Course Content  
CHE442G is a course designed for B.S. chemistry majors but that is also taken by other types of students. The University Bulletin describes the course content as “Principles of physical chemistry including thermodynamics, chemical kinetics, and statistical thermodynamics”.

Students who are successful in CHE 442G will understand energy relationships in macroscopic chemical systems and will be able to apply those relationships to analyze chemical and phase equilibria. These students will also understand how attainment of equilibrium can be limited by kinetics. Successful students will be able to do basic quantitative and qualitative problems related to the topics covered.

Prerequisites:  
CHE 226; MA 213; PHY 232 or 213.
These prerequisites are all important. Some of them (especially the MA 213 prerequisite) will be enforced. Since this is an upper-division course specifically designed for chemistry B.S. majors it is assumed that students will have a basic working knowledge of the material in all the 100- and 200-level courses of the chemistry curriculum.

Attendance:  
Students are expected to attend all class meetings. Attendance will be taken and will count for 5% of the final grade. Students arriving after 9:10 AM will be considered late; students arriving after 9:30 AM will be considered to have been absent. That said, it is still better to arrive late than not at all. Students who expect to miss a class or have missed a class are requested to notify the instructor by email (cpbrock@uky.edu) promptly.

Laptops. etc:  
No electronic device other than a simple calculator (ie, no computer, phone, iPad, MP3 player, etc) may be used during class unless a special arrangement has been made with the instructor.

Contact Data:  
It is assumed that electronic mail sent to the address listed in the UK Directory will be received. No email containing confidential information can be sent to any other address.

Excused Absences:  
The policy on excused absences is that described in the document Student Rights and Responsibilities. Students are expected to contact the instructor as soon as possible after a missed exam, but certainly within one week.

Problems:  
Problem assignments will be posted on the web (http://www.chem.uky.edu/courses/che442G). Problems will be collected and scored, but will not be graded in detail. Late homework will not be accepted. Copies of the solutions will be placed on the same webpage. Homework problems will count for 10% of the final grade. NB/ Problems that are essentially identical on two papers or that are essentially identical to the examples in the solutions manual will be awarded 0 points.

Hour Exams:  
Hour exams will be given as indicated on the syllabus; they will cover lecture and problem material. Students are not responsible for material in the textbook unless it has been covered in class or in assigned homework problems. Chapters to be covered on each exam are listed on the syllabus, but no material will be on an exam unless it has already been covered in class or in a problem assignment.

Students must provide their own inexpensive (< ca. $20) calculators. Calculators with alphabetic keyboards, extensive memory, high-resolution
screens, wireless connectivity, and/or plugs for external cables will not be allowed. No TI-73, TI-80 or higher series graphing calculator is permitted.

Three hour exams will be given

Graduate Students: While this class is primarily intended for undergraduate students, a few graduate students do enroll in the course. Because the University’s accrediting agency requires that graduate and undergraduate students be treated differently, graduate students enrolled in the course will have three extra assignments, which are to be turned in on paper by at the beginning of class on the day of each hour exam. Each assignment will consist of a 300-500 word essay summarizing the material covered on the hour exam and stating how that material is connected to the student’s field of study. Essays will be graded primarily on content, but errors of spelling and grammar will count as part of the essay grade. The essay grade will be included in the corresponding hour exam grade as 7.5% of the total. Late essays will not be accepted.

Final Exam: The final exam will be given from 8 – 10 AM on Monday, May 4. It will cover material from the entire semester.

Grading: Hour Exams (3 @ 20% each) 60%
Final Exam 25%
Homework 10%
Attendance 5%

Tentative plans for grade assignments:

<table>
<thead>
<tr>
<th>Final Average</th>
<th>Course Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>88.0-100.0</td>
<td>A</td>
</tr>
<tr>
<td>77.0-87.9</td>
<td>B</td>
</tr>
<tr>
<td>66.0-76.9</td>
<td>C</td>
</tr>
<tr>
<td>55.0-65.9</td>
<td>D</td>
</tr>
<tr>
<td>Below 55.0</td>
<td>E</td>
</tr>
</tbody>
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Dropping: A student dropping the course on or before February 4 receives no grade. A student dropping the course between February 5 and April 10 receives a W regardless of class performance. It is not possible to drop the class after April 10 unless special permission is obtained from the Dean of the student’s College.

Cheating: Students are hereby notified that the Chemistry Department considers any kind of cheating to be a very serious offense. The minimum sanction for a cheating offense is normally a course grade of E.

Special Needs: Any student with a disability who is taking this course and needs classroom or exam accommodations should contact the Disability Resource Center, Room 2 Alumni Gym, phone 257-2754. The instructor must be notified at least one week before an exam for which special accommodations are required.