

# 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](#)**.

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

- M1PROG- **Programming** ( 2 ECTS)
- M1METEXP- **Experimental Methods** ( 4 ECTS)
- M1BIB- **Literature Review: conducting and writing** ( 3 ECTS)
- M1PIG- **Innovation Group Project** ( 3 ECTS, **only for students doing a full year exchange**)
- MHM1SGANG- **Language courses** ENG/FR ( 2 ECTS)

### MATERIALS SCIENCE COURSES

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| • M1COR - <b>Corrosion</b> ( 3 ECTS )                     |
| • M1POL - <b>Physical-Chemistry of polymers</b> ( 3 ECTS) |
| • M1CRIST - <b>Crystalline materials</b> ( 4 ECTS )       |
| • M1MET - <b>Metallic materials</b> ( 3 ECTS)             |
| • M1MECA - <b>Introduction to Mechanics</b> ( 3 ECTS)     |