

First Year

Compulsory courses

ENV0868-1	<i>Integration of Seminar: multidisciplinary approach of an environmental question</i> - François MELARD, Catherine MOUGENOT, Anne-Claude ROMAIN, Marianne VON FRENCKELL	15	30	-	3
"Management" Module					
SPOL0382-1	<i>Foundations of environmental politics/law</i> - Sylviane LEPRINCE	20	5	-	2
ECON0920-1	<i>Basis of environmental economy</i> - Catherine DELCOUR, Henry-Jean GATHON, Axel GAUTIER, Michel HERMANS, Bernard JURION, Claudine VLAJIC	20	5	-	2
ENV0845-1	<i>Evaluation and management tools (evaluation EIA, SEA, LCA), management: SME, labels, multi-criteria analysis, spatial planning, economic tools</i> - Jean-Jacques BOREUX, Marc MORMONT, Jacques NICOLAS, François ROSILLON, Pierre M. STASSART, Marianne VON FRENCKELL	50	40	-	7
ENV0847-1	<i>Epistemology and the environment (environmental knowledge models)</i> - François MELARD	15	10	-	2
ENV0846-1	<i>Introduction to Sustainable Development</i> - Marc MORMONT, Pierre M. STASSART	20	5	-	2
Module "Sciences"					
ENV0848-1	<i>Impacts of human activities on ecosystems and including land use</i> - Célia JOAQUIM#JUSTO, Emmanuël SÉRUSIAUX, Marianne VON FRENCKELL	20	20	-	3
ESHY0084-3	<i>Environmental microbiology</i> - Monique CARNOL, François ROSILLON	20	20	-	3
ENV0849-1	<i>Collection and treatment of environmental information including systems analysis</i> - Philippe ANDRE, Jean-Jacques BOREUX, Jacques NICOLAS	20	20	-	3
ESHY0126-1	<i>Ecotoxicology and Environmental Toxicology</i> - Corinne CHARLIER, Célia JOAQUIM#JUSTO	20	20	-	3
ESHY0127-1	<i>Quantification of toxicological and ecotoxicological risks</i> - Corinne CHARLIER, Célia JOAQUIM#JUSTO	20	20	-	3
Module "Applied Sciences"					
ENV0850-1	<i>Energy supply</i> - Jean-Marie HAUGLUSTAINE	20	20	-	3
ENV0851-1	<i>Impacts of industrial activity on environment</i> - Angélique LÉONARD - Suppl : Roberto RENZONI	20	20	-	3
GEOL0271-1	<i>Groundwater</i> - Alain DASSARGUES, Philippe ORBAN	20	20	-	3
GEOG0623-1	<i>Drainage</i> - Philippe RIGO	20	20	-	3
GEOG0624-1	<i>Catchments hydrology</i> - Sébastien ERPICUM, Michel PIROTON	20	20	-	3

Optional courses

Choose courses, on the basis of previous education and in agreement with the Board of Studies, totalling 12 credits :

"Management" (Refresher) Module

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> - N...	20	5	-	2

"Sciences" Module (refresher course)

ENV0870-1	<i>Introduction to environmental chemistry</i> - Gauthier EPPE, Anne-Claude ROMAIN	20	5	-	2
ENV0869-1	<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

"Applied Sciences" Module (refresher course)

GEOL0273-1	<i>Introduction to Environmental Geology</i> - Alain DASSARGUES	20	5	-	2
ENV0890-1	<i>Rudiments of thermodynamics</i> - Philippe ANDRE	20	5	-	2
MECA0477-1	<i>Introduction to fluid mechanics</i> - Benjamin J. DEWALS, Michel PIROTON	20	5	-	2

Notice : Students who wish to choose the "Energy-Environment" option from the research focus in the 2nd year will follow, at the 2nd semester, 30 credits from the "Energy" course directed "Building" at the University of Luxembourg under the Collaboration agreement established between the two universities. The 30 credits of courses to follow at the ULg during the 1st semester will be chosen in agreement with the Board of Studies, from the 1st year programme.

Second Year

Compulsory courses

ENVT0871-1	<i>Integrated exercises</i> - Philippe ANDRE, François MELARD, Jacques NICOLAS, François ROSILLON, Jean-Luc VASEL	-	45	-	3
SSTG0012-1	<i>Internship</i> - COLLÉGIALITÉ	-	-	-	5
SMEM0025-1	<i>Final work</i> - COLLÉGIALITÉ	-	-	-	22

Research Focus

Optional courses

Choose one option from the following :

Option Monitoring the Environment

ENVT0852-1	<i>Data collection and processing</i> - Jean-Jacques BOREUX, Jacques NICOLAS, Eric PIRARD	40	40	-	6
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Measurement Tools for Environmental Parameters

ENVT2036-1	<i>Hydrosphere, biosphere and geosphere</i> - Henry-Michel CAUCHIE, François ROSILLON, Bernard TYCHON, Jean-Luc VASEL	15	15	-	3
ENVT2037-1	<i>Part 2 - Atmosphere</i> - Véronique BEAUVOIS, A.S. CARNOY (GRAMME), Jean-Jacques EMBRECHTS, Jacques NICOLAS, Anne-Claude ROMAIN	35	35	-	7
ENVT2038-1	<i>Energy and mass flows</i> - Philippe ANDRE, Jean-Marie HAUGLUSTAINE	25	25	-	5
ENVT0854-1	<i>Information representation</i> - Jean-Jacques BOREUX, Jacques NICOLAS, Bernard TYCHON	40	20	-	5
ENVT0855-1	<i>Decision Support</i> - Jean-Jacques BOREUX	30	20	-	4

Technical Intervention Option

ENVT0856-1	<i>Characterisation of water and gaseous, liquid and solid effluents</i> - Anne-Claude ROMAIN, Louis VANDEVENNE, Jean-Luc VASEL	30	20	-	4
ENVT0872-1	<i>Water treatment</i> - Jean-Luc VASEL	60	60	-	9
GEOL0272-1	<i>Management of groundwater and surface water quantity</i> - Serge BROUYÈRE, Benjamin J. DEWALS, Philippe ORBAN, Philippe RIGO	40	40	-	6
ENVT0857-1	<i>Processing and recycling of solid waste and soils (ex-situ)</i> - Stoyan GAYDARDZHIEV	20	20	-	3
GCIV0187-1	<i>Storage: containing waste</i> - Albert BOLLE, Jean-Marie RIGO, Jean-Luc VASEL	20	20	-	3
ENVT0858-1	<i>Remediation of contaminated sites</i> - Serge BROUYÈRE	20	20	-	3
ENVT0859-1	<i>Environmental acoustics</i> - Jean-Jacques EMBRECHTS	15	10	-	2

Option Management

ENVT0860-1	<i>Environmental Controversies</i> - François MELARD	20	20	-	3
ENVT0873-1	<i>Sustainable development and governance (sociology of policies)</i> - Marc MORMONT	20	20	-	3
GEST1074-1	<i>Business Management</i> - Pierre M. STASSART	20	20	-	3
ENVT0005-3	<i>Representations Practices of Environment and Nature</i> - Catherine MOUGENOT, Lucienne STRIVAY	20	20	-	3
ENVT0862-1	<i>Methodology (quantitative and qualitative analysis)</i> - François MELARD, Marc MORMONT, Catherine MOUGENOT, Jacques NICOLAS	20	20	-	3
ENVT0861-1	<i>Communication and environments</i> - Marianne VON FRENCKELL	20	20	-	3
ENVT0863-1	<i>Projects</i> - Jean-Marie HAUGLUSTAINE, François MELARD, Marc MORMONT, Catherine MOUGENOT, Pierre M. STASSART	15	80	-	8
ENVT0864-1	<i>special questions</i> - Catherine MOUGENOT, Pierre M. STASSART	30	20	-	4

Option Energy-Environment

Notice : Students who wish to choose the "Energy-Environment" option must have followed in their 1st year (2nd semester) the 30 credits of "Energy" courses directed "Building" at the University of Luxembourg foreseen in the cooperation agreement established between the two universities.

ENVT0865-1	<i>Energy and climate</i> - Jean-Marie HAUGLUSTAINE	15	10	-	2
MECA0459-1	<i>Applied thermodynamics. Energy conversion techniques. Thermic power stations</i> - Philippe MATHIEU	20	20	-	3
CHIM0622-1	<i>Energy vectors</i> - Jean-Marie HAUGLUSTAINE	15	10	-	2
ELEC0432-1	<i>Power system network</i> - Jean-Louis LILIEN, N...	15	10	-	2
MECA0457-1	<i>Combustion. Technical and environmental aspects</i> - Philippe NGENDAKUMANA	15	10	-	2
ENVT0844-2	<i>Energy Recovery from Waste</i> - Michel CRINE	15	10	-	2
	<i>Notice : intervention of external speakers</i>				
ENVT0866-1	<i>Atmospheric pollution. Management of gaseous waste.</i> - Angélique LÉONARD, Anne-Claude ROMAIN	15	10	-	2
MECA0453-1	<i>Optimal use of energy in systems and processes</i> - Michel FEIDT, Gaël MARANZANA	20	20	-	3
ENVT0867-1	<i>Environmental performance of buildings</i> - Jean-Marie HAUGLUSTAINE	20	20	-	3
MECA0458-1	<i>Refrigeration and air-conditioning</i> - Philippe ANDRE, Rahal BOUSSEHAIN	20	20	-	3
ENVT0874-1	<i>Non conventional energy technologies and renewables</i> - Philippe ANDRE, Sébastien ERPICUM, Olivier LOTTIN, Michel PIROTON, Bernard TYCHON	40	40	-	6