**Class Starts October 3rd**

**INSTRUCTOR:** Justin P. Meyer  
Office: Chemistry and Chemical Engineering 122  
Phone: 394-2431  
Email: Justin.Meyer@sdsmt.edu

**Office Hours:** Monday, Wednesday, Friday 1-2:30 pm, or by appointment

**Course Description:** 341: Physical transformations of pure substances; simple mixtures and phase diagrams; chemical equilibrium and equilibrium electrochemistry.  
Duplicate credit for CHEM 341 and CHEM 342 not allowed.

**Course Prerequisites:** 341: Prerequisite: CHE 222. Prerequisite or corequisite: PHYS 213.

**TEXT:** Physical Chemistry, 4th Ed, Silbey, Alberty, Bawendi; Wiley

**COURSE POLICIES**

**Attendance:** Attendance at lectures is not required, but is expected.

**Grading:** Your final grade will be determined from a weighted average of your exam grades and your homework grades. Exams (midterm and final) will make up 70% of your overall grade while homework will make up 30%. Homework must be turned in by the specified due date and time.  
**Homework.** Collaboration with other students is allowed/encouraged. Remember the definition of collaboration is to work together, this means you need to contribute, not copy. If homework is done in a group, each student must hand in there own copy of the results (no homework with multiple names signed on it). Make sure homework is neat; you may lose points for homework that is hard to follow. LATE HOMEWORK WILL NOT BE ACCEPTED.

**Exams:** I will be giving a number of exams during the course of the class. These exams will be given at times decided in class prior to the exam. They may be either take home, in class, or a combination of both, again decided prior to the exam.

**Final Exam:** Will be a combination of take home and in class problems. Take home problems will be given out in class a week prior to the final exam time of Tuesday, December 13th at 5:00 pm. This exam will likely cover some new material, but be mostly comprehensive.

**Withdrawal Deadline:** The last day to drop this class with a grade of “W” recorded on your transcript is November 10th.
Objectives: The main objectives for the course are chemical and phase equilibrium, and electrochemical equilibrium. On top of this, other selected topics may be chosen as time allows.

*These dates are subject to change.*

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics</th>
<th>Chapters From Text</th>
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</thead>
<tbody>
<tr>
<td>Oct. 3rd – Oct. 19th</td>
<td>Chemical Equilibrium</td>
<td>5</td>
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<tr>
<td>Oct. 21st – Nov. 2nd</td>
<td>Phase Equilibrium</td>
<td>6</td>
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<td>Nov. 3rd – Nov. 30th</td>
<td>Electrochemical Equilibrium</td>
<td>7</td>
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<tr>
<td>Dec. 2nd – Dec. 9th</td>
<td>Selected Other Topic(s)</td>
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ADA Statement: Students with special needs or requiring special accommodations should contact the instructor, (Justin Meyer, at 394-2431) and/or the campus ADA coordinator, Jolie McCoy, at 394-1924 at the earliest opportunity.

Freedom in learning. Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact dean of the college which offers the class to initiate a review of the evaluation.

Electronic Devices Policy: Please turn off your cell phone before class starts. No text messaging in class. No headphones. If you wish to use a laptop in this class for purposes of note taking you will have to have your screen in the locked down position. Note that according to “Policy Governing Academic Integrity” in the SDSM&T Undergraduate Catalog, the instructor of record for this course has discretion of how acts of academic dishonesty are penalized, subject to the appeal process, and that “Penalties may range from requiring the student to repeat the work in question to failure in the course” (72-73). No other use of any other electronic/computer media is allowed during class time.