

Chemistry 4010/6010
Chromatography
Spring 2014

- 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 methods to achieve a particular separation/analyses of compounds, 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 (2.5 hours) on the dates outlined below. (Short exams are during regular class time.)
- Short Exams: February 4, March 4, April 3, 2014**
Final Exam: April 29, 2014, 10:45 a.m. – 1:15 pm
- Course Grade: Lab Grade assigned by lab instructor: 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.