Chemistry 4010/6010  
Chromatography  
Spring 2016

Instructor: Gabor Patonay, Room 590 Kell Hall, Phone: 404-413-5556,  
E-mail: gpatonay@gsu.edu  
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 (75 minutes) and one final exam (2.5 hours) on the dates outlined below. (Short exams are during regular class time.)

<table>
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<tr>
<th>Short Exams:</th>
<th>February 4, March 3, April 7, 2016</th>
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<tr>
<td>Final Exam:</td>
<td>April 25, 2016, 1:30 p.m. – 4:00 pm</td>
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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.