



# M1 - Materials science exploiting large scale facilities – MaMaSELF (MAT P3)

MASTER CHIMIE



Structure de  
formation  
Faculté des  
Sciences



# Programme

## M1S1 MAT P3

|  | Nature | CM  | TD  | TP | Crédits   |
|--|--------|-----|-----|----|-----------|
| Crystallography I                          | UE     | 14h | 6h  |    | 2 crédits |
| Thermodynamics and defects of solids M1    | UE     | 24h | 12h |    | 5 crédits |
| Inorganic materials                        | UE     | 17h | 8h  |    |           |
| Surface properties M1                      | UE     | 17h | 8h  |    | 3 crédits |
| Crystallography II and Electron Microscopy | UE     | 34h | 18h |    | 6 crédits |
| Thin films and extreme conditions M1       | UE     | 17h | 8h  |    | 3 crédits |
| Materials for catalysis M1                 | UE     | 17h | 8h  |    | 3 crédits |
| Quantum Mechanics and Modelling I          | UE     | 30h | 15h |    | 5 crédits |

## M1S2 MAT P3

|  | Nature | CM  | TD  | TP | Crédits    |
|--|--------|-----|-----|----|------------|
| Metallurgy and electronics properties                      | UE     | 30h | 15h |    | 5 crédits  |
| Internship research  | UE     |     |     |    | 10 crédits |
| Project internship   | UE     |     |     |    | 3 crédits  |
| Quantum Mechanics and Modelling II                         | UE     | 42h | 21h |    | 7 crédits  |
| Crystallography, crystal chemistry, Large scale facilities | UE     | 30h | 15h |    | 5 crédits  |