CHEM 1151 - Survey of Chemistry I
Course Syllabus – Spring 2014

Instructor:

Dr. Michael Kirberger
Office phone: 678-466-4873
Office: NBS 145
Email: MichaelKirberger@mail.clayton.edu
Internet: http://faculty.clayton.edu/mkirberger/home

Office Hours:
Monday: 09:00 am – 12:00 pm
Monday: 02:00 pm – 04:00 pm
Thursday: 01:00 pm – 02:00 pm
or by appointment

Textbook Information:
ISBN: 978-1-133-60227-9

Course Description:
CHEM 1151 is the first course in a two-semester sequence covering elementary principles of general, organic and biochemistry designed for allied health science majors (and non-science majors). Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular geometry.

Chemistry 1151 is a 3-hour credit science course for Area D1 of the Core Curriculum of Clayton State University. This course is usually not taken by science majors. If you are majoring in a science or engineering field, check with the instructor to be sure you are in the correct course.
**Course Prerequisite:**
Exit or exemption from Learning Support Math

**Course Co-requisite:**
CHEM 1151L

**Note:** Due to the co-requisite nature of CHEM 1151 and CHEM 1151L, students dropping one of the two courses must also drop the other.

---

**Disability Services:**

*Individuals with disabilities who need to request accommodations should contact the Disability Services Coordinator, Student Center Room 255, 678-466-5445, disabilityservices@clayton.edu.*

**Tutoring/Supplemental Instruction (SI):**

The Center for Academic Success (CAS) provides tutoring for this course. Appointments can be made through TutorTrac at: http://tutoring.clayton.edu or by contacting the CAS at (678) 466-4070, lower level of the library.

The **Supplemental Instruction leader** for Spring 2014 semester, CHEM 1151, CRN #20341, is **Ashley Moore**.

SI will begin Monday, January 27th. Our weekly schedule is as follows:

- **Monday** 11:00 AM - 12:00 PM  
  Location: Center for Academic Success, Room B

- **Thursday** 10:00 AM - 11:00 AM  
  Location: Center for Academic Success, Room A

Note: The Center for Academic Success is now located in Edgewater Hall, formerly the Student Center (same building where the bookstore is located), on the 2nd floor in **Suite 276**.

The **Supplemental Instruction leader** for Spring 2014 semester, CHEM 1151, CRN #21721, is **Tracye Lamar**.

The SI leader will meet with students during the recitation each Thursday in G227 of the Arts & Sciences building.
**Notebook Computer Requirement:**

Each CSU student is required to have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program. Students will sign a statement attesting to such access. For further information on CSU's Official Notebook Computer Policy, please go to [http://itpchoice.clayton.edu/policy.htm](http://itpchoice.clayton.edu/policy.htm).

The course web page offers you many instructional aides: study sheets, study sheet answers, copies of sample examinations, data reference sheets, etc. It is your responsibility to become familiar with these materials.

Everyday coursework in class will not require the use of a computer. Therefore, unless there is a compelling reason, cleared through the instructor, students should not have their computers open during the lectures or exams.

**Computer Skill Prerequisites:**

1. Able to use the computer's operation system (Windows®)
2. Able to access and send e-mail (Outlook® or Outlook Express®)
3. Be able to attach and retrieve attached files via e-mail.
4. Able to use a Web browser (Internet Explorer®) and search engine
5. Able to download files from a web site to your computer
6. Able to use a word processor system (Word®)
7. Able to use a spread sheet system (Excel®). Your instructor may have access to more font sets than your computer currently holds. Therefore, there may be some differences in the appearance of symbols when viewing sample exams and exercise sheets. If this is a problem, consult the instructor.

You should develop the habit of checking your e-mail daily. Because of the number of students we typically have, there may be some delay in the instructor's response to an individual's e-mail. Do not send time-sensitive information via e-mail--use the old system of the telephone. A delivered e-mail does not relieve you of the responsibility of informing the instructor about some concern. On the other hand, the instructor may send e-mails with information vital to your success in the course. Check your e-mail often, at least once a day. Instructors will only respond to CSU e-mail addresses.

**In-class Use of Student Notebook Computers:**

Computers will be required to access course materials and to communicate with your instructor. Everyday coursework in class will not require the use of a computer. Therefore, unless there is a compelling reason, cleared through the instructor, students should not have their computers open during the lectures or exams. Computers and/or cell phones cannot be used as a calculator for exams.
Course Learning Outcomes:

After completing the course, student will:

- Effectively demonstrate the use of dimensional analysis to solve problems.
- Exhibit an understanding of the basic atomic structure of matter.
- Exhibit an understanding of basic chemical reactions: types and calculations inherent within the chemical reaction (stoichiometry).

Program Learning Outcomes:

General education outcomes:

The following links provide tabular descriptions of the communications outcome and the critical thinking outcome components (see Chem 1151 in the tables):

- Communications outcomes components
- Critical thinking outcomes components

Class Meetings:

<table>
<thead>
<tr>
<th>CRN</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>20341</td>
<td>02</td>
<td>TR</td>
<td>0825-0940</td>
<td>B10</td>
</tr>
<tr>
<td>20349</td>
<td>03</td>
<td>TR</td>
<td>1410-1525</td>
<td>B10</td>
</tr>
<tr>
<td>21721</td>
<td>05</td>
<td>TR</td>
<td>1410-1525</td>
<td>B10</td>
</tr>
<tr>
<td>21721</td>
<td>05</td>
<td>R</td>
<td>1200-1300</td>
<td>G227</td>
</tr>
</tbody>
</table>

Laboratory Requirement:

The student should note that the laboratory is a co- or prerequisite for this course. If you are currently enrolled in the laboratory, you should take special note that if you withdraw from either the course or the laboratory, you must withdraw from the other.
Evaluation:

Your grade in CHEM 1151 will be based upon the following components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Assessments (3) @ 100 points</td>
<td>300</td>
</tr>
<tr>
<td>Homework</td>
<td>150</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>700</td>
</tr>
</tbody>
</table>

Grading:

The grade you receive in Chemistry 1151 will be based upon the following distribution:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
<th>Point Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% or greater</td>
<td>630 - 700</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89%</td>
<td>560 - 629</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79%</td>
<td>490 - 559</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69%</td>
<td>420 - 489</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
<td>&lt; 420</td>
</tr>
</tbody>
</table>

Assessments:

There will be three (3) classroom assessments and one 2-hour final (comprehensive.) The assessments will be announced approximately one week in advance whenever possible and attendance is mandatory. Make-up assessments will not be given. Students will be given the opportunity to replace one of the 3 classroom assessment grades with the percentage that they earn on the final exam, which would include a missed assessment. The final grade will therefore include 3 assessments at 100 points each, 10 quizzes worth 100 points, OWL homework worth 150 points and a final exam worth 150 points. A missed final exam will result in a zero for the final exam unless prior arrangements have been made with the instructor.

Make-ups / Late work:

Due to the difficulty in making up new assessments, missed exercises will be graded as a zero or other arrangements will be made at the discretion of the instructor, most likely this is an increased percentage worth of the final exam.

Homework/Quizzes:

Reading assignments are tentatively made on this syllabus. Homework problems will be assigned in OWL and posted on the instructor's website. All assignments will be due at the time posted on in the OWL software package. Quizzes will be accessible online through GAView and will be announced in class by the instructor.
Mid-term Progress Report:

The mid-term grade in this course will be issued on or before March 7 and reflects approximately 33% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar, by mid-term, which occurs on March 7, 2013.

Tentative Course Schedule:

This schedule is general and tentative. The subject matter may vary some from this schedule.

Please read each chapter before the material is covered in class!

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/13</td>
<td>Introduction, Matter, Measurements, and Calculations</td>
<td>1</td>
</tr>
<tr>
<td>01/20</td>
<td>Matter, Measurements, and Calculations</td>
<td>1</td>
</tr>
<tr>
<td>01/27</td>
<td>Atoms and Molecules</td>
<td>2</td>
</tr>
<tr>
<td>02/03</td>
<td>Atoms and Molecules</td>
<td>2</td>
</tr>
<tr>
<td>02/10</td>
<td>Electronic Structure and The Periodic Law</td>
<td>3</td>
</tr>
<tr>
<td>02/17</td>
<td>Electronic Structure and the Periodic Law</td>
<td>3</td>
</tr>
<tr>
<td>02/24</td>
<td>Forces between Particles</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Exam 1 (Chapters 1, 2, 3)</td>
<td></td>
</tr>
<tr>
<td>03/03</td>
<td>Forces Between Particles, Chemical Reactions</td>
<td>4, 5</td>
</tr>
<tr>
<td>03/08-03/16</td>
<td>Spring Break – No Class</td>
<td></td>
</tr>
<tr>
<td>03/17</td>
<td>Chemical Reactions</td>
<td>5</td>
</tr>
<tr>
<td>03/24</td>
<td>The States of Matter</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Exam 2 (Chapters 4, 5)</td>
<td></td>
</tr>
<tr>
<td>03/31</td>
<td>The States of Matter</td>
<td>6</td>
</tr>
<tr>
<td>04/07</td>
<td>Solutions and Colloids</td>
<td>7</td>
</tr>
<tr>
<td>04/14</td>
<td>Solutions and Colloids</td>
<td>7</td>
</tr>
<tr>
<td>04/21</td>
<td>Acids, Bases and Salts</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Exam 4 (Chapters 6, 7)</td>
<td></td>
</tr>
<tr>
<td>04/28</td>
<td>Acids, Bases and Salts</td>
<td>9</td>
</tr>
<tr>
<td>TBA</td>
<td>Final Exam</td>
<td>1-7, 9</td>
</tr>
</tbody>
</table>
Course Policies:

General Policy:

Students must abide by policies in the Clayton State University Student Handbook.

University Attendance Policy:

Students are expected to attend and participate in every class meeting. Instructors establish specific policies relating to absences in their courses and communicate these policies to the students through the course syllabi. Individual instructors, based upon the nature of the course, determine what effect excused and unexcused absences have in determining grades and upon students’ ability to remain enrolled in their courses. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades.

Course Attendance Policy:

Arriving to class on time is your responsibility. Coming in late is disturbing to the entire class and detracts from the learning experience. If tardiness becomes habitual, the instructor may institute measures to correct this problem. This could range from refusal to allow admittance to class on that day or a deduction of points from the grade.

Class roll will be taken, however, attendance is not required except for classroom assessments. You are responsible for all attendance requirements for external programs (i.e. financial aid). You will be held responsible for all announcements and material covered in lecture in addition to text, references, hand-outs, study guides and assignments.

Calculators:

Electronic calculators are permitted (encouraged) for homework and assessments. Scientific calculators are highly encouraged. You may NOT use a calculator memory for storage of data or information (formulas) for use on assessments or the final. This would result in an automatic zero grade on the assessment. The battery and working of your calculator will be your responsibility. You will find it useful to have your calculator in class. You may not use your computer or cell phone calculators for exams.

Visitors:

Friends, children, etc. are strictly prohibited from attending class without the permission of the instructor.

Academic Misconduct:
Any type of activity that is considered dishonest by reasonable standards may constitute academic misconduct. The most common forms of academic misconduct are cheating and plagiarism. All instances of academic dishonesty will result in a minimum punishment of a grade of zero for the work involved. All instances of academic dishonesty will be reported to the Office of Student Life/Judicial Affairs. Judicial procedures are described at http://adminservices.clayton.edu/studentlife/judicial_affairs.htm.

Specific forms of cheating on exams include, but are not limited to, copying, using supplemental materials, or using any internet or phone device. Reaching for, appearing to use, or using a cell phone is considered cheating and will be punished as stated above. It is imperative that you silence your cell phone during class and exams. It is extremely disruptive to students and myself when cell phones ring. If your cell phone continues to ring during class, you may be asked to leave the room. If you cell phone rings during an exam, you may also be asked to leave the room. This means that you exam is over regardless of the progress you have made on the exam.

**Punctuality:**

Arriving to class on time is your responsibility. Coming in late is disturbing to the entire class and detracts from the learning experience. If tardiness become habitual, the instructor may institute measures to correct this problem. This could range from refusal to allow admittance to class on that day or a deduction of points from the grade.

**Courtesies to Your Classmates:**

1. Arrive to class on time.
2. Avoid disruptive behavior in class: talking, snoring, children, etc.
3. Please ensure that your cell phones and other electronic devices do not become a distraction in class. Should one of these devices go off during class, the offending student may be penalized by:
   a. Having points deducted from his/her grade.
   b. Being asked to leave the classroom and being reported for disruptive behavior.
4. If you must leave early, please leave quietly by a back door if possible.
5. Use the pencil sharpener before class begins.

**Disruptions of the Learning Environment:**

Behavior which disrupts the teaching–learning process during class activities will not tolerated. While a variety of behaviors can be disruptive in a classroom setting, more serious examples include belligerent, abusive, profane, and/or threatening behavior. A student who fails to respond to reasonable faculty direction regarding classroom behavior and/or behavior while participating in classroom activities may
be dismissed from class. A student who is dismissed is entitled to due process and will be afforded such rights as soon as possible following dismissal. If found in violation, a student may be administratively withdrawn and may receive a grade of WF.

A more detailed description of examples of disruptive behavior and appeal procedures is provided at:

http://a-s.clayton.edu/DisruptiveClassroomBehavior.htm

Student Survey Requirement:

Students have the responsibility to complete the Student Survey and Course/Instructor Evaluation for each course and each instructor every semester. If this in not done during the allotted time period, the student will be restricted from seeing their final course grade for a period of approximately one week after final exams have ended. Instructors are not allowed to give course grades to those who did not complete these evaluations. Also, no grades of any kind will be given out over the telephone or email due to federal privacy laws.