

Study programmes 2023-2024

Faculty of Sciences

Master in environmental science and management (120 ECTS) (Renewable energy and sustainable buildings - Joint-degree programme with the

Block view of the study programmeura)	0	U	•	Or T	n Pr	Au Ci	r
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Block 1

Compulsory courses

Semester 1 at ULiège-Arlon Socio-ecological issues: regulated sectors of the environment ENVT0892-1 Integrated energy management, particularly in the construction industry -01 32 16 4 Philippe ANDRE, Maxime HABRAN ENVT3040-2 Integrated and participative management of water resources -Q1 32 16 4 Johan DEROUANE, JOOST WELLENS ENVT3127-1 Biodiversity and societies - Dorothée DENAYER - [12h Mon. WS] Q1 30 [+] 4 Air quality: Pressure - State - Response - AnneClaude ROMAIN, 32 ENVT0893-1 Q1 8 [+] 4 Bernard TYCHON - [8h Vis.] ENVT0894-1 Environment (soil) - Bernard TYCHON - [8h FW] Q1 20 20 [+] 4 Cross-cutting approaches to environmental issues Introduction to the Anthropocene - Pierre M. STASSART - [6h FW, 4h SEM] ENVT0846-2 Q1 20 [+] 2 2 ENVT0049-1 System analysis applied to environment - Philippe ANDRE 16 8 Q1 2 ECON0945-1 Economy, energy and environment - Nadia DE ZOTTI, HenryJean GATHON, 24 5 Q1 _ Axel GAUTIER SPOL0382-2 Foundations of environmental politicies/law - Sylviane LEPRINCE 01 27 9 3 Semester 2 at Unilu HULG2954-2 3 Energy efficiency of buildings, part 3 & lab 2 (english language) 02 HULG2954-1 Energy efficiency of buildings, part 1 and 2 & lab I (english language) O2 -7 HULG2957-1 Thermodynamics (english language) Q2 -5 HULG2960-1 Policy, assessment & evaluation of energy projects on European Level Q2 -3 (english language) 4 HULG2962-1 Transport Systems Analysis (english language) Q2 -4 HULG2963-1 Sustainable Water and Resources Management (english language) 02 -_ 2 HULG2964-1 Initiation to Project Work (english language) Q2 -3 HULG2965-1 Circular economy in construction sector (english language) Q2 -

Block 2

Compulsory courses

Semester 4	
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SMEM0042-1 1	Dissertation - Collégialité	TA -	-	-	25
Optional courses					
With the jury is agreement, choose one or more courses to support the dissertation for a total of 5 credits from:					
ENVT0154-1	Internship or civic service - COLLÉGIALITÉ	TA -	60	-	5

[...] by means of reinforcing specific skills, courses in the Masters in Environmental Sciences and Management

[...] or from another programme

Single focus

Professional Focus



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Cross-cutting approaches to environmental issues

ENVT0040-2	Transitions theory and management ecological transitions - N, Pierre M. STASSART - [15h SEM]	Q1	30	30	[+]	5
ENVT0897-1	Introduction to environmental and health risks - HenryMichel CAUCHIE, Pierre OZER - [6h SEM, 2d FW]	Q1	24	12	[+]	5
Renewable ene	ergy and sustainable construction module					
ENVT0068-2	<i>Exploitation of renewable energy</i> - Philippe ANDRE, Manfred GREGER, Vincent HANUS	Q1	32	16	-	4
ENVT0072-2	<i>Technical and economic analysis of energy systems : theory and project</i> - Philippe ANDRE, Manfred GREGER, Vincent HANUS, Abdelhamid KHEIRI, Olivier LOTTIN	Q1	20	28	-	4
ENVT0069-2	Decentralised production and storage of energy - Vincent HANUS, Olivier LOTTIN	Q1	30	18	-	4
With the jury¿s	agreement and depending on the student¿s course, choose two courses fro	m:				
ENVT0901-	1 Sizing and simulation of energy systems in the construction industry - Philippe ANDRE	Q1	24	24	-	4
ELEC0080-1	02	Q1				4
	- Part 1: Electrical energy systems - Damien ERNST - Part 2: Heat networks - Pierre DEWALLEF - [1d FW]		24 6	12 6	- [+]	
ENVT3059-	2 Energy optimisation in construction and integrating renewable energies - Philippe ANDRE	Q1	24	24	-	4
GEOL1031-	2 Management of groundwater quantity and quality - Serge BROUYÈRE, Philippe ORBAN - [1d FW]	Q1	24	20	[+]	4
ENVT3041-	1 Analytical and decision-making tools for integrated management of water resources - JeanFrançois DELIÈGE	Q1	22	16	-	4
ENVT3029-	1 Public policy and action - Sébastien BRUNET, Patrick STEYAERT	Q1	24	-	-	4
ENVT0073-	1 Agricultural production systems and food security - Antoine DENIS, Pierre OZER, Bernard TYCHON	Q1	20	20	-	4
ENVT0902-	1 <i>Modelling atmospheric dispersion</i> - Marie DURY, Fabian LENARTZ, AnneClaude ROMAIN	Q1	24	20	-	4

With the jur's agreement and for valid reasons, the courses in the Block 2 programme of the Master in environmental science and management (120 ECTS), with a specialised focus may be replaced by courses in Block 1 or by courses from other programmes.

Bloc d'aménagement du programme de l'année

Additional credits Master in environmental science and management (120 ECT) - joint degree with Luxembourg

Depending on the student's previous training and in agreement with the Jury, choose courses for a maximum of 14 credits from:

ENVT0060-1	Introduction to environmental sociology, Part 1: Approaches in environmental sociology - François MELARD	Q1	8	8	-	2
ECON0944-1	Elements of economy for environmental sciences - Pierre COPÉE	Q1	18	5	-	2
ENVT0048-2	Statistics applied to the environment: introduction to the statistical approach and aspects of univariate statistics - Laurent LOOSVELDT	Q1	15	15	-	3

LIÈGE université

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LANG2972Un	Wersity- Ofveluxernbourge) - Véronique DOPPAGNE, Kevin NOIROUX	Q1	12	12	-	2
LANG2973-1	<i>English 2 - Level 1</i> (english language) - Véronique DOPPAGNE, Kevin NOIROUX	Q2	12	12	-	2
ENVT0062-1	Introduction to chemistry and environmental biology - Armélinda AGNELLO, Célia JOAQUIMJUSTO, AnneClaude ROMAIN	Q1	16	16	-	4
ENVT0896-1	Introduction to environmental physics and thermodynamics - Philippe ANDRE	Q1	32	16	-	4