

Block view of the study programme

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Block 1

Compulsory course

SMEM0024-1 *Final thesis* - COLLÉGIALITÉ TA - - - 15

Optional courses

En accord avec le Jury (cf. infra - remarque), choisir un des modules thématiques ci-dessous, 6 crédits pouvant être remplacés par d'autres cours du programme du Master en sciences de gestion et gestion de l'environnement, à finalité spécialisée :

Sustainable habitat and land

ENVT0867-1 *Environmental performance of buildings* (english language) - JeanMarie HAUGLUSTAINE Q2 20 20 - 3

ENVT0019-2 *Energy balance and CO2 emissions on a building life-cycle*
- Part 1 : *Buildings to be built* - Philippe ANDRE, JeanMarie HAUGLUSTAINE Q2 20 20 - 4
- Part 2 : *Existing buildings* - Philippe ANDRE, JeanMarie HAUGLUSTAINE 20 20 -

SPOL2306-1 *Energy and territorial policies*
- Part 1 : *European policies* - Maxime HABRAN, Quentin MICHEL Q2 9 9 - 3
- Part 2 : *Regional and local policies* - JeanMarie HAUGLUSTAINE 9 9 -
- Part 3 : *Prospective scenario* - Pierre M. STASSART 9 9 -

ENVT3018-1 *Mobility and sustainable development* - Mario COOLS Q2 12 12 - 2

ARCH3257-1 *Spatial planning* - Jacques TELLER Q2 14 24 - 3

Environment, risks and health

ENVT3016-1 *Environmental toxicology and health*
- Part 1 : *Ecotoxicology and quantification of ecotoxicological risk* - Célia JOAQUIMJUSTO Q2 24 18 - 6
- Part 2 : *Environmental toxicology and health impacts* - Corinne CHARLIER 12 18 -

ENVT3017-1 *Risk management and health*
- Part 1 : *Introduction to risk management* - Catherine FALLON, Pierre OZER Q2 24 24 - 6
- Part 2 : *Microbiological risks* - HenryMichel CAUCHIE, Leslie OGORZALY, Christian PENNY 12 12 -

ENVT0053-1 *Seminar - Health and environment issues* - Nathalie SEMAL Q2 12 24 - 3

Notice : Replacement of classes from the modules above by other classes from the specialised Masters programme in Environmental Sciences and Management may lead to timetable clashes. Students are strongly requested only to continue with this replacement if their timetables are compatible.

[...] the compulsory courses in the programme of block 1 of the Master in environmental science and management, with a specialised focus (maximum 6 ECTS)

In agreement with the Jury, choose 30 course credits from one of the five modules below, 6 of which may be replaced by courses from the Master in environmental management sciences, professional focus :

Notice : If students later wish to follow a Masters 120, they cannot enrol for the focus corresponding to the 30 credits chosen.

Environmental monitoring

Choose courses totalling 30 ECTS out of the following :

ENVT0055-1 *Methodology and sampling* - AnneClaude ROMAIN Q1 24 12 - 3

ENVT3020-1 *Tools for measuring environmental parameters : hydrosphere, geosphere and biosphere* Q1 - 6

	- <i>Part 1 : Hydrosphere</i> - Vincent DEBBAUT, Yves MARNEFFE	12	12	-	
	- <i>Part 2 : Geosphere - Land contamination and degradation</i> - Vincent DEBBAUT	8	4	-	
	- <i>Part 3 : Biosphere</i> - Célia JOAQUIMJUSTO	12	12	-	
ENVT3021-1	<i>Tools for measuring environmental parameters : atmosphere</i>	Q1			7
	- <i>Part 1 : Ambient air quality</i> - AnneClaude ROMAIN	24	12	-	
	- <i>Part 2 : Odors from the environment</i> - AnneClaude ROMAIN	16	8	-	
	- <i>Part 3 : Noise</i> - JeanJacques EMBRECHTS	16	8	-	
	- <i>Part 4 : Ionizing and non ionizing radiations</i> - Véronique BEAUVOIS, AnneSophie CARNOY (GRAMME)	16	8	-	
ENVT3022-1	<i>Tools for measuring environmental parameters : energy flows</i> - Philippe ANDRE	Q1	20	16	- 3
ENVT3023-1	<i>Information representation</i>	Q1			4
	- <i>Part 1 : Indicators</i> - AnneClaude ROMAIN	8	8	-	
	- <i>Part 2 : Identification of systems</i> - Philippe ANDRE	8	4	-	
	- <i>Part 3 : Spatial information</i> - Marie LANG, Julien MINET, Bernard TYCHON	12	12	-	
ENVT3024-1	<i>Environmental data processing and Bayesian paradigm</i> - JeanJacques BOREUX	Q1	24	24	- 4
ENVT3025-1	<i>Environment and health</i>	Q1			3
	- <i>Part 1 : Indoor air quality</i> - AnneClaude ROMAIN	8	8	-	
	- <i>Part 2 : Waterborne diseases</i> - HenryMichel CAUCHIE, Leslie OGORZALY, Christian PENNY	9	3	-	
	- <i>Part 3 : Impact on human health</i> - Martyna KUSKE	8	4	-	
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Societies-environments interfaces

Choose courses totalling 30 ECTS out of the following :

Science and Society

ENVT3026-1	<i>Social study of science and technology</i> - François MELARD - Suppl : Marie GÉRARD - [24h SEM]	Q1	12	-	[+]	4
ENVT3027-1	<i>Biodiversity management practices</i> - Dorothée DENAYER, Lucienne STRIVAY	Q1	36	-	-	4
ENVT3028-1	<i>Citizen science</i> - François MELARD, Pierre M. STASSART	Q1	36	-	-	4

Governance and sustainable development

ENVT3029-1	<i>Public policy and action</i> - Catherine FALLON, Patrick STEYAERT	Q1	24	-	-	4
ENVT0040-2	<i>Ecological transitions theory and management</i> - Corentin HECQUET, Pierre M. STASSART - [12h SEM]	Q1	24	-	[+]	4

Methodologies

ENVT3030-1	<i>Qualitative investigation techniques</i> - Dorothée DENAYER, François MELARD, Nathalie SEMAL, Pierre M. STASSART - Suppl : Marie GÉRARD - [30h SEM]	Q1	12	-	[+]	4
ENVT0021-2	<i>Field training : case studies</i> - Dorothée DENAYER, Corentin HECQUET, François MELARD, Nathalie SEMAL, Pierre M. STASSART - Suppl : Marie GÉRARD - [12h SEM, 48h FW]	Q2	9	-	[+]	6

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Developing countries

Choose courses totalling 30 ECTS out of the following :

ENVT3033-1	<i>Biodiversity and development</i> - Dorothée DENAYER, Alain HAMBUECKERS	Q1	18	18	-	3
ENVT2011-1	<i>Climatology and agrometeorology</i> - Michel ERPICUM, Bernard TYCHON	Q1	48	-	-	4
ENVT3034-1	<i>Geopolitics and social development</i> - Philippe LEBAILLY - Suppl : Olivier DUPONT	Q1	24	24	-	4
ENVT3035-1	<i>Sewage treatment and drinking water production</i> - Hugues JUPSIN, N..., Fouad ZOUHIR	Q1	30	24	-	4
ENVT3036-1	<i>Soil conservation</i> - Gilles COLINET, Bernard TYCHON	Q1	24	12	-	3
GEOG0040-1	<i>The organisation of urban environments</i> - JeanMarie HALLEUX - [6h SEM]	Q1	15	-	[+]	2
ENVT2063-3	<i>Waste management</i> - Luc MINNE	Q1	24	-	-	2
ENVT2028-2	<i>Food security and early warning systems</i> - René GOMMES, Bernard TYCHON	Q1	18	18	-	3
ENVT3037-1	<i>Project and communication conception and design</i> - Bakary DJABY, Marianne VON FRENCKELL	Q1	18	18	-	3
ENVT2066-1	<i>Integrated management practices and participatory water resources</i> - JeanFrançois DELIÈGE, Joost WELLENS	Q1	12	12	-	2

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Integrated management of water resources

Choose courses totalling 30 ECTS out of the following :

ENVT3055-1	<i>Environmental climatology, Part 1</i> - Bernard TYCHON	Q1	12	10	-	2
ENVT3055-2	<i>Environmental climatology, Part 2</i> - Moussa EL JARROUDI	Q2	12	10	-	2
GEO11031-1	<i>Management of groundwater quantity and quality</i> - Serge BROUYÈRE, Philippe ORBAN - [1d FW]	Q2	24	24	[+]	5
ENVT3038-1	<i>Management of hydrographic and hydraulic networks</i> - Pierre ARCHAMBEAU, Benjamin DEWALS, Sébastien ERPICUM, Michel PIROTTON	Q1	30	24	-	5
ENVT3039-1	<i>Sewage treatment and water treatment</i> - Hugues JUPSIN, N..., Fouad ZOUHIR	Q1	38	32	-	6
ENVT3040-1	<i>Integrated and participative management of water resources</i> - Joost WELLENS	Q1	22	16	-	4
ENVT3041-1	<i>Analysis and decision-making aid tools for integrated management of water resources</i> - JeanFrançois DELIÈGE, Marie LANG	Q1	22	16	-	4
ENVT0056-1	<i>Irrigation and water management</i> - N..., Joost WELLENS, Fouad ZOUHIR	Q1	22	16	-	2

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Renewable energies

Choose courses totalling 30 ECTS out of the following :

MECA0459-1	<i>Applied thermodynamics. Energy conversion techniques. Thermic power stations</i> - Ahmed RASSILI	Q1	20	4	-	2
ENVT3059-1	<i>Energy optimisation in construction and integrating renewable energies</i> - Philippe ANDRE, JeanMarie HAUGLUSTAINE	Q1	24	12	-	3
MECA0457-2	<i>Combustion. Technical and environmental aspects</i> - Philippe NGENDAKUMANA	Q1	18	6	-	2
ENVT0866-2	<i>Atmospheric pollution. Management of gaseous waste</i> -	Q1	30	6	-	3

ÉONARD, AnneClaude ROMAIN

MECA0453-3	<i>Optimal use of energy in systems and processes</i> - Michel FEIDT	Q1	21	21	-	3
ENVT3043-1	<i>Air conditioning in buildings</i> - Philippe ANDRE	Q1	30	30	-	5
ENVT0874-3	<i>Renewable energies : technologies and project</i> - Philippe ANDRE, Manfred GREGER, Olivier LOTTIN - [12h Mon. WS]	Q1	48	48	[+]	9
ELEC0446-1	<i>Electrical energy systems</i> - Damien ERNST	Q1	24	12	-	3

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Bloc d'aménagement du programme de l'année

Additional ECTS Master in environmental science and management - organized in Arlon (60 ECTS)

Optional courses

Depending on the student's previous training and with the agreement of the jury, choose courses for a maximum of 14 credits among the following :

ENVT3054-4	<i>Methodological Approach to Environmental Science</i> - Part 1: Analysis, expression and reflexivity - Fabien CLAUDE, Vincent DEBBAUT, AnneClaude ROMAIN - Partim 2 : Project - Fabien CLAUDE, Vincent DEBBAUT, Ninfa GRECO, AnneClaude ROMAIN - [36h Mon. WS]	TA	24	24	-	8
ENVT3054-2	<i>Methodological Approach to Environmental Science, Partim 2 : Project</i> - Fabien CLAUDE, Vincent DEBBAUT, Ninfa GRECO, AnneClaude ROMAIN - [36h Mon. WS]	Q2	-	12	[+]	4
LANG2972-1	<i>English 1</i> (english language) - Véronique DOPPAGNE, ISLV	Q1	12	12	-	2
LANG2973-1	<i>English 2</i> (english language) - Véronique DOPPAGNE, ISLV	Q2	12	12	-	2
ENVT3012-1	<i>Good practices in the laboratory and in the field : safety, hygiene, environment</i> - Vincent DEBBAUT, Alain HANSON	Q1	16	8	-	2
ENVT3053-1	<i>Introduction to Social Science</i> - Marie GÉRARD	Q1	12	12	-	2