> - Nicolas VANDEWALLE	Q1	20	10	-	4
PHYS0235-2	<i>Introduction to quantum optics</i> - John MARTIN	Q2	25	-	-	4
PHYS0948-1	<i>Microgravity</i> - Hervé CAPS, Nicolas VANDEWALLE - [3d FW]	Q2	10	20	[+]	4
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET		10	10	-	4
PHYS0950-1	<i>Nanoparticles and low-dimensional systems (english language)</i> - JeanYves RATY	Q1	20	10	-	4
PHYS0125-3	<i>Instrumental Optics II</i> - Serge HABRAKEN	Q2	25	30	-	4
PHYS3017-1	<i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.]		30	-	[+]	4
PHYS3013-1	<i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN	Q1	15	15	-	4
PHYS0970-1	<i>Physics of superconductors</i> - Alejandro SILHANEK	Q1	30	-	-	4
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q1	20	20	-	4
PHYS3020-1	<i>Digital tools of soft matter</i> - François LUDEWIG, Geoffroy LUMAY	Q2	15	15	-	4
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	4
PHYS3022-1	<i>Theory of magnetism (english language)</i> - Eric BOUSQUET		20	10	-	4

Environmental management

ENVT0031-2	<i>Society / Environment</i> - Dorothée DENAYER, François MELARD	Q2	24	12	-	3
ENVT0030-2	<i>Managing the environment</i> - JeanMarie HAUGLUSTAINE, François MELARD, Pierre M. STASSART	Q2	24	12	-	3
ENVT0034-1	<i>Environmental data management</i> - Philippe ANDRE, AnneClaude ROMAIN, Bernard TYCHON	TA	12	12	-	2
ENVT0013-3	<i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Nathalie SEMAL	Q2	12	12	-	2
ENVT0848-3	<i>Impacts of human activities on ecosystems and including land use</i> - Dorothée DENAYER, Célia JOAQUIMJUSTO, Angélique LÉONARD, Roberto RENZONI	Q1	20	10	-	2

Notice : Students who choose the two courses from the "Environmental

Science and Management" module will have direct access to the 2nd year of the Masters in Environmental Science and Management, organised on the Arlon campus. Other students will also have access to the 2nd year of the Masters in Environmental Science and Management, on the condition that they take courses corresponding to these 12 credits in addition to the 60 credits taken during this study year.

[...] Up to 8 ECTS can be chosen in another study path or in another institution, except if the 12 ECTS of the module "Environmental Management" have already been chosen

Master Erasmus Mundus FAME : Nanomaterials and Modelling

General courses

CHIM9227-1	<i>Quantum Chemistry</i> (english language) - Françoise REMACLE	Q1	30	10	-	4
PHYS3003-1	<i>Functional Materials : theory and modeling</i> (english language) - Philippe GHOSEZ		20	10	-	4
CHIM9228-1	<i>Macromolecular Chemistry</i> (english language) - Christine JÉRÔME	Q1	20	15	-	4
CHIM9256-1	<i>Advanced solid state chemistry</i> - Bénédicte VERTRUYEN	Q1	30	-	-	4
CHIM9230-1	<i>Nanomaterials, (electro)synthesis and applications</i> (english language) - Christophe DETREMBLEUR, Christine JÉRÔME	Q1	30	-	-	4

Specialised courses, including tutorial and practice

Courses totaling 13 ECTS have to be chosen among :

PHYS3014-1	<i>Physics and chemistry of materials : complements</i> - COLLÉGIALITÉ	Q1	20	-	-	2
PHYS3004-1	<i>Nanomaterials : theory and modeling</i> (english language) - JeanYves RATY	Q1	20	10	-	4
PHYS3015-1	<i>Electronic and vibrational spectroscopies</i> - Matthieu VERSTRAETE		15	15	-	4
CHIM9231-1	<i>Characterization of Biomaterials</i> (english language) - Edwin DE PAUW, MarieClaire GILLET	Q1	15	15	-	4
CHIM9232-1	<i>Biohybrids: theory and modeling</i> (english language) - Françoise REMACLE	Q1	30	-	-	4
CHIM9233-1	<i>Molecular logic</i> (english language) - Françoise REMACLE	Q1	15	-	-	2
CHIM9234-1	<i>Polymers and environment</i> - Philippe LECOMTE		15	-	-	2
CHIM9257-1	<i>Introduction to solid state NMR</i> - Christian DAMBLON, Philippe LECOMTE, Bénédicte VERTRUYEN		15	-	-	2
CHIM9266-1	<i>Characterization of nanostructures by scanning probe techniques</i> (english language) - AnneSophie DUWEZ	Q1	15	-	-	2
PHYS3016-1	<i>Physical characterization of materials and interfaces</i> (english language) - Ngoc Duy NGUYEN	Q1	15	15	-	4
PHYS0096-1	<i>Physics of superconductors</i> - Alejandro SILHANEK	Q1	30	-	-	4
PHYS3023-1	<i>Theory of magnetism</i> (english language) - Eric BOUSQUET		20	10	-	4