



## CHM1271 Elements of biochemistry

[30h+24h exercises] 4 credits

This course is taught in the 1st semester

**Teacher(s):** Robert Crichton  
**Language:** French  
**Level:** First cycle

### Aims

The objective is to introduce students to the structure of biomolecules and their function as well as, from a biochemical view, molecular biology.

The course contains : a theoretical part aimed at presenting the basic concepts of biochemistry ; practical exercises aimed at illustrating the notions seen in the theoretical part.

### Main themes

Introduction to basic molecules of biochemistry.

1. Amino acids and proteins
2. Carbohydrates
3. Lipids and biological membranes
4. Nucleic acids

Function of bio molecules.

1. Structure of proteins
2. Enzymes

Notions of molecular biochemistry

- Replication of DNA
- Transcription of DNA into RNA
- Nucleic acid-protein complexes
- Biosynthesis of proteins

The practical work illustrates the properties of the main classes of biomolecules studied in the theoretical course and initiates students to a certain number of techniques used currently in biochemistry.

### Other credits in programs

<b>CHIM12BA</b>	Deuxième année de bachelier en sciences chimiques	(4 credits)	Mandatory
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