

## Block view of the study programme

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### Block 1

#### Core curriculum compulsory courses

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

ENVT0892-1	<i>Integrated energy management, particularly in the construction industry</i> - Deepak AMARIPADATH, N...	Q1	28	12	-	4
ENVT3040-2	<i>Integrated and participative management of water resources</i> - Johan DEROUANE, Joost WELLENS	Q1	24	16	-	4
ENVT3127-1	<i>Biodiversity and societies</i> - Dorothée DENAYER	Q1	30	10	-	4
ENVT0893-1	<i>Air quality: Pressure - State - Response</i> - AnneClaude ROMAIN, Bernard TYCHON	Q1	34	4	-	4
ENVT0894-1	<i>Environment (soil)</i> - Bernard TYCHON	Q1	25	15	-	4

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

ENVT0010-1	<i>Seminar - Integrated approach to environmental issues</i> - Ida BERTEL, Dorothée DENAYER, Moussa EL JARROUDI, JeanFrançois HENRICHE, Marie LANG, N... - [30h SEM, 30h Mon. WS]	Q2	3	-	[+]	4
ENVT0846-2	<i>Introduction to the Anthropocene</i> - N... - [6h FW, 4h SEM]	Q1	20	-	[+]	2
ENVT0049-1	<i>System analysis applied to environment</i> - Deepak AMARIPADATH	Q1	14	6	-	2
ENVT4124-1	<i>Traitement des données environnementales</i> - Laurent LOOSVELDT - [10h Mon. WS]	Q2	10	10	[+]	3
ENVT3045-1	<i>Ecosystems : conditions, anthropic impacts and management</i> - Dorothée DENAYER, Célia JOAQUIMJUSTO - [16h Cl. inv.]	Q2	4	20	[+]	4
ECON0945-1	<i>Economie, énergie et environnement</i> - N...	Q1	25	5	-	3
SPOL0382-2	<i>Foundations of environmental policies/law</i>	Q2	30	-	-	3
ENVT2027-3	<i>Application of teledetection and geographical information systems for environmental management</i> - Antoine DENIS, Bernard TYCHON	Q2	14	26	-	4
ENVT3054-2	<i>Methodological Approach to Environmental Science</i> - Marjorie BARDIAU, Léna CAUCHIE, Antoine DENIS - [4h Mon. WS]	Q1	16	10	[+]	3

#### Common core courses

##### Specialised courses

With the jury's agreement and depending on the student's course, choose three courses from:

Remarks:

- Courses will only be organised if at least 5 students are enrolled.

- Course ENVT0155-1 cannot be taken at the same time as courses CLIM0661-1 and ENVT0895-1 (timetable conflict).

GEOG0664-1	<i>Land use planning and mobility</i> - Christophe BREUER, JeanMarie HALLEUX - [2d FW]	Q2	15	15	[+]	4
ENVT0895-1	<i>Environment and development: social, economic, cultural, institutional, legal and political aspects</i> - [16h Mon. WS]	Q2	32	-	[+]	4
CLIM0661-1	<i>Climatologie et changements climatiques</i> - Sébastien DOUTRELOUP	Q2	32	8	-	4
ENVT3026-1	<i>Social study of science and technology</i> - François MELARD - [24h SEM]	Q1	12	-	[+]	4
ENVT0155-1	<i>Methodology, sampling, indicators</i> - AnneClaude ROMAIN	Q2	36	4	-	4
ENVT3046-1	<i>Pressures on the underground</i>	Q2				4
	- Part 1: geological map - Léna CAUCHIE		4	4	-	
	- Part 2 : groundwater - Philippe ORBAN		12	12	-	
ENVT3016-1	<i>Environmental toxicology and health</i>	Q2				4

- Part 1: <i>Ecotoxicology and quantification of ecotoxicological risk</i> - Célia JOAQUIMJUSTO	16	8	-
- Part 2: <i>Environmental toxicology and health impacts</i> - Corinne CHARLIER	8	6	-

The "Master in Environmental Science and Management, specialised focus" may be followed in a specific format entitled "Master in Environmental Science and Management, specialised focus, offered as a joint degree with the University of Luxembourg".

Students enrolled in this joint degree programme from the first year (Block 1) will take 30 credits of compulsory courses at ULiège during the first term of the first year (no optional courses). During the second term of the first year, they will take 30 credits of courses from the Master in Sustainable Development (Energy and Environment track) at the University of Luxembourg, in Luxembourg, taught in English.

Only students enrolled in the joint degree programme will have access, in the second year, to the module "Renewable energy and sustainable buildings".

The full list of courses included in this joint degree programme with the University of Luxembourg is available at the following address:

[https://www.programmes.uliege.be/cocoon/20262027/programmes/S2SENV02\\_B.html](https://www.programmes.uliege.be/cocoon/20262027/programmes/S2SENV02_B.html)

En accord avec le jury et pour raisons dûment motivées, les cours repris dans la liste des cours au choix du Bloc 1 pourront être remplacés par des cours choisis dans les programmes de cours d'autres filières de la Faculté des Sciences, d'autres Facultés ou d'autres Universités.

## Block 2

*Notice* : The list of refresher courses aimed at students who have direct access to the 2nd year of the Masters with a possible addition to the programme is available from the Jury or from the student services of the Faculty of Sciences.

### Core curriculum compulsory courses

SMEM0042-1 <i>Dissertation</i> - COLLÉGIALITÉ, N...	TA	-	-	-	25
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### Common core courses

#### Specialised courses

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

SSTG0154-1 <i>Internship</i> - COLLÉGIALITÉ, Joost WELLENS - [60h Internship]	TA	-	-	[+]	5
ENVT1154-1 <i>Citizen service</i> - COLLÉGIALITÉ, N...	TA	-	60	-	5

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

[...] or the courses from another programme

### Focus compulsory courses

#### Cross-cutting approaches to environmental issues

ENVT0040-2 <i>Transitions theory and management ecological transitions</i> - N... - [15h SEM]	Q1	30	30	[+]	5
ENVT0897-1 <i>Introduction to environmental and health risks</i> - HenryMichel CAUCHIE, Pierre OZER - [6h SEM, 2d FW]	Q1	24	12	[+]	5

### Focus optional courses

**In agreement with the jury, choose one of the 5 modules below:**

*Notice* : A module may not be organised if fewer than 3 students are registered for each of the 3 courses in that module.

#### Module: monitoring of polluted atmospheres

(Coordinator: Anne-Claude ROMAIN)

ENVT0170-1 <i>Environmental impact of buildings</i> - AnneSophie CARNOY, AnneClaude ROMAIN	Q1	32	8	-	4
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ENVT0898-1	<i>Sensory pollution (smell, noise, light, etc.)</i> - Aurore FANAL, Emmanuel JEHIN, Thierry KERVYN, AnneClaude ROMAIN, Francis VENTER	Q1	32	10	-	4
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ENVT0899-1	<i>Metrology of atmospheric pollutants</i> - AnneClaude ROMAIN - [6h Vis.] <b>Prerequisite :</b> ENVT0893-1 - Qualité de l'air : Pression - Etat - Réponse	Q1	30	4	[+]	4
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**Module: mediation and transition**

(Coordinator: Dorothée DENAYER)

ENVT3028-1	<i>Civic participation</i> - Dorothée DENAYER, N...	Q1	36	-	-	4
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ENVT3030-2	<i>Qualitative investigation techniques</i> - Dorothée DENAYER, N... - [30h Cl. inv.]	Q1	12	-	[+]	4
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ENVT0021-3	<i>Field training : case studies</i> - N... - [12h SEM, 48h Mon. WS]	Q2	9	-	[+]	4
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**Module: developing countries**

(Coordinator: Bernard TYCHON)

ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation</i> - Hugues JUPSIN - [10h FT]	Q1	24	6	[+]	4
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ENVT0073-1	<i>Agricultural production systems and food security</i> - Antoine DENIS, Moussa EL JARROUDI, Pierre OZER, Bernard TYCHON	Q1	20	20	-	4
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ENVT0736-5	<i>Development projects management and communication</i> - <i>Théorie et travaux pratiques</i> - Bakary DJABY, Bernard TYCHON - <i>Travail personnel</i> - [24h Mon. WS]	Q1	12	12	-	4
			-	-	[+]	

**Module: integrated water resources management**

(Coordinator: Joost WELLENS)

ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation</i> - Hugues JUPSIN - [10h FT]	Q1	24	6	[+]	4
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ENVT0900-1	<i>Socio-economy of water</i> - Joost WELLENS	Q1	20	20	-	4
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ENVT0056-2	<i>Irrigation and water management</i> - Joost WELLENS	Q1	30	8	-	4
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**Module: renewable energy and sustainable buildings**

(Coordinator: N...)

Module available only as part of the joint degree programme with the University of Luxembourg

ENVT0068-2	<i>Exploitation of renewable energy</i> - Deepak AMARIPADATH, Frédéric LEBEAU, N... - [0,5d FT]	Q1	37	3	[+]	4
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ENVT0072-2	<i>Project approach: theory and economic issues</i> - Deepak AMARIPADATH, N..., N...	Q1	12	8	-	2
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ENVT0867-1	<i>Performance globale des bâtiments : aspects physiques, techniques, environnementaux et réglementaires</i> - Deepak AMARIPADATH	Q1	20	20	-	6
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In agreement with the jury and depending on your background, choose two of the 7 courses below:

*Notice :* - Les cours ne seront organisés qu'à partir de 3 étudiants inscrits.  
- Les horaires des 2 cours ENVT0069-2 et ENVT0904-1 peuvent ne pas être compatibles avec les 4 derniers cours de la liste ci-dessous (GEOL1031-2, ENVT3041-1, ENVT3029-1, ENVT0902-1)

ENVT0069-2	<i>Decentralised production and storage of energy</i> - N..., N..., Sébastien THOMAS	Q1	30	10	-	4
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ENVT0904-1	<i>Simulation et expérimentation des systèmes énergétiques du bâtiment</i> - Deepak AMARIPADATH	Q1	24	36	-	4
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ENVT0905-1	<i>Energy communities</i> - Deepak AMARIPADATH, Damien ERNST	Q1	20	20	-	4
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GEOL1031-2	<i>Management of groundwater quantity and quality</i> - Serge BROUYÈRE, Philippe ORBAN - [1d FW]	Q1	25	15	[+]	4
ENVT3041-1	<i>Analytical and decision-making tools for integrated management of water resources</i> - JeanFrançois DELIÈGE	Q1	22	16	-	4
ENVT3029-1	<i>Public policy and action</i> - Sébastien BRUNET, Sylvie MARIQUE, N...	Q1	27	-	-	4
ENVT0902-1	<i>Modelling atmospheric dispersion</i> - Fabian LENARTZ, N..., AnneClaude ROMAIN	Q1	20	20	-	4
<b>Prerequisite :</b>						
ENVT0893-1 - Qualité de l'air : Pression - Etat - Réponse						

*Notice* : Le module « Energies renouvelables et bâtiments durables » n'est accessible qu'aux étudiants inscrits dès la 1ère année (Bloc 1) au « Master en sciences et gestion de l'environnement, à finalité spécialisée, en codiplômation avec l'Université du Luxembourg ». Dans ce master le 2e quadrimestre (30 crédits) de la 1re année est commun avec le Master en Développement Durable (Filière Energie et Environnement) de l'Université du Luxembourg. La liste complète des cours faisant partie de cette codiplômation est disponible à l'adresse suivante : [https://www.programmes.uliege.be/cocoon/20262027/programmes/S2SENV02\\_B.html](https://www.programmes.uliege.be/cocoon/20262027/programmes/S2SENV02_B.html)

En accord avec le jury et pour raisons dûment motivées, les cours repris dans la liste des 7 cours au choix de la finalité du Bloc 2 pourront être remplacés par des cours repris dans la liste des cours au choix du Bloc 1 ou par des cours choisis dans les programmes de cours d'autres filières de la Faculté des Sciences, d'autres facultés ou d'autres universités.

#### Bloc d'aménagement du programme de l'année

### Bridging courses Master in environmental science and management - organized in Arlon (120 credits)

#### Optional courses

Depending on the student's prior academic background, the board of examiners determines the bridging courses the student must take, for a maximum of 14 credits, from the following:

[...] Au plus 14 crédits

#### Courses list

ENVT0060-1	<i>Introduction to environmental sociology, Part 1: Approaches in environmental sociology</i> - François MELARD	Q1	8	8	-	2
ECON0944-1	(pas organisé en 2026-2027) <i>Elements of economy for environmental sciences</i> - N...	Q1	18	2	-	2
ENVT0048-2	<i>Statistics applied to the environment: introduction to the statistical approach and aspects of univariate statistics</i> - Laurent LOOSVELDT	Q1	15	15	-	3
LANG2972-1	<i>English 1 - Level 1: reading English texts at level B2</i> (english language) - Clara BRERETON, Kevin NOIROUX - [10h Mon. Read.]	Q1	10	10	[+]	2
LANG2973-1	<i>English 2 - Level 1: reading scientific articles in English</i> (english language) - Clara BRERETON, Kevin NOIROUX - [10h Mon. Read.]	Q2	10	10	[+]	2
ENVT0906-1	<i>Introduction to environmental chemistry</i> - Armélinda AGNELLO, Justin MARTIN	Q1	20	4	-	2
ENVT0907-1	<i>Introduction to environmental biology</i> - Dorothée DENAYER, Célia JOAQUIMJUSTO	Q1	10	4	-	2
ENVT0908-1	<i>Introduction to environmental physics</i> - Deepak AMARIPADATH	Q1	14	6	-	2
ENVT0909-1	<i>Introduction to environmental thermodynamics</i> - Deepak AMARIPADATH	Q1	14	6	-	2