

First Year

Compulsory courses

Cross-disciplinary activities

ENVT0010-1	<i>Multidisciplinary approach to environmental issues</i> - François MELARD, Catherine MOUGENOT, AnneClaude ROMAIN, Nathalie SEMAL	15	36	-	4
ENVT0846-2	<i>Introduction to Sustainable Development</i> - Marc MORMONT, Pierre M. STASSART	18	6	-	2
ENVT0849-2	<i>Collection and treatment of environmental information including systems analysis</i> - Philippe ANDRE, Jacques NICOLAS	18	18	-	3

Environment and resources

ENVT0038-1	<i>Ecosystems: conditions, resources and impact of anthropic activities including environmental management</i> - Célia JOAQUIMJUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX	69	24	-	7
ENVT0012-1	<i>Energy supply resources</i> - JeanMarie HAUGLUSTAINE	18	6	-	2

Society and environment

SPOL0382-1	<i>Foundations of environmental policies/law</i> - Sylviane LEPRINCE	20	5	-	3
ECON0920-1	<i>Basis of environmental economy</i> - HenryJean GATHON, Axel GAUTIER, Michel HERMANS, Bernard JURION	20	5	-	3

Optional courses

Upgrading course

On the basis of previous education and in agreement with the Board of Studies, choose courses totalling 6 credits among the following :

SOCI0718-1	<i>Introduction to the Social Sciences</i> - François MELARD, Gautier PIROTTE	20	5	-	2
DROI0896-1	<i>Introduction to Law</i> - Sylviane LEPRINCE	20	5	-	2
ECON0921-1	<i>Introduction to Economy</i> - Nadia DE ZOTTI	20	5	-	2
ENVT0870-1	<i>Introduction to environmental chemistry</i> - Gauthier EPPE, AnneClaude ROMAIN	20	5	-	2
ENVT0869-1	<i>Introduction to environmental physics</i> - JeanJacques BOREUX, Jacques NICOLAS	20	5	-	2
ENVT0041-1	<i>Introduction to general ecology</i> - HenryMichel CAUCHIE	20	5	-	2
GEOL0273-1	<i>Introduction to Environmental Geology</i> - Alain DASSARGUES	20	5	-	2
ENVT0890-1	<i>Rudiments of thermodynamics</i> - Philippe ANDRE	20	5	-	2
MECA0477-1	<i>Introduction to hydraulics</i> - Michel PIROTON	20	5	-	2

Basic courses

With the approval of the Board of Studies, choose courses totalling 30 ECTS from the following :

Tools

ENVT0013-1	<i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Jacques NICOLAS, Nathalie SEMAL	30	20	-	4
ENVT0014-1	<i>Multicriteria analysis</i> - JeanJacques BOREUX	20	20	-	3
ENVT0015-1	<i>Tools of environmental management (EMS, prospective, spatial planning)</i> - Marc MORMONT, Nathalie SEMAL, Pierre M. STASSART	30	20	-	4
ENVT0016-1	<i>Bayesian statistics applied to environment</i> - JeanJacques BOREUX	24	6	-	2

Sustainable development

ENVT0873-2	<i>Sustainable development and governance (sociology of policies)</i> - Marc MORMONT	30	20	-	4
ENVT0039-1	<i>Modes of environmental knowledge</i> - François MELARD	15	10	-	2
ENVT0017-1	<i>Current issues of sustainable development</i> - Catherine MOUGENOT, Pierre M. STASSART	30	20	-	4
ARCH0076-1	<i>Regional planning, urban planning and energy</i> - Sigrid REITER, Jacques TELLER	30	20	-	4

Health and environment

ENVT0018-1	<i>Ecotoxicology and quantification of ecotoxicological risk</i> - Célia JOAQUIMJUSTO	20	20	-	4
ESHY0128-1	<i>Environmental toxicology and health impacts</i> - Corinne CHARLIER	20	20	-	4

Water and soil

GEOL0271-1	<i>Groundwater</i> - Alain DASSARGUES, Philippe ORBAN	20	20	-	3
GEOG0623-1	<i>Sustainable development of waterways</i> - Philippe RIGO	20	5	-	3
REAU0001-1	<i>Hydrology and surface hydraulics</i> - Michel PIROTON	25	25	-	4
ESHY0084-3	<i>Environmental microbiology</i> - Monique CARNOL, Francis ROSILLON	20	20	-	4

Waste

ENVT0844-2	<i>Energy Recovery from Waste</i> - Michel CRINE	15	10	-	2
------------	--	----	----	---	---

Notice : intervention of external speakers

ENVTO857-1	<i>Processing and recycling of solid waste and soils (ex-situ)</i> - Stoyan GAYDARDZHIEV	20	20	-	3
Energy					
ENVTO867-1	<i>Environmental performance of buildings</i> - JeanMarie HAUGLUSTAINE	20	20	-	3
ENVTO019-1	<i>Energy balance and CO2 emissions on a building life-cycle, Part 1 : Buildings to be built</i> - JeanMarie HAUGLUSTAINE	20	20	-	3

Notice : students wishing to specialise in Renewable Energy in the second year must take, in the second term, 30 credits from the "Energy" course specialising in "Buildings" at the University of Luxembourg in the context of the partnership agreement established between the two universities. The 30 credits to be followed at the ULg during the first term will be chosen, with the approval of the Board of Studies, on the basis of the first year programme.

Second Year

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 Board of Studies or from the student services of the Faculty of Sciences.

Compulsory courses

ENVTO023-1	<i>Professional work placement</i> - COLLÉGIALITÉ	-	45	-	3
SMEM0041-1	<i>Personal project</i>				27
	- <i>internship</i> - COLLÉGIALITÉ	-	-	-	
	- <i>final thesis</i> - COLLÉGIALITÉ	-	-	-	

Compulsory courses

ENVTO865-2	<i>Energy and climate</i> - JeanMarie HAUGLUSTAINE	18	16	-	2
MECA0459-1	<i>Applied thermodynamics. Energy conversion techniques. Thermic power stations</i> - Ahmed RASSILI	20	20	-	3
CHIM0622-2	<i>Energy vectors</i> - JeanMarie HAUGLUSTAINE	18	6	-	2
ELEC0432-2	<i>Power system network</i> - JeanLouis LILIE	24	12	-	3
MECA0457-2	<i>Combustion. Technical and environmental aspects</i> - Philippe NGENDAKUMANA	18	6	-	2
ENVTO866-2	<i>Atmospheric pollution. Management of gaseous waste</i> - Angélique LÉONARD, AnneClaude ROMAIN	18	18	-	3
MECA0453-3	<i>Optimal use of energy in systems and processes</i> - Michel FEIDT	18	24	-	3
MECA0458-2	<i>Refrigeration and air-conditioning</i> - Philippe ANDRE, Rahal BOUSSEHAIN	24	24	-	4
ENVTO874-3	<i>Non conventional energy technologies and renewables</i> - Philippe ANDRE, Olivier LOTTIN, Bernard TYCHON	54	48	-	8

Notice : students wishing to specialise in Renewable Energy in the second year must take, in the first year (second term), 30 credits from the "Energy" course specialising in "Buildings" at the University of Luxembourg in the context of the partnership agreement established between the two universities.