

Chemistry 4010/6010
Chromatography
Spring 2012

Instructor: Gabor Patonay, Room 590 Kell Hall, Phone: 404-413-5556,
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No office hours set, students can come as needed

Textbooks: "Chromatographic Methods" by A. Braithwaite and F.J. Smith
available in the bookstore and on-line.

Lecture Objectives: To learn basic principles governing separation techniques; to learn fundamentals of chromatographic techniques; to learn to apply basic principles that may help students develop a chromatographic method to achieve a particular separation/analysis of compounds or mixtures of compounds.

Course Content: Topics covered in the course will include fundamental relationships in chromatography (about 2.5 weeks); gas chromatography (4 weeks); liquid chromatography (5 weeks); thin-layer chromatography (3 weeks); hyphenated methods (1 week); ordered media in separations (1 week). Additional special topics on instruments or special separation methods will be covered as time permits.

Exams: There will be three (3) short exams (60 minutes) and one final exam (2 hours) on the dates outlined below. (Short exams are during regular class time.)

Short Exams: February 2, March 6, April 3
Final Exam: April 24, 2012, 10:45 a.m.

Course Grade: Lab Reports: 40%
Final Exam: 30%
Short Exams: 30% total (10% each)

Problems: Assigned problems are given during the course of the semester. Several of these are posted on the chemistry website. ***These problems are not be turned in nor graded*** It will be up to the student to complete these homework assignments. However it should be noted that ***some of the questions appearing on the exams will be based on questions taken from homework.*** Problems will be discussed in class before the tests.

*Please note that a different faculty is in charge of the laboratory sections. Therefore objectives and other details (syllabus, schedule of experiments and other laboratory instructions) will be provided separately. If you have any question about lab syllabus, lab exercises and lab reports, please contact that person.