

#### Cycle view of the study programme

B1 Or Th Pr Au Cr

**Finalité uniquement accessible aux étudiants inscrits au master avant l'année académique 2021-2022.**

#### Cours obligatoires de la finalité (B2 : 30Cr)

ENVT0055-1	<i>Methodology and sampling</i>	B2	Q1	24	12	-	<b>3</b>
ENVT3020-1	<i>Tools for measuring environmental parameters : hydrosphere, geosphere - Land contamination and degradation and biosphere</i>	B2	Q1	32	28	-	<b>6</b>
ENVT3021-1	<i>Tools for measuring environmental parameters : atmosphere</i> - Part 1 : Ambient air quality - Part 2 : Odors from the environment - Part 3 : Noise - Part 4 : Ionizing and non ionizing radiations	B2	Q1	24	12	-	<b>7</b>
ENVT3022-1	<i>Tools for measuring environmental parameters : energy flows</i>	B2	Q1	20	16	-	<b>3</b>
ENVT3023-1	<i>Information representation</i> - Part 1 : Indicators - Part 2 : Identification of systems - Part 3 : Spatial information	B2	Q1	8	8	-	<b>4</b>
ENVT3024-1	<i>Environmental data processing</i>	B2	Q1	24	24	-	<b>4</b>
ENVT3025-1	<i>Environment and health</i> - Part 1 : Indoor air quality - Part 2 : Waterborne diseases - Part 3 : Impact on human health	B2	Q1	8	8	-	<b>3</b>

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.

#### Cours obligatoires du tronc commun (B1 : 48Cr, B2 : 25Cr)

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

ENVT0892-1	<i>Integrated energy management, particularly in the construction industry</i> - Philippe ANDRE, N...	B1	Q1	28	12	-	<b>4</b>
ENVT3040-2	<i>Integrated and participative management of water resources</i> - Johan DEROUANE, Joost WELLENS	B1	Q1	24	16	-	<b>4</b>
ENVT3127-1	<i>Biodiversity and societies</i> - Dorothée DENAYER	B1	Q1	30	10	-	<b>4</b>
ENVT0893-1	<i>Air quality: Pressure - State - Response</i> - AnneClaude ROMAIN, Bernard TYCHON	B1	Q1	34	4	-	<b>4</b>
ENVT0894-1	<i>Environment (soil)</i> - Bernard TYCHON	B1	Q1	25	15	-	<b>4</b>

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

ENVT0010-1	<i>Seminar - Integrated approach to environmental issues</i> - Moussa EL JARROUDI, Claudia FALZONE, Koufanou HIEN, Eleonore KIRSCH, Marie LANG, N..., Nathalie SEMAL - [30h SEM, 30h Mon. WS]	B1	Q2	3	-	[+]	<b>4</b>
ENVT0846-2	<i>Introduction to the Anthropocene</i> - Pierre M. STASSART - [6h FW, 4h SEM]	B1	Q1	20	-	[+]	<b>2</b>
ENVT0049-1	<i>System analysis applied to environment</i> - Philippe ANDRE	B1	Q1	14	6	-	<b>2</b>
ENVT3124-1	<i>Environmental data processing</i> - Part 1: Univariate and bivariate statistics in the environment - Laurent LOOSVELDT - Part 2: Introduction to R - AnneClaude ROMAIN - Part 3: Statistical arguments - Nathalie SEMAL - [6h Cl. inv.]	B1	Q2	8	8	-	<b>4</b>
ENVT3045-1	<i>Ecosystems : conditions, anthropic impacts and management</i> - [16h Cl.	B1	Q2	4	20	[+]	<b>4</b>

### Master in environmental science and management, professional focus in environmental monitoring

inv.]

ECON0945-1	<i>Economy, energy and environment</i> - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER	B1	Q1	20	-	-	2
SPOL0382-2	<i>Foundations of environmental policies/law</i> - N...	B1	Q1	30	-	-	3
ENVT2027-3	<i>Application of teledetection and geographical information systems for environmental management</i> - Antoine DENIS, Bernard TYCHON	B1	Q2	14	26	-	4
ENVT3054-2	<i>Methodological Approach to Environmental Science</i> - Marjorie BARDIAU, Léna CAUCHIE, Antoine DENIS - [4h Mon. WS]	B1	Q2	16	10	[+]	3
SMEM0042-1	<i>Dissertation</i> - COLLÉGIALITÉ	B2	TA	-	-	-	25

#### Cours au choix du tronc commun (B1 : 12Cr, B2 : 5Cr)

##### Specialised courses

With the jury's agreement and depending on the student's course, choose three courses from: (B1 : 12Cr)

Remarques :

- Les cours ne seront organisés qu'à partir de 5 étudiants inscrits.
- Le cours ENVT0155-1 ne peut pas être choisi en même temps que les cours ENVT0867-1 et ENVT0895-1 (incompatibilité horaire).

*Notice* : Courses only take place if at least five students are registered.

GEOG0664-1	<i>Land use planning and mobility</i> - Christophe BREUER, JeanMarie HALLEUX - [2d FW]	B1	Q2	15	15	[+]	4
ENVT0895-1	<i>Environment and development: social, economic, cultural, institutional, legal and political aspects</i> - Fabio BERTI, N... - [16h Mon. WS]	B1	Q2	32	-	[+]	4
ENVT0867-1	<i>Environmental performance of buildings</i> (english language) - Philippe ANDRE	B1	Q2	20	20	-	4
ENVT3026-1	<i>Social study of science and technology</i> - François MELARD - [24h SEM]	B1	Q1	12	-	[+]	4
ENVT0155-1	<i>Methodology, sampling, indicators</i> - AnneClaude ROMAIN, Nathalie SEMAL	B1	Q2	36	4	-	4
ENVT3046-1	<i>Pressures on the underground</i> - Part 1: geological map - N... - Part 2 : groundwater - Philippe ORBAN	B1	Q2	4	4	-	4
ENVT3016-1	<i>Environmental toxicology and health</i> - Part 1: Ecotoxicology and quantification of ecotoxicological risk - Part 2: Environmental toxicology and health impacts	B1	Q2	16	8	-	4
				8	6	-	

*Notice* : Students who wish to choose the renewable energy and sustainable construction programme in the second year will follow, in the second term, 30 credits from term 2 of the Master of Sustainable Development (Energy and Environmental track) at the University of Luxembourg, as set out in the joint-degree agreement between the two universities. The 30 course credits to be followed at ULiège during the first term will be decided, with the agreement of the Jury, on the basis of the compulsory classes in the first year.

With the jury's agreement and for duly substantiated reasons, courses in the specialised Masters in Environmental Sciences and Management may be replaced by courses chosen from programmes in other parts of the Faculty of Sciences, other faculties, or other universities.

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 the courses from another programme

## Additional ECTS Master in environmental science and management - organized in Arlon (120 ECTS)

### Optional courses (B0 : 14Cr)

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 : (B0 : 14Cr)

ENVT0060-1	<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	20	2	-	2
ENVT0048-2	<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</i> (english language) - Véronique DOPPAGNE, Kevin NOIROUX - [10h Mon. Read.]	B0	Q1	10	10	[+]	2
LANG2973-1	<i>English 2 - Level 1</i> (english language) - Véronique DOPPAGNE, Kevin NOIROUX - [10h Mon. Read.]	B0	Q2	10	10	[+]	2
ENVT0062-1	<i>Introduction to chemistry and environmental biology</i> - Armélinda AGNELLO, Célia JOAQUIMJUSTO, AnneClaude ROMAIN	B0	Q1	26	4	-	4
ENVT0896-1	<i>Introduction to environmental physics and thermodynamics</i> - Philippe ANDRE	B0	Q1	28	12	-	4