



## CHIM2202 Applied polymer chemistry II

[22.5h+0h exercises] 2.5 credits

This course is taught in the 1st semester

**Teacher(s):** Jacques Vandooren  
**Language:** French  
**Level:** Second cycle

### Aims

The course presents the scientific process followed to realize the Kinetic analysis of complex transformations, identify the important steps of a reactional scheme and the physico-chemical parameters that influence them.

### Main themes

The content of the course can vary from a year to another. The themes treated are chosen from the following : - examples of reactions that do not respond to an order (complex Kinetics) - Auto-oxidation and inhibition - Acid-base catalysis and acidity functions - Isotropic effects, primary, secondary, of solvents - Heterogeneous catalysis - Kinetic-thermodynamic (ideal reactors). Learning methods : - ex-cathedra course - Analysis of Kinetic results on computers - The way to form the student to set up an experimental plan and to the analysis of results, simulation programs on computers that generate the experimental results are offered to the students.

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

Prerequisites: basics in chemical kinetics.

Evaluation: oral examination.

Support: Analyse cinétique de la transformation chimique, J.C. Jungers et al., Ed Technip.

### Other credits in programs

**CHIM22** Deuxième licence en sciences chimiques