



CHIM2130 Inorganic chemistry

[45h] 4.5 credits

This course is taught in the 1st and 2nd semester

Teacher(s): Michel Devillers
Language: French
Level: Second cycle

Aims

The objectives of the inorganic chemistry course are:

- extending the notions of general inorganic chemistry founded in the first two years of study
- mastering the main concepts of coordination chemistry, including organometallic chemistry.

Main themes

1. Complements of general and theoretical chemistry allowing to enlarge the description of chemical bonding in inorganic compounds and the evolution of their properties in the entire periodic table.
2. The fundamental concepts of coordination chemistry in the relation with the physico-chemical structure and the reactivity..
3. An introduction to organometallic chemistry, mostly of transition metals.

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

Prerequisites: basics in general chemistry (CHIM1151-1173); molecular symmetry and crystalline structures (CHIM 1241A); basics in theoretical chemistry (CHIM1180) and in molecular spectroscopy (CHIM1241B).

Evaluation: oral and written examination.

Support: Inorganic Chemistry: principles of structure and reactivity, J. Huheey, E. Keiter, R. Keiter, 4th ed., Harper and Collins, 1993. Other bibliographic references advised at the beginning of education. Overhead transparencies used by the teacher.

Other credits in programs

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Mandatory