Instructor: Dr. Donovan A. Dixon
Office hours: (TuTh: 1:30 - 3:00 pm)*
Office: CHEMISTRY BLDG, RM 225 (across from the Theatre)
Email: donovan.dixon@ucf.edu; ph: 407-823-4052

Course Resources

Online homework/tutoring system: Mastering Chemistry course ID: MCDIXON43112
Please purchase an access code at the bookshop or at masteringchemistry.com, to use along with the course ID above. Always log in to mastering chemistry to see due dates for all 6 assignments. No extensions will be granted for missing the due dates. Introduction to Mastering Chemistry is not for a grade, but to introduce students on how to use mastering chemistry effectively.

Webcourses@UCF: Course materials, grades, related information, and, or announcements, are usually posted. Check out those announcements already posted. Visit daily/as often as possible.

NOTE: ALL students' academic activity must be documented at the beginning of each course. In order to document that every student BEGAN this course (CHM2041) please complete the academic activity (ASSIGNMENT 0 in webcourses) by the end of the first week of classes (Aug 28), or as soon as possible after adding this course. Failure to do so may result in a delay in the disbursement of your financial aid.

Course Goal
To make chemistry fun, understandable, and relevant via the investigation of the electronic structure of atoms, periodicity, chemical bonding theories, the chemistry of some carbon compounds and properties of gases.

This course also helps prepare students for taking Chem II, a standardized American Chemical Society (ACS) exam at the end of the General Chemistry sequence, as well as other chemistry and related science courses.

TOPICS
The topics to be covered in the course will include: the electronic structure of atoms, the periodic properties of the elements, chemical bonding theories and molecular geometries, gases, and the chemistry of some carbon compounds.
At a minimum, this will comprise chapters 7-10, sections of chapter 20 along with chapter 5 in the required course text.

ASSESSMENTS
A student ID is required for each test. Only non-programmable, scientific calculators (TI-30X series) will be allowed. Graphing calculators (such as Casio FX 9750, HP 50, and TI 83) and cell phones are not permitted, and should not be used in any test. Failure to comply will result in the award of an automatic “F”.

Course tests will be given during the regular class time in CB2 201. See below for tentative test dates. One of the first 6 tests will be dropped (the one with the lowest grade). The grade from the final test will NOT be dropped, as this is a comprehensive, mandatory test. There will be no make-up test, except for attendance at University events and legitimate medical emergencies! Documentation must always be provided.
Each in-course test is 50 minutes and will each be worth 100 points. Dates and chapter tested on are shown below. There is a test after each chapter is completed.

**Tentative Test Dates:** Tue. Sep 8 (ch 7); Tue. Sep 22 (ch 8); Th. Oct 8 (ch 9); Oct 29 (ch 10); Nov 12 (ch 20); Dec. 1 (ch 5). **FINAL:** Thursday, December 10, 4:00 pm to 6:50 pm, also in CB2 201.

**Confirm the official UCF Final Exam Schedule online @:**
(http://registrar.ucf.edu/exam/2015/fall)

Tests will be computer-graded, multiple-choice format, inclusive of calculations/conceptual questions taken from lectures, required course textbook (exercises, examples, end-of-chapter problems, self-assessment quiz) and/or other course resource material(s).

Each student must have a clean, flat, pink NCS Test Form (for computer graded tests/quizzes) and the correct pencil. It is advisable not to use a pen.

*On average, grades for tests should become available within a week, and are posted in the Grades section of webcourses.*

**Course Grading**

<table>
<thead>
<tr>
<th>Grading</th>
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<tbody>
<tr>
<td>5 of 6 in-course tests, 100 points each</td>
<td>500 points</td>
</tr>
<tr>
<td>Final exam (cumulative)</td>
<td>200 points</td>
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<tr>
<td>Mastering Chemistry</td>
<td>30 points</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>730 POINTS</strong></td>
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Based on the preceding, there cannot be any 'curve' for any exam, or, this chemistry course! The entire course is graded A, B, C, NC, or F (see UCF catalog).

Overall course grade will be computed based on percentage points from the best 5 tests, mastering chemistry, plus a final comprehensive exam on all the 6 chapters covered. The ± designation is used if necessary.

Grade calculation: add all points from best 5 exams + mastering chemistry + final:

\[
\frac{(total\ points\ earned)}{730} \times 100\ \%
\]

Letter Grade: [90-100 % = A; 80-89% = B; 70-79% = C; 60-69% = NC; < 60% = F]

**Success in CHM 2041!!**

Do not lobby/negotiate/petition for any of the above grades! The course grade is based only on the accumulated grades obtained throughout the semester. There are no other factors taken into account. Also, there is no extra or additional work for this course during the semester, or after Dec 7.

However, students who attend classes and work consistently from the first day, usually have a higher success rate in the course. So, get to lectures early, concentrate, stay focused, and pay attention to the material being covered. It is therefore strongly recommended that all students attend all lectures!! Being regularly absent or a habitual late-comer is not conducive to being successful.
Make the effort to UNDERSTAND the various concepts/principles (including all important definitions/mathematical equations), which are vital in learning chemistry. Learn how to apply these in various problems. **Memorizing** is definitely NOT the solution!

Review all required material early and often, before class and after class - from the very first lecture. Do not wait until the last few hours before a test to do the necessary revision.

Review the worked **exercises and examples** in the textbook. Also at the end of each chapter are lists of key terms, concepts and equations. These are helpful review tools.

Find time to work on the end-of-chapter problems. Perfect practice makes perfect. Rework and review these as many times as necessary to gain a full understanding of the subject matter. About 2-3 hours per day of careful review and practice, etc, are required to be successful, as there are absolutely no shortcuts.

Get assistance ASAP!! Therefore, make use of any/or all University and Departmental resources provided to enhance students' success.

Study groups, if properly utilized, may also prove helpful.

*It is assumed that all students in this course have learnt/understood all relevant mathematical operations/concepts and the material from CHM 2040 (see course text, chapters 7-10, 20, 5) This is essential in understanding the material in this course, then later on in Chem, Fund II and moving onwards to other courses. Therefore, if needed, the revision of any past material is always the responsibility of students, regardless of when/where the prerequisite course(s) was/were actually taken.*

**Textbook Problems and Exercises** (see table below)

These are relevant **practicing skills** questions from Problems by Topic (or others) at the end of each chapter in the textbook (TRO, 3rd edn). Work them out to enhance problem solving skills and reinforce **understanding** of all major concepts, and also in preparation for tests.

Please do the self-assessment quiz at the end of each chapter as well.

If you do not spend time working on these problems, there is a strong possibility that you may not be able to do the questions on the tests, and will not be very successful in the course overall.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Mandatory questions/problems (odd nos.)</th>
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<tbody>
<tr>
<td>5</td>
<td>29-91</td>
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<tr>
<td>7</td>
<td>35 - 71</td>
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<tr>
<td>8</td>
<td>41-89</td>
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<tr>
<td>9</td>
<td>35-103; 107- 115</td>
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<td>10</td>
<td>31 -79</td>
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<tr>
<td>20</td>
<td>35 – 61 (omit 49 &amp; 59)</td>
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Other Policies and Expectations

Students with Letters of Accommodation (LOA).
These are normally sent to the course Instructor in a timely fashion. Please comply with all agreed upon accommodations for all lectures and exams, whenever applicable.

Class room decorum: No cell phones, ipods, ipads, tablets, surfing the internet, playing games, ‘facebooking’, etc; no chatting to classmates; taking of pictures using cameras with flashbulbs - absolutely no disruptive behavior of any kind, out of respect for fellow classmates and Instructor.

Academic Integrity – Do not copy other students’ work & do not allow others to copy your work!! The use of all unauthorized aids in the exams is strictly prohibited. No talking is allowed during an exam. Please review the code of conduct!

* Office hrs by appointment at other times, and mutually convenient if anyone is unable to make those regular office hours indicated on the first page.

Important Dates

Withdrawal deadline: Monday, November 02 (11:59 pm).
Fall holidays: Monday, September 07; Wednesday, November 11; Thursday, November 26 – Friday November 27.
Last day of class: Monday, December 7.
Study Day: Tuesday, December 8.

N.B.
Please be reminded that the Instructor of Record for this course reserves the right to modify/change any part of this schedule/syllabus if the need arises!

Revised: 8/18/15