***Important Note:*** Chem. 102 (or 102H) is a prerequisite for Chemistry 261. C- or higher grade required. Students lacking the proper prerequisites will be dropped from this course.

**Texts & Resources:**
- Organic Chemistry, Paula Yurkanis Bruice…, 7th Ed. E-text online OK.
- Student Study Guide & Solutions Manual, to accompany Bruice, 7th Ed
- Pushing Electrons, Weeks, 3rd or 4th Edition (USED OK IF BLANK)
- "Molecular Structure Model Kit", (HGS set or other). (USED OK)
- Mastering Chemistry. Purchasable online or at UNC Store. Wait for instruction before buying.
- iClicker. Purchasable at UNC Store or use what you already have. (either version)
- One Course Pack… Organic Chem I Class Notes and Traynham Nomenclature book (combo) (Avail. at UNC Course Packs starting Jan. 8)
- A good, sturdy three-ring binder notebook & 8 1/2 by 11 inch pad of 3-hole paper.
- A pack or two of 4x6 or 3x5 index cards (recommended).

**Tentative Class Lecture Schedule (specifics will be regularly posted on Sakai):**

<table>
<thead>
<tr>
<th>Lecture Months</th>
<th>Text and Coursepack</th>
<th>Nomenclature</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>January-Exam I</td>
<td>Chapters 1,2,3,4</td>
<td>Chapters 1-4</td>
<td>Chapters 1-2</td>
</tr>
<tr>
<td>February/March-Exam II</td>
<td>Chapters 4,5,6,7</td>
<td>Chapters 1-9</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>March/April-Exam III</td>
<td>Chapters 8-11</td>
<td>Chapters 10,11</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>April-End of Classes</td>
<td>Chapters 11,13</td>
<td>Chapters 12,13,14,15</td>
<td>Review Chs. 1-4</td>
</tr>
</tbody>
</table>

Tentative Midterm Exam Dates: February 4, 9; March 10, 22; April 19, 21. (TBA)
NO CLASS on Tuesday, March 15 and Thursday, March 17 (Spring Break).
Last Day of Class: Tuesday, April 26.
FINAL EXAM: SATURDAY, April 30 at 8 am for 8 am lecture (Section 1).
THURSDAY, May 5 at noon for 2 pm lecture (Section 2).

**Graded Work:** There will be three mid-term exams each counting 15% of the final grade. An additional 15% of the final grade will come from the cumulative points earned on online homework (Mastering Chemistry) plus in-class participation (clicker) questions. If an exam is missed for any officially excused reason (sickness, family emergency, etc), the two other midterm exams will be counted as 22.5% each of the final grade. There are no makeup midterm exams.

The Final Exam is worth 40% of the final grade.

**Final Grade Calculation:**

<table>
<thead>
<tr>
<th>Grading Scale</th>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td></td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
<td></td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>80-82</td>
<td>B-</td>
<td></td>
</tr>
<tr>
<td>74-79</td>
<td>C+</td>
<td></td>
</tr>
<tr>
<td>66-73</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>60-65</td>
<td>C-</td>
<td></td>
</tr>
<tr>
<td>50-59</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>&lt;50</td>
<td>F</td>
<td></td>
</tr>
</tbody>
</table>

When the Final Grades are calculated, all fractional points are rounded to the nearest integer grade. (for example 89.49 rounds to 89)

**Chem 261 Grade Stats:**

(Austell last 3 classes)

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A’s 10.7%</td>
<td>A’s 6.5%</td>
</tr>
<tr>
<td>A+’s 14.5%</td>
<td>B+’s 6.7%</td>
</tr>
<tr>
<td>B’s 10.2%</td>
<td>B-’s 8.9%</td>
</tr>
<tr>
<td>C’s 22.0%</td>
<td>C’s 3.6%</td>
</tr>
<tr>
<td>D’s 9.1%</td>
<td>F’s 7.8%</td>
</tr>
</tbody>
</table>

***You must pass the final exam (>50%) to pass the course.***
Attendance and In-Class Participation: Attendance in class is a key to success and will be confirmed by iClicker questions and active interactions with classmates and mentors. Missed iClicker points due to absences cannot be made up. There will be some allowance for a few missed points, and this will be explained in the first lecture. Register your iClicker on SAKAI at the beginning of the semester if not already registered from a previous class.

Mastering Chemistry: Mastering Chemistry will be used for online homework and as a study aid. Assignments will be due weekly and will be listed under the Assignments tab on SAKAI. This is a powerful resource to help confirm comprehension of the material when reading the chapters. Tutorial assignments will also be available on Mastering Chemistry and your use of them is encouraged. Tutorials will not be recorded as graded assignments. More instructions on the use of Mastering Chemistry will be given in class.

Email and Web Usage: Email and SAKAI (http://sakai.unc.edu/) will be used extensively to manage this course. Handouts, useful web links, assignments, grade information will be available at the SAKAI site. You'll need a UNC ONYEN and password to log into the sakai site. You can also participate in a class discussion FORUM at this site. Check it out.

Honor Code Issues:

Policy adopted by the faculty of the Department of Chemistry on Sept. 9, 1977:
"Since all graded work (including homework to be collected, quizzes, papers, mid-term examinations, final examinations, research proposals, laboratory results and reports, etc.) may be used in the determination of academic progress, no collaboration on this work is permitted unless the instructor explicitly indicates that some specific degree of collaboration is allowed. This statement is not intended to discourage students from studying together or working together on assignments with are not to be collected."

Other Honor Code Clarifications (READ CAREFULLY):
1) You may receive no outside assistance on any online homework assignments or take-home exams which will be counted toward your final grade. (Mastering Chemistry assignments)
   **You are encouraged to work together on the recommended problems from the text.**
2) You may not submit class notes or exams from this course to any online or "pay" resource. Doing so is considered a UNC-CH Honor Code violation.

Important Requests, Requirements, and Penalties:
1) Please be on time for all classes and exams. Additional exam time not be allowed if you're late.
2) Ringing/audible cell phones and texting are not permitted in class. This is both distracting and disrespectful.
   Note: If your cell phone rings/beeps/etc in class, you are required to come down and tell me after class. You'll receive a one point deduction from your next exam. This is not a big deal. Not identifying yourself is an Honor Code Violation. This is a big deal.
3) Laptop computers must be turned off and closed during lecture.
4) Headphones may not be worn in class unless I specifically give you permission. (hearing aid, etc)
5) Please do not leave instructor phone messages and ask him to return them unless it's an extreme emergency. He usually has too many messages to even attempt to reply in a given day.

Study Tips and Guidelines For Organic Chemistry
(This class is different than any you've had before. Treat it differently! Keep up!)
1. You must read all the chapters as we cover the material in class. Reading a chapter more than once will often be necessary. If you cannot answer the questions within the reading as you go, you must reread that section. You’ve missed something.

2. Doing as many problems as humanly possible is essential to you passing this class. You cannot do too many problems for this class. Use your Study Guide & Solutions Manual but do not become overly dependent on it. Work problems first without looking at the answers.
**If you can't get a problem correct without looking at the answer, you have a problem!** Come to mentor or help-session to get answers. Don't rely on the solutions manual. Try to do problems in an "exam-like" scenario without the solutions manual. This is the only way to know you are truly comprehending the material.

3. Keep up with the class schedule. If you let yourself get behind in an organic chemistry class, it is often difficult if not impossible to properly catch up.

4. Attend as many mentor sessions (and my help-sessions) as possible each week to both ask questions and listen to others’ questions. Both will help you learn the material. There will be a lot of them.
5. Get a study partner or form a study group of 3 or 4! This helps immensely in a class like this. You can check each other’s recommended homework, ask each other questions, explain things to one another, and compare class notes. Have your study partner check your problems so you can redo incorrect ones without looking at the solutions manual.

6. Send and exchange questions/answers on the class Discussion Forum and Chat Room at the Sakai site. Do not send course/text material questions to Todd by email.

7. At the first sign of trouble, SEE ME! I CAN HELP!

GENERAL CHEMISTRY REVIEW PRIOR TO COURSE (virtual lectures on the web)
Review the following topics. You must know them well (from gen. chem.) before you start the class: Lewis structures, resonance structures, molecular geometry, polarity, acid-base chemistry, resonance, molecular bonding (sigma and pi), atomic orbitals, orbital hybridization (sp, sp², sp³).

There are tons of good tutorial websites and videos available online. GOOGLE them and find good gen chem reviews BEFORE the class starts. You need to make sure you’re solid on the above bold-faced topics above.

A bunch of additional online resources will be linked from SAKAI once we get going during the first week of classes.

Make sure to download the free JAVA Plugin for your computer ASAP. You’ll need it for this and for many other organic websites which show 3-D structures.
http://www.java.com/en/ Note: There are MANY other resourceful websites on SAKAI. Check them out and use them. Google Jmol 3D Chemistry Structures and other things like that. Cool stuff! Here’s a great one:
http://www.edinformatics.com/interactive_molecules/3D/

-Some other good organic chemistry tutorials around the web…
http://web.chem.ucla.edu/~harding/tutorials/tutorials.html
…contains good pertinent gen. chem. review…

NOTE: Google for organic chemistry tutorials and help sites on your own. There are plenty of them.

A few words so you know a little bit more about your instructor:
Todd L. Austell, Ph.D. (Please call me Todd) Born sometime in the 1960’s in Shelby, NC.

Married to Jenna (on May 5, 2012) who was ironically born in Austell, Ga. She is a physical therapist.
B.S. Chemistry (B.S. Biology), UNC 1987.
First majored in Math and Pre-med. before changing to the above.
Lived in Granville and then R.A’ed in Ehringhaus as an undergrad.
DOE Fellowship in Nuclear Chemistry, San Jose (SJSU), California, Summer 1986.
Entered UNC Graduate School in 1988.
Dissertation Title: Electrospray and Microelectrospray Ionization: Applications with Mass Spectrometry.
Visiting Chemistry Prof. at UNC Fall 1995 - Summer 1997.
General College advisor at UNC Summer 1995 - Summer 1997.
Previous Teaching Experience: Chem. 101,102,241,261,101L,102L, 441L, 481L.
Assistant Professor at United States Air Force Academy in Colorado Springs, Colorado from July 1997 - June 1998.

Distinguished Visiting Professor at United States Air Force Academy, July 2014-June 2015.
Current Positions: Research Assistant Professor in UNC Chemistry Dept. since July 1, 1998.
Director of General Chemistry Laboratory (Chem. 101L/102L) program July 1, 1998 thru 2008
Director of the Chemistry Tutorial Program since August of 1999. Located in Kenan Labs C143.
General College advisor for science majors, for the Johnston Scholars Program, and for the Covenant Scholars program.
Departmental advisor for Chemistry majors.
Personal Ongoing Readings/Research:
-Scientific correlations, cosmology and support of the Bible.
-Human sexuality.
Random Stuff: Volunteer Campus Tour Guide at UNC from 1990-2001. Still occasionally give tours and help out at U’grad. Admissions. I worked extensively with Student Ticket distribution for football and b-ball on campus for 6 years while in graduate school. I can help you understand the distribution process if you’re confused. I go to many UNC sports events.

Hobbies: Racquetball, Disc Golf, Ultimate Frisbee, Four-wheeling, Gardening, Camping, Hiking and Rock Climbing, Exploring the West, Basketball, Physical Fitness…and a true-blue Carolina fan of all sports.
Interests: Time with family, music (listening to), gardening, electronics, computers, Bible study, and science in general.

Other important information: A Christian since 1976 and attendee of the Chapel Hill Bible Church and St. Thomas More Catholic Church.
Faculty sponsor/advisor for the UNC Fellowship of Christian Athletes.
Faculty advisor UNC Student/Faculty Christian Fellowship.