

**Block view of the study programme**

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**Block 1**
**Compulsory courses**
**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> - 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**

|            |  |    |    |    |     |   |
|------------|--|----|----|----|-----|---|
| 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 |
| ECON0945-1 | <i>Economie, énergie et environnement</i> - N...   | Q1 | 25 | 5  | -   | 2 |
| ENVT3054-2 | <i>Methodological Approach to Environmental Science</i> - Marjorie BARDIAU, Léna CAUCHIE, Antoine DENIS - [4h Mon. WS] | Q1 | 16 | 10 | [+] | 3 |

**Semester 2 at Unilu**

|            |  |    |   |   |   |   |
|------------|--|----|---|---|---|---|
| HULG2966-1 | <i>Smart energy management</i>   | Q2 | - | - | - | 3 |
| HULG2954-1 | <i>Energy efficiency of buildings, part 1 and 2 &amp; lab 1</i> (english language)                 | Q2 | - | - | - | 7 |
| HULG2957-1 | <i>Thermodynamics</i> (english language)   | Q2 | - | - | - | 5 |
| HULG2960-1 | <i>Policy, assessment &amp; evaluation of energy projects on European Level</i> (english language) | Q2 | - | - | - | 3 |
| HULG2962-1 | <i>Transport Systems Analysis</i> (english language)   | Q2 | - | - | - | 4 |
| HULG2963-1 | <i>Sustainable Water and Resources Management</i> (english language)                               | Q2 | - | - | - | 4 |
| HULG2964-1 | <i>Initiation to Project Work</i> (english language)   | Q2 | - | - | - | 2 |
| HULG2965-1 | <i>Circular economy in construction sector</i> (english language)                                  | Q2 | - | - | - | 3 |

**Block 2**
**Compulsory courses**
**Semester 4**

|            |  |    |   |   |   |    |
|------------|--|----|---|---|---|----|
| SMEM0042-1 | <i>Dissertation</i> - COLLÉGIALITÉ, N... | TA | - | - | - | 25 |
|------------|--|----|---|---|---|----|

**Optional 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 from another programme

**Focus compulsory courses**
**Semester 3 at ULiège-Arlon**

**Cross-cutting approaches to environmental issues**

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

**Renewable energy and sustainable construction module**

(Coordinator: N...)

|            |   |    |    |    |     |          |
|------------|---|----|----|----|-----|----------|
| ENVT0068-2 | <i>Exploitation of renewable energy</i> - Deepak AMARIPADATH, Frédéric LEBEAU, N... - [0,5d FT]                                   | Q1 | 37 | 3  | [+] | <b>4</b> |
| ENVT0072-2 | <i>Project approach: theory and economic issues</i> - Deepak AMARIPADATH, N..., N...  | Q1 | 12 | 8  | -   | <b>2</b> |
| ENVT0867-1 | <i>Performance globale des bâtiments : aspects physiques, techniques, environnementaux et réglementaires</i> - Deepak AMARIPADATH | Q1 | 20 | 20 | -   | <b>6</b> |

**Focus optional courses**

In agreement with the jury and depending on your background, choose two of the 7 courses below:

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

**Prerequisite :**

ENVT0893-1 - Qualité de l'air : Pression - Etat - Réponse

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 (120 credits) - 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 | <i>Introduction to environmental sociology, Part 1: Approaches in environmental sociology</i> - François MELARD | Q1 | 8  | 8 | - | <b>2</b> |
| ECON0944-1 | (pas organisé en 2026-2027) <i>Elements of economy for environmental sciences</i> - N...                        | Q1 | 18 | 2 | - | <b>2</b> |

|            |   |    |    |    |     |          |
|------------|---|----|----|----|-----|----------|
| ENVT0048-2 | <i>Statistics applied to the environment: introduction to the statistical approach and aspects of univariate statistics</i> - Laurent LOOSVELDT | Q1 | 15 | 15 | -   | <b>3</b> |
| 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 | [+] | <b>2</b> |
| 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 | [+] | <b>2</b> |
| ENVT0906-1 | <i>Introduction to environmental chemistry</i> - Armélinda AGNELLO, Justin MARTIN   | Q1 | 20 | 4  | -   | <b>2</b> |
| ENVT0907-1 | <i>Introduction to environmental biology</i> - Dorothée DENAYER, Célia JOAQUIMJUSTO   | Q1 | 10 | 4  | -   | <b>2</b> |
| ENVT0908-1 | <i>Introduction to environmental physics</i> - Deepak AMARIPADATH   | Q1 | 14 | 6  | -   | <b>2</b> |
| ENVT0909-1 | <i>Introduction to environmental thermodynamics</i> - Deepak AMARIPADATH  | Q1 | 14 | 6  | -   | <b>2</b> |