



## Bachelor (BSc) in Earth Sciences

### Programme of the Spring semester taught in English (January-May)

This semester is designed to provide in-depth and practical knowledge about geological environments, with a focus on alpine terrains. The programme has a strong emphasis on field work (two one-week field camps). It also proposes an initiation to research through supervised projects in ISTerre and EDYTEM laboratories<sup>1</sup>.

Course code <sup>2</sup>	ECTS <sup>3</sup>	Course name	Keywords
GEOL 402	4	Field geology: sedimentary terrains	Mapping; palaeoenvironments; sedimentology; structural geology; tectonics
GEOL 403	2	Geographic information system (GIS)	Remote sensing; QGIS; raster processing; classification; time lapse
GEOL 601	6	Geological risks	Seismic hazard; volcanic eruptions; landslides and gravitationnal processes; rupture theory
GEOL 604	6	Field geology: metamorphic terrains	Mapping; petrography; structural geology; tectonics
GEOL 603	2	Tectonics	Orogenesis; modelling; geodynamics; active tectonics
GEOL 606	2	Gravimetry	Gravity field; anomalies calculation; modeling of geological structures at different scales
GEOL 607	6	Introduction to research	Initiation to research; lab work; geosciences
GEOL 608	2	Environmental risks of mining and quarrying	Environnemental contamination and impacts, metals speciation and dynamics
FLE-A1/A2 FLE-B1/B2	4	French - level A1/A2 French - level B1/B2	French course - beginner French course - intermediate

<sup>1</sup> Host laboratory thematics can be found at: <https://www.isterre.fr/> and <https://edytem.cnrs.fr/>

<sup>2</sup> Course code in the course catalogue: <https://formations.univ-smb.fr/fr/catalogue/licence-XA/sciences-technologies-sante-STs/licence-sciences-de-la-terre-KGXZ5F2W.html>

<sup>3</sup> ECTS (European Credits Transfer System)

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