Advanced Topics in Analytical Chemistry CHM 539  
Chemistry & Biochemistry SIUC  
Spring 2016

**Instructor**  
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**Office**  
Neckers 293

**Office hours**  
M & F @ 10 - 11 am

**Class Location**  
FANR 1006.

**Class Schedule**  
MWF @ 9 - 9:50 am

**Text**  
Research Journal Articles, IF > 4.0

**Lectures**  
PowerPoint slides, handouts and notes may be provided in some cases.

**Prerequisite**  
CHM 434

**Introduction:** CHM 539 is a graduate course and the purpose is to reinforce the research of the students by strengthening their critical thinking, communication skills, and creativity. The course contents (i.e. Advanced Topics in Analytical Chemistry) will be selected based on the students’ research interest. Moreover, all the activities will be planned out through inputs of the students. The learning activities will likely include PowerPoint presentation, café discussion, thesis defense interview, research proposal, writing critique on a paper, and peer review.

**Overall objective:** By the end of this course students are expected to know the basic working principles, applications, and limitations of the topics of their interest. There will be emphases on communication skills, critical analysis, and creative thinking that help students to understand the topics from different angles.

**Assessments & Grading:**  
A: 85% - 100%, B: 75% - 85%, C: 60% - 75%, F: <60%

**Key dates and deadlines:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Classes begin</td>
<td>Jan. 20</td>
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<tr>
<td>Spring Break</td>
<td>Mar. 14 - 18</td>
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<td>Midterm exam</td>
<td>TBA</td>
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<tr>
<td>Classes End</td>
<td>May 6</td>
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<tr>
<td>Final exam</td>
<td>TBA</td>
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**Academic Integrity:**

- Students are responsible to be aware of faculty guidelines on academic integrity and chemistry department policy on plagiarism.
- Students are encouraged to study in groups but all the reports and presentations “MUST” be students’ own work.
- Plagiarism will not be tolerated in any case.