

Orbitals reactivity and mechanisms

 **ECTS**
3 crédits

 **Etablissement(s)**
UFR Chimie,
UFR des
Sciences
fondamentales
et biomédicales

 **Volume horaire**
24h

 **Période de
l'année**
Semestre 2

En bref

- **Langue(s) d'enseignement:** English
- **Forme d'enseignement :** Cours TD
- **Ouvert aux étudiants en échange:** Non

Présentation

DESCRIPTION

The first part of this course gives a brief presentation of molecular orbital theory (Hückel for conjugated p-systems) then addresses pericyclic reactions and different methods (Dewar-Zimmermann, Woodward-Hofmann rules and Fukui's method) used to rationalize many aspects of these reactions. The second part is dedicated to stereoelectronic effects and their importance in explaining the molecular shape, conformation, stability, reactivity and selectivity. The last part addresses the reaction mechanism determination aiming to prepare you to (1) elucidate the mechanism of chemical reactions based on kinetic and thermodynamic principles and collected data, and (2) be able to evaluate mechanistic arguments made in the literature.

HEURES D'ENSEIGNEMENT

Orbitals reactivity and mechanisms	Cours Magistral	12h
Orbitals reactivity and mechanisms	Travaux Dirigés	12h

PRÉ-REQUIS OBLIGATOIRES

Prior organic courses in years 1-3, in particular year 3 courses of organic chemistry and physical chemistry

Pour en savoir plus, rendez-vous sur > u-paris.fr/choisir-sa-formation

En bref

CONTACTS

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