

Faculty of Medicine



IEPR1001 General chemistry and biomolecules

[30h+15h exercises] 5 credits

Teacher(s): Patrick Henriet
Language: French
Level: First cycle

Aims

By the end of the module, students should understand the essential notions in general chemistry and should know the structure and properties of the principal biomolecules underlying human physiology. This knowledge is required for the further understanding of cell biology, biochemistry and exercise physiology. Moreover, it will be helpful in justifying professional educational and re-educational actions.

Main themes

The major themes are :

- atomic and molecular structure of the living matter
- fundamental principles for the transformation of the living matter

Content and teaching methods

(auteur - titulaire actuel) : Y. Eeckhout => P. Henriet

1. INTRODUCTION : AIMS, OBJECTIVES AND METHODOLOGY
2. BASIC NOTIONS : MATTER AND ENERGY
3. ELEMENTARY CONSTITUANTS : ATOMS AND MOLECULES
4. ELEMENT PROPERTIES AND ATOM STRUCTURE
5. CHEMICAL BOND AND MOLECULAR STRUCTURE ET STRUCTURE DES MOLECULES
6. CHEMICAL REACTION
7. WATER AND pH
8. CARBON COMPOUNDS AND ORGANIC FUNCTIONS
9. BIOLOGICAL MACROMOLECULES AND THEIR MONOMERS

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

Pré-requis

Evaluation Examen écrit ou oral et/ou éléments d'évaluation continue

Support Syllabus et/ou livre(s)

Encadrement Titulaire(s) et/ou assistant(s), aidé(s) éventuellement par étudiant(s) moniteur(s)

Autres

Other credits in programs

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|-----------------|---|-------------|-----------|
| EDPH11BA | Première année de bachelier en sciences de la motricité | (5 credits) | Mandatory |
| KINE11BA | Première année de bachelier en kinésithérapie et réadaptation | (5 credits) | Mandatory |