

Chimie analytique 1

Lecturer

Thomas DONEUX (Coordinator)

Course mnemonic

CHIM-F201

Language(s) of instruction

French

Course period

See programme details

Course content

Steps in a chemical analysis and evaluation of methods. Separation techniques (extractions, chromatographic and electrophoretic techniques). Analytical methods such as absorption spectroscopy, fluorescence, atomic absorption. Electroanalytical methods. Mass spectrometry. Laboratory work familiarizes the student with the quality of an analytical result on the basis of volumetric, gravimetric, spectrophotometric and pH-measurements.

Objectives (and/or specific learning outcomes)

Teaching of the fundamentals of chemical analysis

Pre-requisites and co-requisites

Pre-requisites courses

CHIM-F101 | Chimie générale | 10 crédits, CHIM-F101 | Chimie générale | 15 crédits, CHIM-F101 | Chimie générale | 20 crédits and CHIM-F101 | Chimie générale | 5 crédits

Courses having this one as co-requisit

BIOL-F301 | Physiologie et développement des plantes | 5 crédits, CHIM-F302 | Chimie analytique | 10 crédits and CHIM-F318 | Analyse structurale spectrométrique | 5 crédits

Teaching method and learning activities

Lectures and practical laboratory

References, bibliography and recommended reading

D.A. Skoog, D.M. West, F.J. Holler "Fundamentals of Analytical Chemistry", Saunders College Publishing, New York, 7th Ed., 1996
D.A. Skoog, D.M. West, F.J. Holler "Chimie Analytique", Traduction C. Buess-Herman, J. Dauchot-Weymeers, F. Dumont, De Boeck Université, 1997

Other information

Contact(s)

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Evaluation method(s)

Other

Evaluation method(s) (additional information)

Oral examination for the theoretical part (lectures). Evaluation of laboratory work : evaluation of the practical skills during experimental work and understanding of methods by written examination.

Programmes

Programmes proposing this course at the faculty of Sciences

BA-BIOL | Bachelor in Biology | option Bruxelles/unit 2, BA-CHIM | Bachelor in Chemistry | unit 2, BA-GEOL | Bachelor in Geology | unit 2 and BA-IRBI | Bachelor in Bioengineering | unit 2

Programmes proposing this course at the Brussels School of Engineering

BA-IRBI | Bachelor in Bioengineering | unit 2