

#### Cycle view of the study programme

B1 Or Th Pr Au Cr

#### Compulsory courses (B1 : 60Cr, B2 : 25Cr)

##### Semester 1 at ULiège-Arlon

##### Socio-ecological issues: regulated sectors of the environment

ENVT0892-1	<i>Integrated energy management, particularly in the construction industry</i> - Philippe ANDRE, Maxime HABRAN	B1	Q1	32	16	-	4
ENVT3040-2	<i>Integrated and participative management of water resources</i> - Johan DEROUANE, Joost WELLENS	B1	Q1	32	16	-	4
ENVT3127-1	<i>Biodiversity and societies</i> - Dorothée DENAYER - [12h Mon. WS]	B1	Q1	30	-	[+]	4
ENVT0893-1	<i>Air quality: Pressure - State - Response</i> - AnneClaude ROMAIN, Bernard TYCHON - [8h Vis.]	B1	Q1	32	8	[+]	4
ENVT0894-1	<i>Environment (soil)</i> - Bernard TYCHON - [8h FW]	B1	Q1	20	20	[+]	4

##### Cross-cutting approaches to environmental issues

ENVT0846-2	<i>Introduction to the Anthropocene</i> - Pierre M. STASSART - [6h FW, 4h SEM]	B1	Q1	20	-	[+]	2
ENVT0049-1	<i>System analysis applied to environment</i> - Philippe ANDRE	B1	Q1	16	8	-	2
ECON0945-1	<i>Economy, energy and environment</i> - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER	B1	Q1	24	5	-	2
SPOL0382-2	<i>Foundations of environmental policies/law</i> - Sylviane LEPRINCE	B1	Q1	27	9	-	3

##### Semester 4

SMEM0042-1	<i>Dissertation</i> - COLLÉGIALITÉ	B2	TA	-	-	-	25
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##### Semester 2 at Unilu

HULG2954-2	<i>Energy efficiency of buildings, part 3 &amp; lab 2</i> (english language)	B1	Q2	-	-	-	3
HULG2954-1	<i>Energy efficiency of buildings, part 1 and 2 &amp; lab 1</i> (english language)	B1	Q2	-	-	-	7
HULG2957-1	<i>Thermodynamics</i> (english language)	B1	Q2	-	-	-	5
HULG2960-1	<i>Policy, assessment &amp; evaluation of energy projects on European Level</i> (english language)	B1	Q2	-	-	-	3
HULG2962-1	<i>Transport Systems Analysis</i> (english language)	B1	Q2	-	-	-	4
HULG2963-1	<i>Sustainable Water and Resources Management</i> (english language)	B1	Q2	-	-	-	4
HULG2964-1	<i>Initiation to Project Work</i> (english language)	B1	Q2	-	-	-	2
HULG2965-1	<i>Circular economy in construction sector</i> (english language)	B1	Q2	-	-	-	3

#### Optional courses (B2 : 35Cr)

With the jury's agreement, choose one or more courses to support the dissertation for a total of 5 credits from: (B2 : 5Cr)

ENVT0154-1	<i>Internship or civic service</i> - COLLÉGIALITÉ	B2	TA	-	60	-	5
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[...] by means of reinforcing specific skills, courses in the Masters in Environmental Sciences and Management

[...] or from another programme

#### Single focus (B2 : 30Cr)

##### Professional Focus (B2 : 30Cr)

##### Semester 3 at ULiège-Arlon

##### Cross-cutting approaches to environmental issues

ENVT0040-2	<i>Transitions theory and management ecological transitions</i> - N...,	B2	Q1	30	30	[+]	5
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### Master in environmental science and management (120 ECTS) (Renewable energy and sustainable buildings - Joint-degree programme with the University of Luxembourg)

ENV0897-1	<i>Introduction to environmental and health risks -</i> HenryMichel CAUCHIE, Pierre OZER - [6h SEM, 2d FW]	B2	Q1	24	12	[+]	5
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#### Renewable energy and sustainable construction module

ENV0068-2	<i>Exploitation of renewable energy -</i> Philippe ANDRE, Manfred GREGER, Vincent HANUS	B2	Q1	32	16	-	4
ENV0072-2	<i>Technical and economic analysis of energy systems : theory and project -</i> Philippe ANDRE, Manfred GREGER, Vincent HANUS, Abdelhamid KHEIRI, Olivier LOTTIN	B2	Q1	20	28	-	4
ENV0069-2	<i>Decentralised production and storage of energy -</i> Vincent HANUS, Olivier LOTTIN	B2	Q1	30	18	-	4

With the jury's agreement and depending on the student's course, choose two courses from: (B2 : 8Cr)

ENV0901-1	<i>Sizing and simulation of energy systems in the construction industry -</i> Philippe ANDRE	B2	Q1	24	24	-	4
ELEC0080-1	<i>Energy networks</i> - Part 1: <i>Electrical energy systems -</i> Damien ERNST - Part 2: <i>Heat networks -</i> Pierre DEWALLEF - [1d FW]	B2	Q1	24	12	-	4
				6	6	[+]	
ENV3059-2	<i>Energy optimisation in construction and integrating renewable energies -</i> Philippe ANDRE	B2	Q1	24	24	-	4
GEOL1031-2	<i>Management of groundwater quantity and quality -</i> Serge BROUYÈRE, Philippe ORBAN - [1d FW]	B2	Q1	24	20	[+]	4
ENV3041-1	<i>Analytical and decision-making tools for integrated management of water resources -</i> JeanFrançois DELIÈGE	B2	Q1	22	16	-	4
ENV3029-1	<i>Public policy and action -</i> Sébastien BRUNET, Patrick STEYAERT	B2	Q1	24	-	-	4
ENV0073-1	<i>Agricultural production systems and food security -</i> Antoine DENIS, Pierre OZER, Bernard TYCHON	B2	Q1	20	20	-	4
ENV0902-1	<i>Modelling atmospheric dispersion -</i> Marie DURY, Fabian LENARTZ, AnneClaude ROMAIN	B2	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.

### 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: (B0 : 14Cr)

ENV0060-1	<i>Introduction to environmental sociology, Part 1: Approaches in environmental sociology -</i> François MELARD	B0	Q1	8	8	-	2
ECON0944-1	<i>Elements of economy for environmental sciences -</i> Pierre COPÉE	B0	Q1	18	5	-	2
ENV0048-2	<i>Statistics applied to the environment: introduction to the statistical approach and aspects of univariate statistics -</i> Laurent LOOSVELDT	B0	Q1	15	15	-	3
LANG2972-1	<i>English 1 - Level 1 (english language) -</i> Véronique DOPPAGNE, Kevin NOIROUX	B0	Q1	12	12	-	2
LANG2973-1	<i>English 2 - Level 1 (english language) -</i> Véronique DOPPAGNE, Kevin NOIROUX	B0	Q2	12	12	-	2

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

ENVT0062-1	Introduction to environmental biology - Armélinda AGNELLO, Célia JOAQUIMJUSTO, AnneClaude ROMAIN	B0	Q1	16	16	-	4
ENVT0896-1	Introduction to environmental physics and thermodynamics - Philippe ANDRE	B0	Q1	32	16	-	4