Université de Liège

Study programmes 2011-2012
Faculty of Sciences
Master in Mathematical Sciences

A single year

Compulsory courses

SMEM0011-1	*Final thesis* - COLLÉGIALITÉ	-	-	-	**16**

Optional courses

With the approval of the Board of Studies in Mathematics, choose courses totaling 32 ECTS from the first list below :

First list

MATH0463-1	*Functional Analysis I* - Jean-Pierre SCHNEIDERS - [20h Mon. WS]	30	10	[+]	**8**
MATH0209-3	*Measure Theory* - Samuel NICOLAY - [20h Mon. WS]	30	10	[+]	**8**
INFO0213-2	*Automata and formal languages theory* - Michel RIGO - [20h Mon. WS]	30	10	[+]	**8**
MATH0220-2	*Functions of complex variables* - Jean-Pierre SCHNEIDERS - [20h Mon. WS]	30	10	[+]	**8**
MATH0464-1	*Differential geometry II* - Pierre LECOMTE - [20h Mon. WS]	30	10	[+]	**8**
MATH0017-3	*Mathematical Logic and Set Theory* - Georges HANSOUL - [20h Mon. WS]	30	10	[+]	**8**
MATH0465-1	*Algebraic Topology* - Jean-Pierre SCHNEIDERS - [20h Mon. WS]	30	10	[+]	**8**

Choose one module (12 ECTS) from :

Module : Mathematics

MATH0483-2	*History of mathematics* - Georges HANSOUL - [20h Mon. WS]	20	-	[+]	**4**
[...]	With the approval of the Board of Studies in Mathematics, choose one (several) course(s) totaling 8 ECTS from the first list below or from the second list below and, possibly, from the courses programme of other masters				

The second list

STAT0723-2	*Statistical linear models* - Paul GÉRARD - [20h Mon. WS]	30	10	[+]	**8**
STAT0201-3	*Multivariate statistics* - Adelin ALBERT - Suppl : Gentiane HAESBROECK - [20h Mon. WS]	30	10	[+]	**8**
INFO0902-1	*Data structures and algorithms* - Pierre GEURTS	30	30	-	**8**
INFO0054-1	*Functional programming* - Pascal GRIBOMONT	30	30	-	**8**
ASTR0201-3	*Astronomy* - Marc-Antoine DUPRET - [20h Mon. WS]	30	10	[+]	**8**
PHYS0243-2	*Quantum Physics I* - Thierry BASTIN - [20h Mon. WS]	30	10	[+]	**8**
PHYS0203-2	*Statistical physics* - Nicolas VANDEWALLE - [20h Mon. WS]	30	10	[+]	**8**
SPAT0012-1	*General relativity I* - Yves DE ROP	60	-	-	**8**
SPAT0044-1	*Stellar Structure and evolution I* - Marc-Antoine DUPRET	20	20	-	**4**
SPAT0045-1	*Stellar structure and evolution II* - Marc-Antoine DUPRET	20	20	-	**4**
MECA0203-3	*Continuum Mechanics* - Pierre DAUBY - [20h Mon. WS]	30	10	[+]	**8**

Module : Environmental Management

ENVT0031-2	*Society / Environment (epistemology, law, economics and social sciences towards the environment)* - François MELARD, Marc MORMONT	24	12	-	**3**
ENVT0030-2	*Managing the environment (transitional issues, instruments, case studies)* - Jean-Marie HAUGLUSTAINE, François MELARD, Marc MORMONT, Catherine MOUGENOT, Pierre M. STASSART	24	12	-	**3**
ENVT0034-1	*GIS data management* - Philippe ANDRE, Jacques NICOLAS, Anne-Claude ROMAIN, Bernard TYCHON	12	12	-	**2**
ENVT0013-3	*Assessment tools (impact assessment, LCA)* - Alain HANSON, Jacques NICOLAS, Nathalie SEMAL	12	12	-	**2**
ENVT0848-3	*Impacts of human activities on ecosystems and including land use* - Célia JOAQUIM#JUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX	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.