

First Year

Compulsory courses

Cross-disciplinary activities

ENVT0010-1	<i>Multidisciplinary approach to environmental issues</i> - François MELARD, Catherine MOUGENOT, Anne-Claude 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

ENVT0011-1	<i>Ecosystems : status and resources</i> - Célia JOAQUIM#JUSTO, Emmanuël SÉRUSIAUX	45	6	-	4
ENVT0012-1	<i>Energy supply resources</i> - Jean-Marie HAUGLUSTAINE	18	6	-	2

Impacts

ENVT0848-2	<i>Impacts of human activities on ecosystems and including land use</i> - Célia JOAQUIM#JUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX	24	18	-	3
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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> - Henry-Jean 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, Anne-Claude ROMAIN	20	5	-	2
ENVT0869-1	<i>Introduction to environmental physics</i> - Jean-Jacques BOREUX, Jacques NICOLAS	20	5	-	2
BIOL0204-4	<i>Introduction to general ecology</i> - Henry-Michel CAUCHIE, Marianne VON FRENCKELL	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> - Jean-Jacques BOREUX	20	20	-	3
ENVT0015-1	<i>Tools of environmental management (EMS, prospective, spatial planning)</i> - Marc MORMONT, Francis ROSILLON, Nathalie SEMAL, Pierre M. STASSART	30	20	-	4
ENVT0016-1	<i>Bayesian statistics applied to environment</i> - Jean-Jacques BOREUX	24	6	-	2

Sustainable development

ENVT0873-2	<i>Sustainable development and governance (sociology of policies)</i> - Marc MORMONT	30	20	-	4
ENVT0847-1	<i>Epistemology and environment (environmental knowledge models)</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>Land 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 JOAQUIM#JUSTO	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

**Master en sciences et gestion de l'environnement, à finalité spécialisée en
procédés biologiques de valorisation des déchets**

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
<i>Notice</i> : intervention of external speakers					
ENVT0857-1	<i>Processing and recycling of solid waste and soils (ex-situ)</i> - Stoyan GAYDARDZHIEV	20	20	-	3
Energy					
ENVT0867-1	<i>Environmental performance of buildings</i> - Jean-Marie HAUGLUSTAINE	20	20	-	3
ENVT0019-1	<i>Energy balance and CO2 emissions on a building life-cycle, Part 1 : Buildings to be built</i> - Jean-Marie HAUGLUSTAINE	20	20	-	3
[...]	With the approval of the Board of Studies, students can also choose another course from the ULg courses' programme				
<i>Notice</i> : 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

ENVT0023-1	<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

ENVT2055-1	<i>Ecosystem deterioration</i> - Roger PAUL	12	-	-	2
GESA0014-1	<i>Life cycle analysis</i> - Bruno CAMPANELLA	12	12	-	2
GESA0006-1	<i>Practical aspects of physico-chemical wastewater treatment</i> - Philippe THONART	-	36	-	3
GESA0007-1	<i>Fundamental processes of physico-chemical wastewater treatment</i> - Philippe THONART	24	-	-	2
GESA0008-1	<i>Wastewater treatment microbiology</i> - Frank DELVIGNE	15	9	-	2
GESA0009-1	<i>Practical aspects of biological wastewater treatments</i> - Frank DELVIGNE - [27h FT]	3	6	[+]	3
GESA0010-1	<i>Fundamental processes of biological wastewater treatment</i> - Frank DELVIGNE	24	-	-	2
GESA0011-1	<i>Technology of water purification</i> - Philippe THONART	12	-	-	2
CHIM9225-1	<i>Gas effluents processing</i> - Jean-Marc ALDRIC	14	-	-	2
GESA0015-1	<i>Waste recovery : latest developments</i> - Philippe THONART - [20h SEM]	20	20	[+]	5
ENVT2053-1	<i>Waste management</i> - Luc MINNE - [3h FT]	21	-	[+]	2
GESA0013-1	<i>Soil remediation</i> - Bruno CAMPANELLA, Gilles COLINET, Jacqueline DESTAIN - [6h SEM]	30	-	[+]	3