

## ORGANIC CHEMISTRY II – FALL 2010

**CHE 3643, Section 002**  
**Rm. HSS 2.01.10**  
**Office:** BSE 1.104a  
**Phone:** 458-5432, 458-4464  
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**HOURS: TR 2:00-3:15 PM**  
**INSTRUCTOR:** Cong-Gui Zhao, Ph.D.  
**Office hour:** T 3:20 PM-4:20 PM and  
by appointment

**REQUIRED TEXTBOOKS:** Janice Smith, *Organic Chemistry 2nd Ed; Study Guide*

**REQUIRED MATERIALS:** Molecular Model Set, CPS<sup>®</sup> clicker, einstruction<sup>®</sup> online class subscription

**PREREQUISITES:** CHE 2604 (or CHE 2603) and CHE 2612

**COURSE OUTLINE:** This section will follow CLOSELY the progress and material from my Organic Chemistry II. We tentatively plan to cover chapters 15-25 (See the attached schedule on the back of this page). Reading the material ahead of the lecture is **strongly recommended**.

### EXAM SCHEDULE AND GRADING:

I don't plan to grade on a curve. Points will be accumulated as follows:

Thursday	09/23	EXAM 1	100 pts
Thursday	10/21	EXAM 2	100 pts
Tuesday	11/16	EXAM 3	100 pts
<b>Monday</b>	<b>12/09 (10:30 AM-1:00 PM)</b>	FINAL EXAM	150 pts
CPS			50 pts
Total			500 pts

The total points will be used to assign grades based on the following scale:

**A:** 90-100%                      **B:** 75-89%                      **C:** 55-74%                      **D:** 45-54%

### Keep these important dates in mind:

Monday, September 6

Friday, September 10

Thursday-Saturday, November 25-27

**Wednesday, December 1**

Monday-Tuesday, December 6-7

**Thursday, December 9 (10:30 AM-1:00 PM)**

Labor Day (No class)

Census Day

Thanksgiving Holiday (No class)

**Last Day to Drop with "W" via ASAP**

Student Study Days (No class)

**FINAL EXAM (ACS EXAM)!!!**

**Make-up exams:** Except under extraordinary circumstances, I will **NOT** give make-up exams. Generally, if you have a *documented* reason for missing an exam, I will weigh the *final exam* to allow you accumulate the points you missed. There are **NO** make-ups for *unannounced* (e.g. extra credits) *quizzes*. **Final exam:** The final exam will be *comprehensive* and the **ACS standardized exam** will be used, which means a Scantron<sup>®</sup> answer sheet (Form No. 882-E) and a pencil are needed for the final exam **only**.

### MY TEACHING STYLE AND PRIORITIES:

Organic Chemistry II is a more advanced organic chemistry course which is essential for understanding advanced organic chemistry and chemistry-related disciplines, such as biology, biochemistry, and medicinal chemistry, etc. The **objective** of this course is to learn and understand some basic knowledge of organic compounds, reactions, reaction mechanisms, and methods. This is a challenging course that requires your time and efforts (ca. 12-18 hr/week). I expected a high level of competence from the students in my section. Do not assume that you know the material until you can handle **ALL** the questions at the end of each chapter. **ATTEND ALL CLASSES! WORK AS MANY EXERCISES AS POSSIBLE!** Students are responsible for *all course material* previously covered in the chemistry sequence.

I *encourage* your input regarding the progress of this course during the semester. I am interested in meeting with each of the students during my course. Please feel free to show-up at my office hour, or make an appointment via my **UTSA email** if you so desire. If necessary, **office visits may contribute to extra credits!**

I encourage you to utilize the academic support services available to you through the Tomás Rivera Center (TRC) to assist you with building study skills and tutoring in course content. These services are available at no additional cost to you. The TRC has several locations at the Main Campus and the Downtown Campus. For more information, visit the web site at [www.utsa.edu/trcss](http://www.utsa.edu/trcss) or call 210-458-4694.

**I intend for you to do well in organic chemistry. Work Harder, Think Harder and Success!**

**2010 Fall Schedule**  
**Organic Chemistry II - Section 002**

	Date	Topics	Smith Text	
			Chapter	Sections
<b>Week 1</b>	8/26 R	Radical Reactions	15	15.1-15.7
	8/31 T	Radical Reactions	15	15.8-15.14
<b>Week 2</b>	9/02 R	Conjugate, Resonance, Dienes	16	16.1-16.7
	9/07 T	Conjugate, Resonance, Dienes	16	16.8-16.14
<b>Week 3</b>	9/09 R	Benzene and Aromatics	17	16.15-17.6
	9/14 T	Benzene and Aromatics	17	17.7-18.1
<b>Week 4</b>	9/16 R	Electrophilic Aromatic Substitution	18	18.2-18.8
	9/21 T	Electrophilic Aromatic Substitution	18	18.9-18.15
<b>Week 5</b>	<b>9/23 R</b>	<b>EXAM I</b>	<b>15.1-18.15</b>	
	9/28 T	Carboxylic Acids	19	19.1-19.7
<b>Week 6</b>	9/30 R	Carboxylic Acids	19	19.8-19.14
	10/05 T	Carbonyl Chemistry	20	20.1-20.7
<b>Week 7</b>	10/07 R	Carbonyl Chemistry	20	20.8-20.14
	10/12 T	Aldehydes and Ketones	21	20.15-21.4
<b>Week 8</b>	10/14 R	Aldehydes and Ketones	21	21.5-21.11
	10/19 T	Aldehydes and Ketones	21	21.12-21.17
<b>Week 9</b>	<b>10/21 R</b>	<b>EXAM II</b>	<b>19.1-21.17</b>	
	10/26 T	Carboxylic Acid Derivatives	22	22.1-22.7
<b>Week 10</b>	10/28 R	Carboxylic Acid Derivatives	22	22.8-22.14
	11/02 T	Substitution Reaction	23	22.15-23.2
<b>Week 11</b>	11/04 R	Substitution Reaction	23	23.3-23.9
	11/09 T	Condensation Reaction	24	23.10-24.4
<b>Week 12</b>	11/11 R	Condensation Reaction	24	24.5-24.9
	<b>11/16 T</b>	<b>EXAM III</b>	<b>22.1-24.9</b>	
<b>Week 13</b>	11/18 R	Amines	25	25.1-25.6
	11/23 T	Amines	25	25.7-25.14
<b>Week 14</b>	<b>11/25 R</b>	<b>Thanksgiving day (no class)</b>		
	11/30 T	Amines/NAS	25/NAS	25.15-25.17 + NAS
<b>Week 15</b>	12/02 R	Review	15-25	15.1-25.17
	<b>12/06-07 M-T</b>	<b>Student Study Day (no class)</b>		
<b>Week 16</b>	<b>12/9 R</b>	<b>FINAL EXAM (ACS EXAM)</b>	<b>1.1-25.17</b>	

**Disclaimer**

This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes.