# Course Syllabus

**Course Title**: General Chemistry I  
**Course Number**: CHM 1045  
**Prerequisites / Co-requisite**: Test into College Level Math / General Chemistry I Lab  

**Credit Hours**: 3.0  
**Contact Hours**: 45  

**Class Meeting Times**: MTWR 2:00-3:45 in D-101  
**Class Method**: Traditional classroom course (class meets in person)  

**Instructor**: Dr. Mark Frahn  
mark.frahn@fkcc.edu  
Office in C 222  
Office # 305-809-3536  

**Office Hours**: Posted on Office Door  

**Course Description**: The lecture portion of each class consists of approximately 75 minutes of lecture addressing topics from the required textbook. Atomic structure and molecular structure are studied, as well as the relation between mass and moles. The periodic properties of the elements, chemical reactions and chemical bonding are mastered and their relation to the three macro physical states of matter; gas, liquid, and solid.  

**Course Objectives**: Upon completion of the course, the student will be able to demonstrate knowledge—by successfully answering questions on an objective examination of the following topics:  

1. Have a sense of the historical development of the science of chemistry.  
2. Be able to write the formulae of salts and complete and balance chemical reactions.  
3. Understand the different ways scientists describe the concentrations of solutions and their use in reaction chemistry.  
4. Be knowledgeable of the periodic table of the elements and the law of periodicity and apply this knowledge to the reaction chemistry of the elements.  

**Required Textbook**: General Chemistry (10th edition)  
**Publisher**: Brooks / Cole  
**Authors**: Ebbing & Gammon  
**ISBN**: 978-1-111-58087-2
# Proposed Course Schedule

**Please note:** *The course schedule is subject to change to meet the needs of the course and its students. If you miss a class, it is YOUR responsibility to stay current*

<table>
<thead>
<tr>
<th>Date</th>
<th>Textbook Chapters &amp; Topics</th>
<th>Assignments</th>
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</thead>
<tbody>
<tr>
<td>5/12 &amp; 5/13</td>
<td>Chapter 1: Chemistry and Measurement</td>
<td>End-of-Chapter Homework Problems; 1.39, 1.43, 1.47, 1.53, 1.61, 1.67, 1.69, 1.77, 1.83, and 1.91</td>
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<tr>
<td>5/14 &amp; 5/15</td>
<td>Chapter 2: Atoms, Molecules, and Ions</td>
<td>End-of-Chapter Homework Problems; 2.41, 2.45, 2.53, 2.57, 2.65, 2.75, 2.83, 2.89, and 2.97</td>
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<tr>
<td>5/21</td>
<td>First Exam / Chapters 1-3</td>
<td>Homework Problems Due (Chapters 1-3)</td>
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<tr>
<td>5/22 &amp; 5/27</td>
<td>Chapter 4: Chemical Reactions</td>
<td>End-of-Chapter Homework Problems; 4.33, 4.39, 4.43, 4.51, 4.59, 4.61, 4.65, 4.73, 4.79, and 4.89</td>
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<td>5/26</td>
<td>Memorial Day (College Closed)</td>
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<tr>
<td>5/27 &amp; 5/28</td>
<td>Chapter 5: The Gaseous State</td>
<td>End-of-Chapter Homework Problems; 5.41, 5.47, 5.51, 5.61, 5.63, 5.69, 5.73, 5.75, 5.83, and 5.87</td>
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<tr>
<td>5/29 &amp; 6/2</td>
<td>Chapter 6: Thermochemistry</td>
<td>End-of-Chapter Homework Problems; 6.53, 6.57, 6.63, 6.65, 6.67, 6.71, 6.73, 6.75, 6.81, and 6.85</td>
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<td>6/3</td>
<td>Second Exam / Chapters 4-6</td>
<td>Homework Problems Due (Chapters 4-6)</td>
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<td>6/4 &amp; 6/5</td>
<td>Chapter 7: Quantum Theory of the Atom</td>
<td>End-of-Chapter Homework Problems; 7.39, 7.41, 7.43, 7.45, 7.49, 7.53, 7.59, 7.61, 7.63, and 7.69</td>
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<tr>
<td>6/9 &amp; 6/10</td>
<td>Chapter 8: Electron Configurations and Periodicity</td>
<td>End-of-Chapter Homework Problems; 8.43, 8.47, 8.49, 8.51, 8.53, 8.57, 8.61, 8.63, 8.65, and 8.83</td>
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<td>6/16 &amp; 6/17</td>
<td>Chapter 10: Molecular Geometry and Chemical Bonding Theory</td>
<td>End-of-Chapter Homework Problems; 10.33, 10.35, 10.37, 10.39, 10.41, 10.45, 10.49, 10.53, 10.55, and 10.61</td>
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<tr>
<td>6/18</td>
<td>Third Exam / Chapters 7-10</td>
<td>Homework Problems Due (Chapters 7-10)</td>
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<td>6/19</td>
<td>Final Exam</td>
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METHOD OF STUDENT EVALUATION

There will be three exams of equal weight contributing 100 possible points each, homework assignments also worth 100 possible points, in addition to a final exam worth 100 points to give a course total of 500 possible points. Letter grades will be assigned according to the following levels of performance: A (100-90%), B (89-80%), C (79-70%), D (69-60%) and a grade of F below 59%.

Exam Policy
- Each exam will take up one whole class meeting. All exams will be closed book/notes. The use of electronic devices is strictly prohibited during exams.
- Makeup exams may be offered to students with emergencies, but only if they can provide acceptable documentation of the emergency (e.g., hospital admit slip, etc.). The instructor reserves the right to change the format of any makeup exams (e.g., to essay questions).
- The final exam cannot be made up for any reason.

Reading Assignments and Homework
- To succeed in this course, you should do all assigned textbook readings and review class notes frequently.
- Homework is due within the first 10 minutes of the start of class on the due date. Students who must miss class on a due date can email the assignment by the start of class for full credit.
- Late homework is not accepted.

Participation
- Students earn points for each class they attend and participate in. Arriving late, leaving early, cell phone and non-class computer usage, as well as any other disruption of class will result in loss of points.
- Unexcused absences will result in a loss of participation points; excused absences (i.e., those with acceptable documentation of an emergency) will not result in point loss.
- Please note that the instructor may withdraw a student from a course for excessive absences (see FKCC Policies below). For our purposes, “excessive absences” is defined as 3 or more unexcused absences.

Students are expected to familiarize themselves with FKCC Policies, which can be found in the current Student Handbook.

Withdrawal Policy

Students may withdraw without academic penalty from any course by the established deadline published in the College’s calendar. This will result in a grade of 'W' for the course and will not count against the student’s GPA.

Students will be permitted a maximum of two withdrawals per course. Upon the third attempt, the student WILL NOT be permitted to withdraw in accordance with State of Florida regulations and will receive an earned grade for that course.

It is the responsibility of the student wishing to withdraw from the course to do so by the date published in the College Academic Calendar.

Students who abandon the course or do not withdraw themselves by the published deadline are subject to receiving a grade of F.