G.E.T.

Earth Sciences

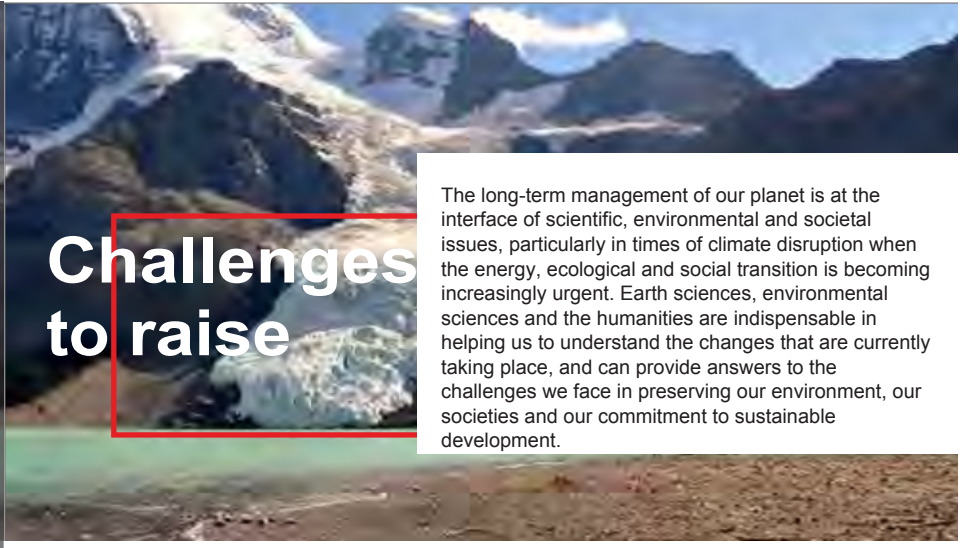
Enhanced bachelor

Geosciences
Environment
Socio-Ecological Transition

Combining the earth sciences and the humanities to provide appropriate responses to the challenges of sustainable development and the transition to energy, ecology and society.

Le Mans Université

Geosciences Environment Socio-Ecological Transition

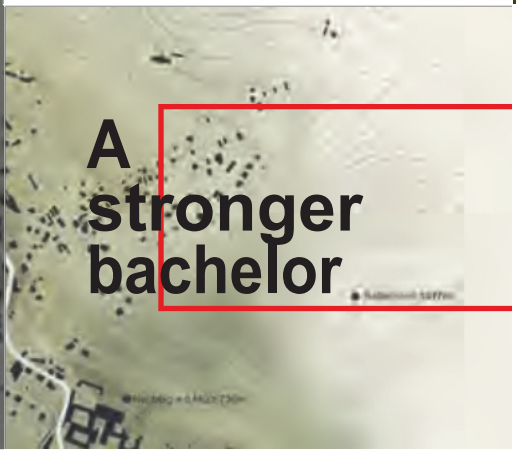


Challenges to raise

The long-term management of our planet is at the interface of scientific, environmental and societal issues, particularly in times of climate disruption when the energy, ecological and social transition is becoming increasingly urgent. Earth sciences, environmental sciences and the humanities are indispensable in helping us to understand the changes that are currently taking place, and can provide answers to the challenges we face in preserving our environment, our societies and our commitment to sustainable development.

What is a GET license?

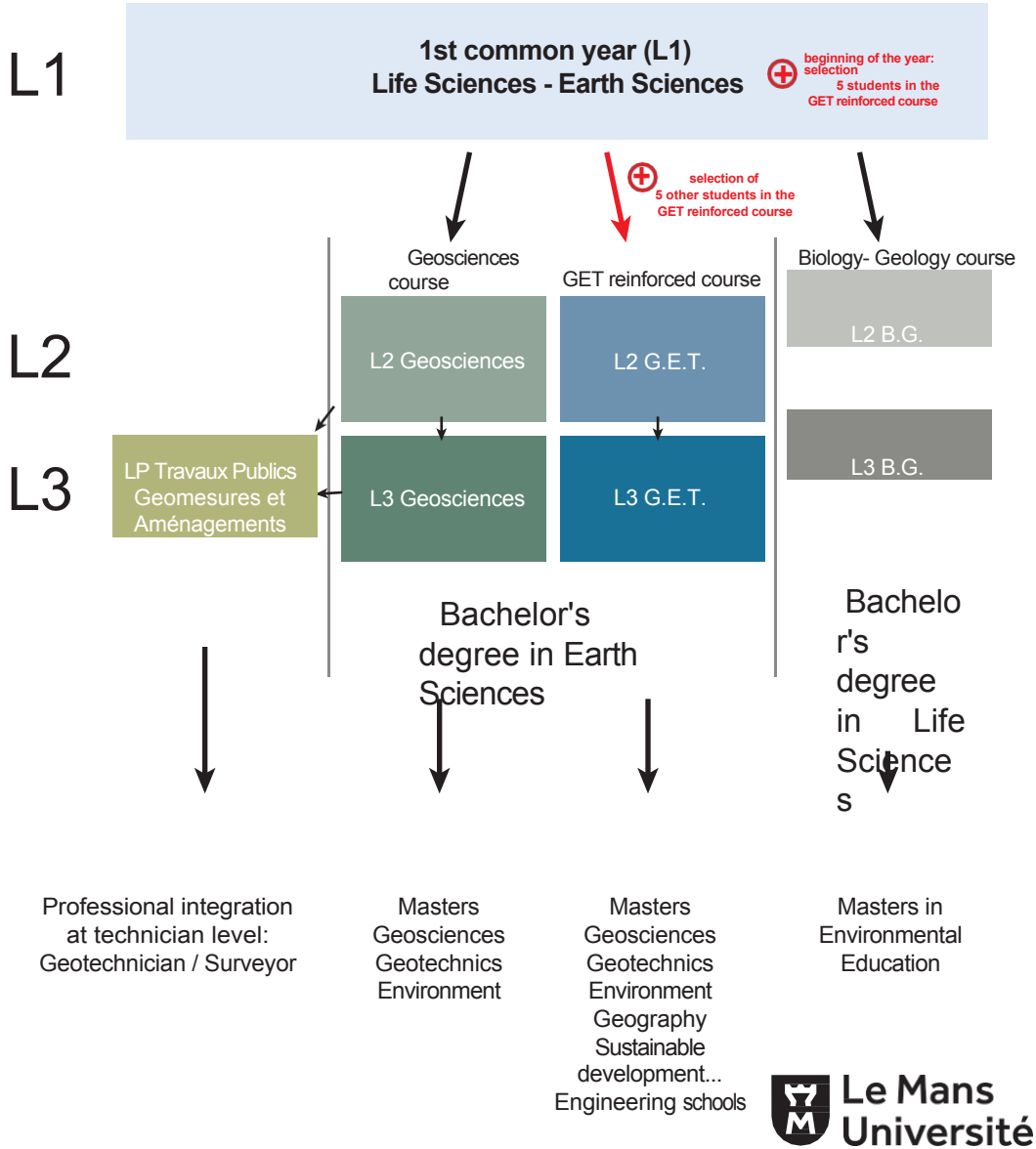
The aim of the Geosciences - Environments and Socio-Ecological Transition degree is to establish and interpret the relationships between the physical functioning of the earth and current environmental, territorial, ecological and societal issues. This pathway will enable students to master the concepts and methods for studying the Earth system, natural hazards and natural resources, as well as the environmental, ecological and geopolitical issues associated with the sustainable management of its resources. It will cover the concepts, indicators and methods used to assess the state of the environment and ecosystems, and present the policies implemented in local areas to achieve the socio-ecological transition and adapt to the constraints of climate change.



A stronger bachelor

This multi-disciplinary bachelor's degree (**Earth Sciences, Geography and Life** Sciences) offers an increased number of hours **per semester (**around **50)**, with additional courses providing a wider range of knowledge and skills.
This selective degree is aimed at motivated students who are keen to understand the world around them and master the challenges of the socio-ecological transition. This demanding course requires a good capacity for work and autonomy.

BACHELOR COURSE
in Earth and Environmental Sciences



Le Mans Université

1st common year (L1)
Life Sciences - Earth Sciences

Blocks of Teaching Units	Teaching units	Hourly volumes CM	TD	TP
Biology	Animal evolution and diversity	16	3	12
	Plant evolution and diversity	16	–	12
	Structural biochemistry	10	12	6
	Plant cell biology	16	3	6
	Animal cell biology	16	3	6
Geosciences	Planet Earth	17	10	–
	Introduction to petrology	17	–	10
	Cartography	4	8	18
	History of the Earth	17	2	8
Mathematics, Physics and Chemistry for SV-ST	Structure and properties of atoms	8	12	3
	Chemical reactions	–	18	9
	Organic chemistry	8	12	6
	Applied math for SVT	11	14	–
	Applied physics for science and technology	18	25	3
Language skills and cross-disciplinary	Methodology and analysis for SVT English	2	4	6
	Communication - French	–	30	–
		–	30	–
Pre-professionalization	Overview of SVT careers	10	-	–
	Student Professional Project - PPE	5	10	–
Socio-ecological transition	Socio-ecological transition policies	12	12	–

* GET route only

- 1st year multidisciplinary ✓
- Wide choice of career paths after 1st year ✓
- Groups of 40 students in lectures, 20 in practical exercises ✓
- Active guidance via PPE ✓
- Support/tutoring for students in difficulty ✓

1st common year (L1) Life Sciences - Earth Sciences

2nd and 3rd years Bachelor's degree in Earth Sciences, GET course

List of L2 and L3 blocks and courses	L2 ST - GET	L3 ST - GET
Geosciences	Structural Geology Sedimentology 1 Geochemistry Geodynamics 1 Magmas and Volcanoes Stratigraphy	Endogenous petrology 1 Sedimentology 2 Geophysics Geology of France Modeling in Geosciences
Environment	Alteration-Geomorphology *Landscape Dynamics Climatology, Biogeography, Ecology* Hydrology-Hydrogeology-Hydrochemistry Ecology	Climate change: causes and consequences *Introduction to ecotoxicology* Environmental professions *Bioremediation* *Water resources: risks and vulnerability*
Socio-ecological transition	*Socio-ecological transition: citizen alternatives* *Natural resources and common goods Local climate policies*	*Landscapes, natural and cultural heritage* *Geopolitics* *Cities in ecological transition*
Pre-professionalization	Geomatics Cartography 2 Geotechnics 1 Geophysical Field Methods Case study in Applied Geosciences *Introduction to remote sensing*	CAD applied to Geosciences Geotechnics 2 Land Vocational training Mineral and energy resources *Survey design & methods* End-of-study project
Teaching transversal	English Communication PIX Mathematics for Geosciences	English

Courses in italics are specific to the GET course.

The only Bachelor's degree **course** of its kind in France ✓
A multidisciplinary and complementary **career path** ✓
Increased hourly volume ✓
Small group of dynamic, motivated students (10 students) ✓
1-month field placement (Alps, ✓
Atlantic coast, Sarthe) End-of-course internship or tutored ✓
project ✓

Further studies in a **wide range of Masters programs**:
Geosciences, Environment, Geography, Ecology ...

How do I get into the GET program?

The GET pathway is selective and will welcome a total of 10 students. 5 students will be selected at the start of the first year of L1 SV/ST, and another 5 at the end of L1, to join the bachelor's program at the start of the second year. A scientific background at Terminal level (SVT, Physique-Chimie, Maths) is strongly recommended.

You are in your final year of high school and would like to join the GET course in L1 :
You must submit an application for admission to the SV-ST Bachelor's degree program on the "Parcoursup" platform.

You are enrolled in the 1st year of a Bachelor's degree or equivalent and would like to join the GET course in L2:
You need to create an application file on "E-candidat".
Admission to the degree program is subject to acceptance of your application, which must be submitted via an online platform and include your final grades, BAC and, if available, L1 or equivalent, a CV and covering letter.

Further studies and career opportunities

The GET bachelor's degree gives access to a wide choice of Master's programs (Earth Sciences, Environment, Ecology, Geography) or engineering schools (La Salle Beauvais, ENSEGID).
Here are a few examples:
Environmental and sustainable development project manager / Project manager in environmental conservation, protection and preservation / Engineer in environmental and regional planning consultancy / Engineer in environmental companies (exploration, exploitation and quality monitoring of water resources, waste, pollution/depollution, etc.) / Responsible for the management and rational exploitation of the subsoil for storage (CO_2, radioactive waste) or energy production (geothermal energy) in specialized companies / Expert in natural hazards (climatic hazards, landslides, etc.) in specialized companies.) / Responsible for the management and rational exploitation of the subsoil for storage (CO_2, radioactive waste) or energy production (geothermal energy) in specialized companies / Expert in natural risks (climatic hazards, landslides, etc.) / Basic research professions (Climatologist, Glaciologist, Ecologist, etc.).

Contacts & information

Head of the ST License GET course:	Edouard.Ravier@univ-lemans.fr	
Head of L1 SV - ST:	Aurore.Caruso@univ-lemans.fr	
Geosciences website :	geosciences.univ-lemans.fr	
School department :	sco-sciences@univ-lemans.fr	+33 2 43 83 32 07
Referral service :	suio@univ-lemans.fr	+33 2 44 02 20 64
Le Mans University :	www.univ-lemans.fr	
Faculty of Science :	www.sciences.univ-lemans.fr	

Training location :
Le Mans University
Avenue Olivier Messiaen

Le Mans Université