Introduction

Welcome to Chemistry 202 - 5.0 unit CSU, UC transferable course! This course is a continuation of general chemistry with a special focus on transition metals, chemical kinetics, equilibria, thermodynamics, electrochemistry, nuclear chemistry, and introduction to organic.

Course Description

At the end of the course, students will be able to

- Analyze and evaluate the laws of reaction kinetics for irreversible and reversible reactions, including reactions occurring in aqueous media, and in nuclear reactions.
- Examine the laws of thermodynamics to predict the spontaneity of chemical processes, including electrochemical processes.
- Evaluate the theories of bonding for coordination compounds.
- Formulate conclusions according to scientific inquiry by collecting and interpreting gravimetric, volumetric, and spectroscopic chemical data.
- Justify the identify of unknown cations and anions using experimental evidence from qualitative analysis, the scientific method, and chemical reasoning.
- Compose laboratory reports that illustrate meaningful conclusions based on and supported by data and observations.

Course Information

Recitation and Problem Solving Workshops

There will be short online quiz on specific problem topics. Please consult the quiz schedule on canvas. The quiz will be based on the worksheet problems posted on the specific topic.

Unit Exams
There will be FOUR face-to-face EXAMS.
Each exam will be based on the material covered in online tutorials and presentations.
They will include homework, & laboratory experiments. These will be given during lab.
There are NO make-up exams.

Only non-programmable, non-graphing calculators will be allowed during exams. If you fail to bring the appropriate calculator, be prepared to take the exam without a calculator.

Final Exam

There will be a cumulative Final Exam (2 hrs).
The final is on Thurs., 12/7/2017, BOYH 301.

Grading

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15%</td>
</tr>
<tr>
<td>Lab Experiments</td>
<td>20%</td>
</tr>
<tr>
<td>Worksheets</td>
<td>10%</td>
</tr>
<tr>
<td>Participation/Quizzes</td>
<td>5%</td>
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<tr>
<td>Sapling Homework</td>
<td>10%</td>
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Textbook information

- Chemistry –by Paul Flowers (Open Stax College, Rice University)
  Available at the bookstore or also available as ebook in iBook for $4.99.
- Laboratory Experiments provided as handouts available in the course website in Canvas.
- Scientific calculator.
- Safety goggles required for each laboratory experiment. No one is permitted to conduct a lab experiment without goggles and will receive a zero for the experiment missed.
- Homework is available at saplinglearning.com. Create an account under higher education, at College of the Canyons. Choose:
  College of the Canyons – Chemistry 202 – Spring 2017 – ESPANOL (available for $40 for one semester)
- Canvas Access
All required materials must be brought to class each day. All required materials must be purchased by the 2nd class.

Other relevant course information

All information about the class can be accessed via canvas by logging into coc.instructure.com. The modules are divided into Pre-Lab, Post Lab, Worksheets, Tutorials and Practice Exams. Worksheets must be completed and submitted online on Tuesday by 11:59 PM. Pre-lab must be completed by 6:30 PM on Thursday, prior to beginning the lab experiment. Post Lab reports and questions must be submitted online, one week after completion of the lab experiment.

Additional Resources

Canvas
The course can be accessed via Canvas at cv.canyons.edu on the first day of the course. Follow the login instructions at the bottom of the screen to log in. Here, you can also access Canvas user guides with helpful tips for navigating and using Canvas. For any Canvas related issues please call the Canvas Student Support line at (661)362-3344 during college business hours, or (877)889-9052 for 24/7 support.

Distance Learning
Check out the Distance Learning website for more information on a variety of topics that can help you be a successful online student such as: exam proctoring, learning styles, computer skills, and tips for student success. If this is your first online course, feel free to take our online learning readiness assessment to assess your skills.

The Learning Center (TLC)
The TLC provides FREE tutoring resource to COC students including:
- Face-to-face & ONLINE tutoring
- Testing Center: offers test proctoring services for courses that have required proctored exams
- Study Jam Review Sessions
- Computers with over 300 software programs
For more information visit the TLC Website.

Disabled Students Program & Services (DSPS)
College of the Canyons DSPS provides educational services and access for eligible students with documented disabilities who intend to pursue coursework at COC. A variety of programs and services are available which afford eligible students with disabilities the opportunity to participate fully in all aspects of the college programs and activities through appropriate and reasonable accommodations. For more information on their services visit the Disabled Students Program & Services website.
Online Counseling

The Counseling Department offers appointments online. You can schedule an appointment by visiting the Online Counseling website. Counselors can help you map out a plan to reach your educational goals as well as advise you on course selection and registration.