Chem 646 syllabus
Physical Chemistry
Spring 2018
Instructor: Lee Sunderlin     Office Hours: MWF 10-11 in LaT 327 or 331
             Phone:  753-6870     e-mail:  sunder@niu.edu
Text: Molecular Quantum Mechanics 5th Edition (Atkins)

There will be three tests, each covering 2-3 chapters. The exact cutoff for the test material will be noted on Tuesday before each test. The final will be on the same date/time as the third test.

<table>
<thead>
<tr>
<th>Test</th>
<th>Date</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Feb 9</td>
<td>100 pts</td>
</tr>
<tr>
<td>Test 2</td>
<td>Mar 23</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final</td>
<td>May 7 (Mon 2 PM)</td>
<td>100 pts plus 100 pts cumulative</td>
</tr>
</tbody>
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In addition, there will be homework assignments for each chapter. The tests are worth 100 points (the final is counted as two 100 point tests). The HW is counted for 100 points, and the HW grade can be used to replace the lowest test score. This gives a class total of 400 points. Students must do their own work on the tests, under penalty of receiving a zero on the test. Students may use only a calculator, a (double sided) sheet of notes/equations, and any data sheets given with the test. Students may work together on homework, and a solutions manual is available. Students should use these resources as occasional rather than constant aids.

_Diligence on the HW assignments is the key to success in this class._ Except in unusual circumstances, there will be no makeup exams. Grades will be assigned on 93 = A, 90=A-, 87=B+, 83 = B, 80=B-, 77=C+, 70 = C, 60 = D basis.

Other texts are available from the Professor if you would like to see a different explanation of any points in the text. You are also encouraged to stop by for office hours. If the scheduled office hours are not convenient, appointments at other times can be made.
Chem 646 Atkins 5th Ed. Homework    Spring 2018

Exercises 0.2, 0.6
Problems 0.1, 0.7, 0.13

Exercises 1.1, 1.2, 1.3
Problems 1.4, 1.7, 1.13, 1.22

Problems 2.1, 2.12, 2.13, 2.14, 2.15, 2.17, 2.29

Exercises 3.1, 3.2, 3.4, 3.6, 3.16, 3.17, 3.18
Problems 3.2, 3.15

Problems 4.8 (see 4.7), 4.10, 4.18

Exercises 5.4, 5.5, 5.6, 5.7, 5.11, 5.12, 5.17
Problems 5.3, 5.15

Problems 6.3, 6.12, 6.13, 6.17b, 6.18

Exercises 7.2, 7.4, 7.5
Problem 7.8 (see 7.7)

Problems 8.2, 8.10, 8.14a (just set up problem)

In addition, several computational assignments will be given. The first is to go over the first sections of the Spartan tutorial to become familiar with the program.
Academic Integrity: Good academic work must be based on honesty. The attempt of any student to present as his or her own work that which he or she has not produced is regarded by the faculty and administration as a serious offense. Students are considered to have cheated if they copy the work of another during an examination or turn in a paper or an assignment written, in whole or in part, by someone else. Students are responsible for plagiarism, intentional or not, if they copy material from books, magazines, or other sources without identifying and acknowledging those sources or if they paraphrase ideas from such sources without acknowledging them. Students responsible for, or assisting others in, either cheating or plagiarism on an assignment, quiz, or examination may receive a grade of F for the course involved and may be suspended or dismissed from the university. (Note that working together on homework is not considered plagiarism in this class; copying another's homework is.)

Accessibility Statement: Northern Illinois University is committed to providing an accessible educational environment in collaboration with the Disability Resource Center (DRC). Any student requiring an academic accommodation due to a disability should let his or her faculty member know as soon as possible. Students who need academic accommodations based on the impact of a disability will be encouraged to contact the DRC if they have not done so already. The DRC is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 (V) or drc@niu.edu

Preferred Gender Pronoun Statement: This course affirms people of all gender expressions and gender identities. If you prefer to be called a different name than what is on the class roster, please let me know. Please also inform me and feel free to correct me and your classmates on your preferred gender pronouns. If you have any questions or concerns, please do not hesitate to speak with me in person, or email me. The Gender and Sexuality Resource Center also has a webpage designed to help support people of all genders as they navigate NIU’s system: http://niu.edu/gsrc/audience/trans.shtml

Multilingual Student Statement: I am committed to making course content accessible to all students. If English is not your first language and this causes you concern about the course, please speak with me.

Student Sexual Misconduct Policy: Title IX prohibits sex discrimination to include sexual misconduct: harassment, domestic and dating violence, sexual assault, and stalking. If you or someone you know has been harassed or assaulted, you can receive confidential support and advocacy at the Counseling & Consultation Service’s Advocacy Services, which can be contacted on at 815-753-1206, or in Campus Life Building-room 200. Alleged violations can be reported non-confidentially to the Affirmative Action & Equity Compliance Office in Lowden Hall-room 101, at 815-753-1118, or online at http://www.niu.edu/sexualmisconduct/help/form.shtml. Reports to law enforcement can be made to NIU Police & Public Safety at 815-753-1212. For an emergency, call 911. For more information about Sexual Misconduct Prevention & Resources, visit http://niu.edu/sexualmisconduct/index.shtml

Note: As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as an instructor and a faculty advisor to a student organization. I am required to share information regarding sexual misconduct or information about a crime that may have occurred on NIU’s campus with the University. Students may speak to someone confidentially by contacting Counseling & Consultation Service’s Advocacy Services at 815-753-1206, or in Campus Life Building-room 200.