CHEM 645/445 Kinetics  
Fall 2017

**Lectures** meet T, Th 6:00 – 7:15 pm in LaT 300  


**Instructor:** Elizabeth Gaillard, office: FW322, phone: 753-6908, e-mail: Gaillard@niu.edu  

**Office hours:** T, Th 4:00 – 5:50 pm or by appointment

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**Course Information**

A. Grading: the final grade for this course will be calculated:  
   - Homework assignments 30%  
   - Mid Term exam 30%  
   - Final paper + presentation 40%  

The grading scale for this course is:  
   - ≥ 90% = A, 80 – 90% = B, 70 – 80% = C, 60 – 70% = D, < 59% = F

B. Assignments and Exams

1. Homework problems will be assigned on a per chapter basis. In general, you will have one week to complete the assignments.  
2. There will be a Mid-term exam given on Nov. 2. This exam will be administered during the class period and will cover topics to date.  
3. Final paper and presentation: each student will be required to prepare a review article on an application of chemical kinetics to an area of aligned with their research interests/projects. The paper should be double spaced, no longer than 10 pages and should be formatted like a standard scientific review article (Title, Introduction/Historical Perspective, Methodology, Current state of the field, Discussion/Open questions, literature cited). See Blackboard for more detailed guidelines. You must select one article from the peer reviewed chemical literature to serve as the starting point for your review – this article and a tentative title must be submitted to Dr. Gaillard no later than Oct. 26 for approval. During the last week of classes (week of Dec. 5), each student will give a 15 minute Powerpoint presentation that summarizes the review article.  
   Please note that Dec. 13 is the last day to turn in your review article and Powerpoint presentation.

C. Academic dishonesty  
   Academic dishonesty includes (but is not limited to) looking at another student’s exam during a testing session, allowing another student to copy your work, and use of unauthorized materials (e.g., lecture notes, crib sheets, textbooks, prohibited electronic devices such as cell phones or programmable calculators that contain stored equations, formulas or text) during exams. More importantly, for this
course, is the issue of plagiarism which is a form of academic dishonesty. Plagiarism is, in fact, a valid cause for suspension or dismissal from the University. You are required to view the NIU Online Tutorial on Academic Integrity at http://www.niu.edu/ai/students/; this may take approximately one hour to work through. You are also required to read the NIU Statement on Plagiarism found at http://www.engl.niu.edu/composition/guidelines/plag.shtml.

D. If you need an accommodation for this class, please contact the Disability Resource Center as soon as possible. The DRC coordinates accommodations for students with disabilities. It is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 or drc@niu.edu.

Also, please contact me privately as soon as possible so we can discuss your accommodations. Please note that you will not be required to disclose your disability, only your accommodations. The sooner you let me know your needs, the sooner I can assist you in achieving your learning goals in this course.

**Tentative Schedule**

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<tr>
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<td>Kinetic Theory of Gases</td>
<td>Ch. 1</td>
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<td>Rates of Chemical Reactions</td>
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<tr>
<td>10/17, 10/19</td>
<td>Transport Properties</td>
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<tr>
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<td>Reactions in Liquid Solutions</td>
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<tr>
<td>12/12</td>
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<td>12/13</td>
<td>Last Day to turn in review article</td>
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