Cursus: Chimie et génie chimique

Sem.: Obl.

Type: Obl.

Language: English

Credits: 1

Session: Oral

Exam: Oral

Workload: 30h

Hours: 21

Lecture: 7

Exercises: 14

Number of positions

Frequency

Every year

Remarque

Next time: Fall 2020

Summary

Total synthesis, Natural product, Green chemistry, Enantioselective synthesis, Organo-catalysis, Lewis acid, Transition-metal, Drug discovery

Content

Natural product, modern synthetic tools
C-C bond formation, C-heteroatom bond formation
Enantioselective synthesis
Lewis acid-catalyzed transformation
Transition metal-catalyzed transformation
Organocatalysis
Green chemistry
Drug development, Drug discovery
Interface of organic chemistry/biology, organic chemistry/bioorganic chemistry

Keywords

Total synthesis, Natural product, Green chemistry, Enantioselective synthesis, Organo-catalysis, Lewis acid, Transition-metal, Drug discovery

Learning Prerequisites

Important concepts to start the course
M2 level

Resources

Websites

- https://www.epfl.ch/schools/sb/research/isic/news-events/organic_chemistry_seminars/