



UNIVERSITÉ
MARIE & LOUIS
PASTEUR

LE DÉPARTEMENT
DES SCIENCES &
DES TECHNIQUES



DÉPARTEMENT
GÉOSCIENCE
& ENVIRONNEMENT
UFR ST

LICENCE SCIENCES DE LA TERRE

Domaine de formation : Sciences, Technologies, Santé

UNIVERSITY SITE
UFR ST, Besançon
sciences.umlp.fr

ECTS ITEMS
180

LEVEL OF VALIDATED DIPLOMA
AT EXIT
Bac+3

COURSE DURATION
Volume horaire global : 1500h

TEACHING FORMAT
In person

TRAINING
Initiale, continue

CONTACT
Scolarité, administration
scolarite.ufr-st@umlp.fr

HEAD OF TRAINING :
licence.geologie@umlp.fr

ORIENTATION STAGE EMPLOI
ose@univ-fcomte.fr

SEFOCAL
Service Formation Continue et
Alternance
sefocal@umlp.fr

PRESENTATION

The Earth Sciences bachelor's degree program at the Université Marie et Louis Pasteur covers all Earth Sciences disciplines, with gradual specialization over the three years. Emphasis is placed on practical teaching to help students master the theoretical concepts covered in the various disciplines.

OBJECTIVES

The aim of this diploma is to provide a solid basic training in geology and to offer easy access to French or foreign Masters in Earth Sciences. In particular, the aim is to acquire a good grasp of theoretical notions in the various scientific reasoning, work in groups, learn independently, and set up and follow experimental protocols.

SKILLS

The main skills expected at the end of the course are as follows:

General

- Work in a team or independently
- Organize reasoning and think critically
- Mobilize concepts to tackle specific problems
- Use digital tools
- Process and analyze data
- Develop written and oral expression
- Perform advanced bibliographical research

Specific

- Set up and carry out an experimental protocol (geochemical and mineralogical analyses, geophysical and petrographic measurements, etc.).

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<https://www.umlp.fr/les-formations>



INTENDED AUDIENCE

Baccalaureate specialties :

Relevant specialties >> Mathematics / Physics-chemistry / Life and Earth sciences.

Possible specialties >> Numerical and computer sciences / Engineering sciences.

ADMISSION AND REGISTRATION

Visit the application and registration section of the Université Marie et Louis Pasteur website.

FURTHER STUDIES

This diploma offers excellent access to all French and foreign Earth Sciences masters programs.

TARGET OCCUPATIONS

Geotechnician, geological assistant, geological design assistant, geological engineer (further study), hydrogeologist (further study).

INTERNSHIP

Four field placements and internships in companies and/or research laboratories are carried out over the three years of the bachelor's degree. Students develop their capacity for scientific reasoning and independent learning through a wide range of simulations.

PROGRAM

The Earth Sciences bachelor's degree program is designed to cover the various geosciences, based on a multi-disciplinary scientific foundation. Theoretical teaching is complemented by practical experience gained through original experiments, classroom work and field placements.

Computer tools are used regularly throughout the three years of training, for dissertations, oral presentations, digital analysis and access to online educational services. Geology courses include the learning of a programming language to process, analyze and visualize

data acquired in the field or laboratory in the various fields of Earth Sciences. The Geosciences department is committed to developing innovative teaching methods. Students use a range of virtual reality tools.

Language teaching is mainly focused on English. Essential in the world of research, it is also aimed at an increasingly international job market. English is taught and practiced throughout the three years of the degree program, with around 18 hours of face-to-face classes per semester, plus additional self-study. TOEIC certification is an ultimate goal.