

## Faculty of Medicine



MD1003

## Mineral and general chemistry

[60h+28h exercises] 8 credits

**Teacher(s):** Paul Depovere, Claude Ronneau  
**Language:** French  
**Level:** First cycle

**Aims**

1. Acquisition of basic knowledge and main concepts of General Chemistry.
2. Practical exercises on some basic techniques in General Chemistry.

**Main themes**

The main themes of this course are :

- (i) Chemical equations, quantitative mass relationships, volumes and concentrations of solutions.
- (ii) Atomic structure and chemical bonding.
- (iii) Elements of chemical thermodynamics (enthalpy, entropy, Gibbs free energy) and the chemical equilibrium.
- (iv) Solution chemistry : acids and bases, pH, precipitation and solubility products, equilibria involving complex ions, redox reactions, electrode potentials and electromotive force.
- (v) Elements of chemical kinetics.

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

Prerequisite : sufficient knowledge of French ; familiarity with classical mathematical tools (e.g. basic algebra, logarithms).  
 Evaluation : written examination measuring problem solving capabilities (ca. 6 questions).

**Other credits in programs**

<b>DENT11BA</b>	Première année de bachelier en sciences dentaires	(8 credits)	Mandatory
<b>MED11BA</b>	Première année de bachelier en médecine	(8 credits)	Mandatory