SYLLABUS

PHYSICAL CHEMISTRY II

PHYSICAL CHEMISTRY LABORATORY II

Spring 2011

CRN: 2111  CHEM 4112 / 001  MWF  10:00 am – 10:50 am @ D-138
CRN: 2112  CHEM 4112L / 071  R  2:00 pm – 4:50 pm @ E-220

Instructor: Lu Kang, Ph. D.  URL: http://www.spsu.edu/chem/Kang.html
Office ☑: 678–915–3276  E-mail: lkang@spsu.edu
Office ☒: MWF 11:00 – 11:50 am, W 3:00 – 3:50 pm, R 1:00 – 1:50 pm @ E-181

DESCRIPTION & OBJECTIVE:

Physical Chemistry II is the 2nd course in a two-semester sequence of physical chemistry which is designed for chemistry majors to study the physical principles that govern the properties and behavior of chemistry systems. The emphasis will be focused on the inquiry-based, hands-on activities which are integrated into lecture class and laboratory practice. The following topics will be covered in CHEM 4112: kinetic theory of gases, transport processes, reaction kinetics, introduction to quantum chemistry, and statistical mechanics. The course objective is to help chemistry majors understand the fundamental principles of chemistry and develop skills in critical thinking and problem solving.


GRADING:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A: 85 – 100</td>
<td>10%</td>
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<tr>
<td>B: 75 – 84</td>
<td>25%</td>
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<tr>
<td>C: 65 – 74</td>
<td>20%</td>
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<td>D: 55 – 64</td>
<td>25%</td>
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<tr>
<td>F: 0 – 54</td>
<td>20%</td>
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1. If you miss an exam or a quiz for any reason, you get a zero score. No make-up quizzes will be given. However, only ~90% of the total attendance and quiz records will be counted for grading evaluation.
2. Homework will be assigned every Wednesday and it will be due in class on the following Wednesday. The graded problem sets will be returned in class on the following Monday. Although late problem sets are accepted, it costs you 20% score off per day of delay.
3. A midterm grade will be posted via Banner prior to the Last Day to Withdraw w/o Academic Penalty. This grade will be given as “S” (satisfactory, 70% or better) or “U” (unsatisfactory, less than 70%), which is based only on graded quizzes, exams, problem sets, and lab reports, each appropriately weighed according to this syllabus. No grades will be dropped for this estimation and anything due but not received yet will be graded zero.
4. Students must pass the laboratory (> 60%) and take the final exam to receive the 4 credits of CHEM 4112.
5. Practice is one of the best ways to develop your analytical thinking skills. Don’t give up and leave a blank on your answer sheet when you get in trouble with your exams or problem sets.
If you write down your thoughts in case you are not sure of your answers, I’d like to evaluate your ideas. I reserve the right to give partial credits for your efforts even if the final answers are wrong. Keep in mind: *it is always more exciting to have some creative ideas than merely obtaining a correct answer!*

**HONESTY:**
1. Academic honesty as detailed in the Student Handbook is expected. The use of calculator programs as crib sheets will be considered cheating. The memories of programmable calculators may be cleared before exams. The use of cell phones or any electronic devices other than calculators during exams will be considered cheating.
2. You are encouraged to discuss homework assignments with others. However, it is unwise to copy others’ work, vice versa. If I get identical problem sets, all individuals involved in will be graded zero.

**CALENDAR:**  
https://zimbra.spsu.edu/home/calendar@spsu.edu/Registrar%20Calendar.html  
1. Thursday, 01/19/2011, is the **End of Drop/Add.**  
2. Monday, 01/17/2011, is the **Martin Luther King Holiday.**  
3. Tuesday, 03/04/2011, is the **Last Day to Withdraw w/o Academic Penalty.**  
4. Monday – Friday, 03/07 – 03/11/2011 are the **Spring Break.**  
5. Thursday, 04/28/2011, is the **Last Day of Class for this semester.**

**STUDENT HEALTH SERVICES:**
Health Services provides service for minor illnesses. A nurse is on duty (8:30 am – 5:00 pm) Monday – Friday in the Recreation and Wellness Center. Please call ☏: **678–915–7366** for help. If in a serious situation, please call Wellstar at **770–955–8620.**

**DISABILITY STATEMENT:**
Students with disabilities who believe that they may need accommodations in this class or laboratory are encouraged to contact the Disability Service Coordinator, Ms. Kalista Thomas, via ☏: **678–915–7244** to ensure that such accommodations are implemented in a timely fashion. Information on Disabilities Services can be found at [http://www.spsu.edu/attic/Dis_Svcs.html](http://www.spsu.edu/attic/Dis_Svcs.html).

**CAMPUS EMERGENCY MANAGEMENT:**
If something serious happens on campus, please call CAMPUS SAFETY at: **Ext. 5555** via campus IP phones whenever the campus network is available. Otherwise, you can always dial **678–915–5555** or **770–528–5555** to reach CAMPUS SAFETY. In SPSU, the campus safety officers can always find you, reach you, and help you quicker than anyone else.