





MATERIALS SCIENCE AND ENGINEERING

1st year of Master degree - Spring semester

The first year of the master aims to give a common base of theoretical and experimental knowledge in the field of materials science, necessary before any specialization.

All students may follow core courses and/or materials science courses.

The exchange offer corresponds to the second half of the academic year, spring semester (from January to March/June).

A minimum of 20 ECTS (European Credit Transfer and Accumulation System) are required for the learning agreement.

For information on the requirements of each course, please check the syllabus on our website.

Please note that courses are place-limited.

Courses take place at various campuses, all located near the Panthéon and the Luxembourg Garden:

- Chimie ParisTech-PSL, located at: 11 Rue Pierre et Marie Curie, 75005 Paris
- Mines Paris-PSL, located at: 60 boulevard Saint-Michel, 75006 Paris
- ESPCI Paris-PSL, located at: 10 rue Vauquelin, 75005 Paris

CORE COURSES

- M1ELAB-Inorganic Materials Elaboration (2 ECTS)
- MHM1SGANG2- Language courses ENG/FR (2 ECTS)
- M1PIG- Innovation Group Project (3 ECTS, only for students doing a full year exchange)
- MHM1SGPSL2- PSL Week (2 ECTS)
- MHM1SGSTG- Internship (Lasting at least 2 months, only in France) (8 ECTS)

MATERIALS SCIENCES COURSES

- M1MOD Molecular modelling (2 ECTS)
- M1PES Electronic properties of solids: From the macro to the nano scale (3 ECTS)
- M1INORG Inorganic Chemistry: from molecules to materials (3 ECTS)
- M1SMM Surface properties and endurance of materials (3 ECTS)
- M1FLOWCHEM Advanced fluid mechanics (3 ECTS)
- M1ESS From mechanical testing to materials behaviors (3 ECTS)