

GEO 2A MAJOR in CIVIL AND MINING ENGINEERING

Link to: [CIVIL AND MINING ENGINEERING](#)

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The department

The Civil and Mining Engineering department is also called "Geoengineering". It offers a program of courses to prepare students for careers in civil engineering, mining and petroleum, environment and natural hazards. The aim is to teach students reasonable and sustainable management of resources (mineral and energy resources, water resources), underground construction (mines, tunnels, geotechnical structures) and civil construction. The program starts at the beginning of the 2nd year with a week of geological cartography (field work) in the south of France (Corbières).

The coursework emphasizes:

- on the one hand, the capacity to observe, draw and understand the objects studied through a naturalist approach (geological cartography, structural geology);
- on the other hand, the capacity to model these objects through mechanical or statistical approaches (geotechnics, beam theory, numerical modelling, geostatistics, etc.)

This program, which has a very broad approach (especially in 2nd year), is centered around the study of complex natural objects. Some courses are more technical or theoretical. In 3rd year, students may choose between two Master of Science programs that focus on sustainable mining engineering or risk management related to natural hazards.

The program of the department is also based on a statistical analysis* of the actual graduated students position (mainly public or private companies but also scientific research and higher education). These statistics show that about 30% of graduated have a position in mining and petroleum industry, 20-30% in civil engineering, 20-30% deal with environment or natural hazards management and the last 10-20% work in other fields (consultants, banks, etc.), especially those who have been professionally active for a long time.

* results from a survey carried out in 2006 on 163 graduated students from the department and adjusted in 2014 on 95 recent graduated students.

Major - [Civil and Mining Engineering and associated Masters of Science](#)

[Web site of the Geosciences & Civil Department](#)