CHEM 820 ANALYTICAL SEPARATIONS

CREDIT HOURS: 3.0 hours

INSTRUCTOR:

Dr. Susan Lunte, 200F MRB (WEST CAMPUS) 864-3811*
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TIME AND PLACE
Monday, Wednesday and Friday 2:00-3:25 pm; Room 3059 Mallot

COURSE OBJECTIVES
An advanced treatment of analytical separations techniques, including theoretical and practical descriptions of electrophoresis and chromatographic methods. This will be augmented with discussion of practical aspects of instrumentation and experimental design. Sample preparation methods will also be described.

BREAKDOWN OF POINTS

<table>
<thead>
<tr>
<th>Exam 1 (electrophoresis)</th>
<th>100</th>
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<tr>
<td>Exam 2 (chromatography)</td>
<td>100</td>
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<td>Exam 3 (LC, GC and SPE)</td>
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<td>Class Presentation</td>
<td>100</td>
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<td>Total</td>
<td>400</td>
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ACADEMIC MISCONDUCT:
Students having any questions about their rights and responsibilities with respect to Academic Misconduct should review the appropriate section of the 2017 Fall Timetable.

Tentative Schedule and Topics

Weeks 1: No class; (blackboard survey)
Week 2-5: Electrophoretic separations (12 lectures)
Week 6-12: Liquid chromatographic methods (21 lectures)
Week 13: Solid phase extraction methods (3 lectures)
Weeks 14: Gas Chromatography and Supercritical fluid chromatography (3 lectures)
Week 15: Presentations by students (3 lectures)

Exams (tentative dates)
Exam 1: February 20, 2017
Exam 2: March 31, 2017
Exam 3: April 26, 2017
Presentations: April 28- May 3