

Or Th Pr Au Cr

A single 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
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</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
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.

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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