

Physical Chemistry II
CHE 361-001
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Spring 2009

All items on this syllabus are subject to change by the instructor

Office SC 351
Office Hours MWF, 9 – 10 AM
Outside of these hours, I have an open-door policy: if my door is open, you may feel free to knock and enter. If my door is closed, I am unavailable. For a guaranteed meeting time outside of office hours, please set up an appointment at least one day in advance.

Class Schedule: MWF, 8 – 8:50 AM SC 402
Study Session Hours WF, 7:30 – 8 AM SC 402

Prerequisite: CHE 360, PHY 222 or 213

Text: *Physical Chemistry*, 6th Edition, by Ira N. Levine
Chapters 14- 22. The same text is used for CHE 361

Optional Supplement: *Student Solution Manual to Accompany Physical Chemistry*, 6th Edition, by Ira N. Levine

Exams: 4 regular exams, 100 points each
1 comprehensive final (covering both semesters of Pchem), 150 points

Homework/Quizzes: 100 points

Presentation: 50 points

The lowest regular exam score will be dropped. If an exam is missed for any reason, that will become the dropped exam. The lowest quiz or homework score will also be dropped. Should a quiz or homework be missed, that will become the dropped one. The presentation grade cannot be dropped. Quizzes will be announced at least one class session in advance. Homework turned in after the due date will be given a zero. No make-up exams or quizzes will be given. If more than one quiz or exam is missed they will be given zeros, unless there is a documented medical or personal emergency and the instructor has been notified in a timely fashion.

Exams: 1: Chapters 14,15
2: Chapters 16, 22
3: Chapters 17, 18
4: Chapters 19, 20
Final: comprehensive, (including chapter 21)

Note: Physical Chemistry is accumulative and therefore while the exams will be focused on testing knowledge of the listed chapters, mastery of topics from previous chapters will often be required to complete the exam.

Grading scale:	A	90 – 100
	B	80 – 89
	C	70 – 79
	D	60 – 69
	F	<60

Presentation: A 5 minute powerpoint presentation on a type of spectroscopy will be given by students. Details will be provided during class. The presentation will be graded on clarity and scientific content. Peer grades will factor into the students' grade as well. The presentation will be given during the coverage of chapter 20.

The last day to withdraw without a grade is 2/02/2009. The last day to drop with a 'W' is 03/30/2009.

Appropriate Department of Chemistry Student Learning Outcomes

1. Explain the major concepts and experimental findings in the chemical sciences.
3. Utilize critical thinking skills to apply concept knowledge ... to: ...b) solve scientific problems
7. Evaluate the relationships between chemistry and mathematics, physics, biology, and other disciplines and between chemistry and society.
8. Apply computer technology and other technologies in the comprehension, interpretation, and presentation of the chemical sciences.

Specific Learning Objectives

- A. Use calculus and physics in chemical calculations. (3, 7)
- B. Explain the three laws of thermodynamics and apply these laws to physical changes, chemical reactions, phase equilibria, and chemical equilibria. (1, 3)
- C. Use computer software to graph and interpret data. (8)

Department of Chemistry Policies

Students are responsible for reading and understanding all items on this syllabus. Any items not understood must be brought to the attention of the instructor within the first two weeks of class.

The work you will do in any course is subject to the Student Honor Code. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain an academic advantage over fellow

students or avoid academic requirements. The Honor Code can be accessed at:
<http://www.nku.edu/~deanstudents/policies.htm> .

Cheating will not be tolerated. In accordance with the Code of Student Rights and Responsibilities, which also can be found at <http://www.nku.edu/~deanstudents/policies.htm>, faculty members have the right to determine actions to be taken when a student is caught cheating.

Faculty members reserve the right to dismiss or to have removed a disruptive student from their classrooms.

Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit the Disability Services website at <http://www.nku.edu/~disability/> .