Online Section

Mandatory On-Campus Meetings – 172 SEB

Saturday, April 29, 10:00 a.m. – Orientation
Thursday, May 25, 7:00-9:00 p.m. – Midterm Exam
Wednesday, June 21 6:30-9:30 p.m. – Final Exam

If you miss the midterm exam or the final exam, you will be assigned a zero grade for the exam missed. For both exams you must show a photo ID card to enter the exam room.

Instructor: Joel W. Russell 244 SEB 248-370-2086 WebCT email
Office Hours: By appointment – call or email to schedule an appointment

Textbook: Chemistry for Engineers, 1th Ed., Shultz, Houghton Mifflin

Online Courses

Online sections are offered to provide an opportunity for those whose work schedule or other obligations do not permit them to attend an on-campus section. To succeed in an on-line course you must have a high degree of self-discipline and motivation. This is even truer for chemistry where material later in the course builds upon earlier material. You must keep up-to-date with assignments or you will discover that you will likely fail the course. If you do not believe that you can devote sufficient time to this course throughout the term to complete weekly homework assignments and quizzes, you should immediately drop the course. If you have any doubt about your self-motivation, you should consider taking the classroom sections of CHM 143 which are offered each fall and winter semester.

Course Components

WebCT

You may access the course materials on WebCT from any computer with an internet connection using the URL: webct.oakland.edu. At the login screen you will use your SAIL username and password. Once in WebCT you will find all your current courses listed. Select “Chemical Principles (CHM-143)” for this course. The following components of WebCT will be available:

1. Syllabus – on-line copy of this syllabus
2. Calendar – availability dates for chapter notes, homework, and quizzes with due dates for homework and quizzes along with date of Midterm and Final Exam.
3. Mail – email box for communication with the course instructor. The instructor will make every effort to respond to email messages each morning and evening.
4. Chapter Notes – PowerPoint slides showing the learning objectives for each chapter along their corresponding textbook sections; summaries of important principles, concepts, and problem solving methods for chapter topics; many visual aids to assist your mastery of chapter topics; and examples and questions on chapter topics.
5. **Quizzes** – quizzes for this course are one hour duration and may be taken at any time between 12:00 noon on a Sunday and 11:55 p.m. on the next day, Monday. If you wish the full hour to take the exam, you must start it before 10:55 on Monday. At the midterm exam and final exam you will be asked to sign a statement that you completed the quizzes without assistance from others. Quizzes are all open book and you should have your textbook available as you take the quizzes to use the periodic table inside the front cover and Appendix B (Fundamental Constants, p. 474) and Appendix C (Relationships, p. 475).

6. **Grades** – all your homework and quiz grades will be available for you to view on WebCT. Should you suspect a grade has been entered in error, you should immediately contact the instructor by email. At any time during the semester you can calculate your current grade using the grade scale given below.

7. **Notes on Homework** – comments and hints about homework problem will be posted when the assignments are posted. After each assignment is due notes will be posted on the solutions.

8. **Notes on Quizzes and Midterm Exam** – comments on solutions to quizzes and midterm available after their completion.

9. **e-Learning Orientation** – standard document provided by the university that shows you the computer requirements for use of WebCT, the browser settings that you might need to adjust on your computer, and other information.

**WebAssign**

Homework for this course will be obtained and submitted over the internet using a service, WebAssign, operated from North Carolina State University. The instructor will select problems from the textbook for each chapter. Problems will be made available at 6:00 a.m. on seven consecutive Saturdays beginning April 29 and ending June 10. All homework assignments must be submitted via the internet by 11:59 p.m. on the Sunday eight days after they are made available. Each homework assignment is worth 25 points. The six highest homework assignments out of the seven total will count toward your grade.

To logon to WebAssign you use the URL: webassign.net/student.html. At the login screen use as a username the first initial of your first name and up to seven letters of your last name. Then type “oakland” for the institution. Both your username and institution should be typed in all lower-case letters. Your password is the final 6 digits of your Grizzly ID number. Everyone will have access to WebAssign for the first week of the class. After that you must register with WebAssign using an access code. You can either purchase the access code online with a credit card or can purchase a WebAssign access code card at the cash registers of the OU Book Center. The card contains a 10 digits code covered with a layer of paint like a lottery card.

Variables in the homework problems are randomly assigned to you when you first open an assignment. Thus all homework assignments are individualized. If you reopen the same assignment you will see the identical problems. You are encouraged to print out the assignment and then work it offline. Go back online to submit your answers. As soon as you have submitted the answers each question will be marked right or wrong. If you missed any questions, you may rework them and resubmitted your answers. A total of three submissions is allowed before the cut-off date and time for each assignment. Your last submission will be
graded. If you have problems with any questions, you are free to discuss it with anyone that knows chemistry, to email the instructor your question, or schedule an appointment with him. The instructor’s office is 244 SEB.

Tentative Schedule (See calendar for more details of chapter sections covered)

<table>
<thead>
<tr>
<th>Date</th>
<th>Chp.</th>
<th>Notes Posted</th>
<th>Date Homework Due</th>
<th>Dates for Online Quiz</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 29</td>
<td>Chp. 1</td>
<td>May 7 Midnight</td>
<td>May 7 Noon – May 8 Midnight</td>
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<tr>
<td>May 6</td>
<td>Chp. 2</td>
<td>May 14 Midnight</td>
<td>May 14 Noon – May 15 Midnight</td>
<td></td>
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<tr>
<td>May 13</td>
<td>Chp. 3 &amp; 4.1</td>
<td>May 21 Midnight</td>
<td>May 21 Noon – May 22 Midnight</td>
<td></td>
</tr>
<tr>
<td>May 20</td>
<td>Chp. 5 &amp; 6</td>
<td>May 28 Midnight</td>
<td>May 28 Noon – May 30 Midnight</td>
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<tr>
<td>May 25</td>
<td>MIDTERM EXAM – Chp. 1-4</td>
<td>May 21 Midnight</td>
<td>7:00-9:00 PM – 172 SEB</td>
<td></td>
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<tr>
<td>May 27</td>
<td>Chp. 7</td>
<td>June 4 Midnight</td>
<td>June 4 Noon – June 5 Midnight</td>
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</tr>
<tr>
<td>June 3</td>
<td>Chp. 8</td>
<td>June 11 Midnight</td>
<td>June 11 Noon – June 12 Midnight</td>
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<tr>
<td>June 10</td>
<td>Chp. 12</td>
<td>June 18 Midnight</td>
<td></td>
<td></td>
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<tr>
<td>June 22</td>
<td>FINAL EXAM – Chp. 1-8, 12</td>
<td>June 18 Midnight</td>
<td>6:30-9:30 PM – 172 SEB</td>
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Quizzes
There will be six weekly quizzes covering the learning objectives, chapter notes, and homework from the previous week’s chapter(s) in the textbook. If you take all seven quizzes, your six highest scores will count. Each quiz will be made available at noon on a Sunday and must be completed by 11:55 p.m. on the next day, Monday. On Memorial Day weekend the quiz ends at midnight Tuesday. Once you start a quiz you will have one hour to complete it. Most quiz questions will be multiple choice. Questions will be displayed one at a time and it is essential that after selecting your answer to each question you submit that answer. The quiz will show you the numbers for all questions and show which have been answered. You may return and revise answers to questions as many times as you wish within the one-hour limit. All quizzes are worth 25 points. You will receive a zero score for any missed quiz.

Optional Chemical Visualization Experiment
On June 4 a computer visualization experiment covering the topics of chapter 8 will be made available. This experiment will be worth 25 points. If you complete and submit the experiment, its score will replace the score for your lowest quiz as long as it is higher than the quiz score. Since part of the final exam will cover chemical visualizations it is to your advantage to do this optional experiment.

Grades
This class is graded using an absolute rather than scaled grading. Components of the final grade and their weights are:

- Homework (6 highest of 7 at 25 pts.) 150
- Quizzes (6 at 25 pts.) 150
- Midterm Exam (150 pts.) 150
- Final Exam (300 pts.) 300

Total 750
The grade scale will not use 750 as the total points but a number less than 750 called the “highest reasonable score” (HRS). This allows problems to be discarded that might contain errors or are so poorly written that most students did not understand them. Each time a new item is added to the WebCT grade book the percent of HRS column will be updated. During the course the HRS values will cover all grades and not consider the homework score that will be dropped or quiz score replaced by the visualization experiment. The final HRS value will reflect the dropped score and potential replaced quiz score.

The final course grade depends upon two percentage numbers – the percent of the HRS and the percent of the final exam score. The course grade is determined by the percent of HRS shown below as long as the percent of the final exam exceeds the minimum values shown. If the percent of the final exam is higher than the percent of HRS, the final exam percent will replace the HRS percent to determine the grade.

<table>
<thead>
<tr>
<th>Grade</th>
<th>%HRS</th>
<th>%Final</th>
<th>Grade</th>
<th>%HRS</th>
<th>%Final</th>
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</thead>
<tbody>
<tr>
<td>4.0</td>
<td>95%</td>
<td>85%</td>
<td>2.0</td>
<td>60%</td>
<td>45%</td>
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<tr>
<td>3.6</td>
<td>85%</td>
<td>75%</td>
<td>1.5</td>
<td>53%</td>
<td>25%</td>
</tr>
<tr>
<td>3.0</td>
<td>75%</td>
<td>60%</td>
<td>1.0</td>
<td>45%</td>
<td>25%</td>
</tr>
<tr>
<td>2.5</td>
<td>68%</td>
<td>45%</td>
<td>0.0</td>
<td>&lt;45%</td>
<td></td>
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**Cheating**

Cheating is observed in many classes and is taken very seriously. Anyone suspected of cheating will be reported to the university and could be subject to penalties up to dismissal. Please see the section on Academic Conduct on pages 70-72 of the University Undergraduate Catalog. For the four components of the grade in this class different rules apply. On homework the only control for having someone else do your assignment is that you will probably not have as good an understanding of the assignment as you would had your worked it yourself. This will show on your exams. You are free to discuss the homework with anyone you wish. If you know other students taking CHM 143, you are encouraged to study with them. Each student will have an individual assignment. The instructor is available to discuss homework with students before they make their final submission.

Quizzes, on the other hand, should be worked by you without assistance. You are on the honor system for this. At the midterm exam and the final exam you will be asked to sign a statement that you did the quizzes on your own without assistance. For the midterm exam and final exam you will be require you to show a photo ID. No one without a photo ID will be permitted to take the exam. These exams will be proctored to prevent cheating. The midterm exam will be photocopied before it is returned. The final exam will not be returned but may be inspected in the instructor’s office once final grades are submitted.