

MATERIALS SCIENCE AND ENGINEERING

1st year of Master degree - Fall 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 **scientific tools and communication courses** and/or **materials science courses**.

The exchange offer **corresponds to** the first half of the academic year, **fall semester (from September to January)**.

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](#) or [here](#)**

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**

SCIENTIFIC TOOLS AND MULTICULTURAL COURSES

- MHM1SGPR- **Programming** (2 ECTS)
- MHM1SGTEX- **Experimental Methods** (4 ECTS)
- MHM1SGBIB- **Literature Review: conducting and writing** (3 ECTS)
- MH23TC.PIG- **Innovation Group Project** (3 ECTS, **only for students doing a full year exchange**)
- MHM1SGANG- **Language courses** ENG/FR (2 ECTS)

MATERIALS SCIENCE COURSES

- MHM1SGMC - **Corrosion** (3 ECTS)
- MHM1SGPOL - **Physical Chemistry of polymers** (3 ECTS)
- MHM1SGMC - **Crystalline materials** (4 ECTS)
- MHM1SGMM - **Metallic materials** (3 ECTS)
- MHM1SGMEC - **Introduction to Mechanics** (3 ECTS)