CHM 307: Introductory Physical Chemistry

Spring 2011
9:30-10:45 AM, TR 473 Science Hall
1:00-2:50 PM, W Lab section 201 470 Science Hall
3:00-4:50 PM, W Lab section 202 470 Science Hall

Dr. Laura McCunn-Jordan ***PLEASE CALL ME DR.MCCUNN***
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phone: (304) 696-2319
http://www.science.marshall.edu/mccunn/

**Office Hours**
Monday 10:00-11:00 and 2:00-3:00
Tuesday and Thursday 1:30-3:30 PM
other times by appointment

If you cannot attend my office hours, please make an appointment. I welcome drop-in visits, but I am not always available outside of office hours. Simple questions can be answered via email.

**Required materials**
- *Physical Chemistry for the Biosciences* by Raymond Chang
- composition notebook (not spiral-bound) for lab
- goggles for lab
- calculator (graphing calculators are permitted, but not necessary)

**Course Description**
A brief survey of physical chemistry including the topics of thermodynamics, kinetics, molecular structure, and spectroscopy. Intended for students needing a broadly based science background. 4.00 credits. Prerequisites: grade of C or higher CHM 212, C or higher in MTH 140 or 229, and 8 hours of physics, or consent of instructor

**Course Objectives**
1. Mastery of thermodynamics, kinetics, molecular structure, and spectroscopy.
2. Ability to read and understand scientific literature.
3. Development of written and oral communication skills.

**Attendance Policy**
In general, missed homework and quizzes may not be made up except in the case of an excused absence, according to university policy. If you are absent, please contact Dr. McCunn ASAP to get missed assignments. In the case that class is cancelled due to inclement weather or an emergency on the day of a scheduled test, the test will be given in the next scheduled class period.

**Miscellaneous policies**
Please silence cell phone ringers during class or exams. Dr. McCunn reserves the right to answer any ringing cell phones during lecture, dismiss the offending student, or deduct points
from the student’s final grade. Use of cell phones / PDAs / MP3 players and similar devices during tests and exams will be considered a form of cheating. The only materials permitted during a test are a calculator, pen/pencil, and those provided by the instructor. Lecture notes and handouts will always be available in Dr. McCunn’s office during office hours or by appointment. They will also be posted at MU Online as time permits. Guides for laboratory experiments will be distributed in class and posted at MU Online. Class announcements may occasionally be made via email to your university email address. Please check it on a regular basis.

**Academic Honesty**
The university policy will be enforced. See page 66 of the 2010-11 undergraduate catalog. Some examples of academic dishonesty include (but are not limited to) copying another student’s assignment, lying about being ill on the day of a test, using a cell phone or other communication device during a test, and quoting an author’s writing (including material found on the internet) without giving due credit.


**Incomplete Coursework**
The university policy will be enforced. See page 86 of the 2010-11 undergraduate catalog.


**Accommodations for Disabilities**
Students with disabilities must contact the Office of Disabled Student Services in Prichard Hall 117, phone 696-2271 to provide documentation of their disability to ensure proper accommodation. Please visit http://www.marshall.edu/disabled for additional information.

**Grading Policy**

- homework/quizzes 150 points
- tests 300 points
- group project 100 points
- journal clubs 50 points
- lab reports 100 points
- lab notebook 100 points
- final exam 200 points

1000  TOTAL POINTS

**Grading Scale**

- A  900-1000 points
- B  800-899
- C  700-799
- D  600-699
- F  0-599

The final grading scale may be adjusted in order to lower the point threshold for a letter grade. Any changes will work in the students’ favor. If you believe there has been an error in the grading of your work, please consult Dr. McCunn. Homework problems may or may not be graded. Answers to homework problems and quizzes will be posted at MU Online and Dr. McCunn’s office.
Course Schedule

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<th>Chapter / Activity</th>
<th>Lab</th>
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* Wednesday, April 6 is reserved for Assessment Day. Regular classes will not meet, but students are expected to participate in University-wide assessment activities. Students may obtain a list of activities from their respective department chairs. Undecided students should go to their college offices for a list of Assessment Day activities. Regularly scheduled classes will resume at 4:00 P.M.

Lab Policies

Goggles are required at all times in the lab. Proper attire is expected. Open-toed shoes, shorts, bare midriffs, etc. are forbidden. Disregard for safety in the lab may result in a failing grade or removal from the class.

Lab Notebook Requirements

The ability to keep a proper laboratory notebook is essential to any scientist. All laboratory observations must be recorded *in ink, as they occur*. The following items must be recorded for each experiment.

- date
- a very brief description of the experimental goal
- an account of *what you did* in the lab
- data (spectra may be printed and taped/stapled into the notebook)
- calculations
- acknowledgments if necessary, e.g., fellow students sharing data

Remember, the purpose of a lab notebook is to give enough information so that another person may read the notebook and be able to repeat the experiment or extract useful data. The notebook should contain an up-to-date table of contents. The instructor may check lab notebooks at any time during the course.