

**CHM1243 Introduction to organic chemistry and to biochemistry**

[22.5h+22.5h exercises] 3 credits

**Teacher(s):** Jean-Paul Declercq, Agnès Gnagnarella  
**Language:** French  
**Level:** First cycle

**Aims**

The main objective of the course is to teach students the essential aspects of the chemistry of the living world.

**Main themes**

1. Main classes of organic molecules
  - description, functional groups and reactivity
  - physico-chemical properties (acidity, boiling points, #)
  - introduction to isomerism (conformation, configuration, stereoisomerism)
  - applications : petroleum derivatives, polymers, biological molecules
2. Biomolecules
  - carbohydrates
  - lipids
  - DNA, RNA
  - peptides and proteins
  - enzymatic catalysis (selected example : chymotrypsin)

**Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)**

- lectures : 22,5h
- laboratories : 12h (4 x 3h)
- exercises : 10,5h (7 x 1,5h)

**Other credits in programs**

**PHYS12BA** Deuxième année de bachelier en sciences physiques (3 credits)