

MD

MD1003

Chimie générale et minérale

[60h+30h exercices] 9 credits

Teacher(s): Paul Depovere, Daniel Peeters, Claude Ronneau, Etienne Sonveaux (coord.)
Language: french
Level: 1st cycle course

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

DENT11BA	Première année de bachelier en sciences dentaires	(9 credits)	Mandatory
FARM11BA	Première année de bachelier en sciences pharmaceutiques	(9 credits)	Mandatory
MED11BA	Première année de bachelier en médecine	(9 credits)	Mandatory
SBIM11BA	Première année de bachelier en sciences biomédicales	(9 credits)	Mandatory