

# Homogeneous catalysis

Niveau d'étude  
**Bac +4**

ECTS  
**5 crédits**

Composante  
**Sciences Fondamentales  
et Appliquées**

Période de l'année  
**Semestre 7**

## En bref

- # **Langue(s) d'enseignement:** Anglais
- # **Organisation de l'enseignement:** Formation initiale
- # **Ouvert aux étudiants en échange:** Oui
- # **Référentiel ERASMUS:** Chimie

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## Présentation

### Description

#### Organic synthesis and organometallic

Introduction to Organic Synthesis, Interconversion of functional groups, C-C and C=C bond formation), Organocatalysis (fundamentals and examples)

#### Organometallic chemistry and transition-metal homogeneous catalysis

Introduction, Basic principles,

Bonding in metallic compounds, Coordination vs. organometallic compounds Introduction to homogeneous catalysis

Elementary steps, Kinetics

Main Catalytic cycles

## Objectifs

Expertise in homogeneous catalysis

## Heures d'enseignement

|    |    |     |
|----|----|-----|
| CM | CM | 15h |
| TD | TD | 25h |

## Pré-requis obligatoires

Bachelor degree in chemistry or equivalent

## Programme détaillé

### Organic synthesis and organometallic

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