



**Course** CHEM 2323 Organic Chemistry I  
**Professor** Nimanka Pathum Panapitiya  
**Term** Fall 2016  
**Meetings** 4.00 PM - 5.15 PM, SLC 2.303  
Office Hrs: Tuesdays and Thursdays 9 - 11 AM

---

### Professor's Contact Information

**Office Phone** 972-883-6271  
**Office Location** BE 3.330  
**Email Address** nimanka.panapitiya@utdallas.edu  
**Other Information** Contact by e-mail to set up an appointment if you cannot make it to office hours

### General Course Information

**Pre-requisites, Co-requisites, & other restrictions** CHEM 1312 General Chemistry II

**Course Description** This course is designed to provide an overview of fundamental organic chemistry for science majors. Students who successfully complete this course will acquire an integrated understanding of molecular architecture, molecular transformations, reaction energetics and mechanisms, synthetic strategy, and structure determination.  
Tests will be given at the date and time listed in the syllabus. No make-up tests will be given. You may drop one test score. Quizzes will be given at end of class time on the Thursdays indicated by the syllabus. One quiz may also be dropped.  
The course notes used during lectures can be downloaded as pdf files from E-Learning. Problems and supplementary material will also be posted on E-Learning.

**Learning Outcomes** Upon completing this class, students will:

- Be able to predict bonding and three-dimensional structure, including chirality, and to analyze properties of this 3-D structure of organic compounds.
- Be able to compare reactivity amongst a series of organic compounds.
- Be able to predict reactivity of specific functional groups and to construct simple and efficient routes for the preparation of desired organic compounds.

**Required Texts & Materials** L.G. Wade, Jr., "Organic Chemistry", eighth edition, 2012

**Suggested Texts, Readings, & Materials** Solution manual to textbook, molecular model kit.

*[Topics, Reading Assignments, Due Dates, Exam Dates]*

<b>Date</b>	<b>Topic</b>	<b>Chapter</b>	<b>Quiz</b>
Aug 23	Introduction/General Chemistry Review	1	N
Aug 25	Introduction/General Chemistry Review	1	N
Aug 30	Structure and Bonding of Organic Molecules	2	N
Sep 1	Structure and Bonding of Organic Molecules	2	N
<b>Sep 6</b>	Alkanes ( <b>Quiz 1</b> )	3	<b>Y</b>
Sep 8	Alkanes	3	N
Sep 13	Stereochemistry	5	N
<b>Sep 15</b>	Stereochemistry ( <b>Quiz 2</b> )	5	<b>Y</b>
Sep 20	Review of Stereochemistry	5	N
<b>Sep 21</b>	<b>TEST 1 (8:30 pm)</b>		<b>Y</b>
Sept 22	Chemical Reactions	4	N
Sep 27	Chemical Reactions	4	N
Sep 29	Chemical Reactions	4	N
Oct 4	Nucleophilic Substitution ( $S_N2$ )	6.1-6.12	N
Oct 6	Nucleophilic Substitution ( $S_N2$ )	6.1-6.12	N
Oct 11	Nucleophilic Substitution ( $S_N1/E1/E2$ )	6.13-6.21	N
<b>Oct 13</b>	$S_N1/E1/E2$ ( <b>Quiz 3</b> )	6.13-6.21	<b>Y</b>
Oct 18	Compare $S_N1$ , $S_N2$ , $E1$ , and $E2$	Notes	N
Oct 20	Alkenes	7	N
Oct 25	Overview Ch. 4, 6, and 7		N
<b>Oct 26</b>	<b>TEST 2 (8:30 pm)</b>		<b>Y</b>
Oct 27	Reactions of Alkenes	8	N
Nov 1	Reactions of Alkenes	8	N
<b>Nov 3</b>	Alkynes ( <b>Quiz 4</b> )	9	<b>Y</b>
Nov 8	Alkynes	9	N
Nov 10	Alkynes	9	N
Nov 15	Alcohols	10	N
<b>Nov 17</b>	Alcohols ( <b>Quiz 5</b> )	10	<b>Y</b>
Nov 29	Alcohols + Review for Test 3	10	N
<b>Nov 30</b>	<b>TEST 3 (8:30 pm)</b>		<b>Y</b>
Dec 1	Review of Stereochemistry		N
Dec 6	Review of Reactions		N
Dec X	<b>Final Exam (TBD)</b>		<b>Y</b>

Days with either a test or quiz are marked in bold

## Course Policies

The University's policies and procedures segment of course syllabi can be found at <http://provost.utdallas.edu/syllabus-policies/>

<b>Grading (credit) Criteria</b>	Grades will be determined from a combination of test, quiz and final grades			
	Tests	2 x 250	500 points (best 2 out of 3)	
	Quizzes	4 x 50	200 points (best 4 out of 5)	
	Final	1 x 300	300 points	
	Total		1000 points	
	900 – 1000 = A+	700 – 769 = B+	550 – 599 = C+	400 – 449 = D+
	800 – 899 = A	650 – 699 = B	500 – 549 = C	350 – 399 = D
	770 – 799 = A-	600 – 649 = B-	450 – 499 = C-	<350 = F
<b>Make-up Exams</b>	<b>There are no make-up exams or quizzes.</b> If a student misses either an exam or quiz then that missed grade will be counted as their dropped exam/quiz.			
<b>Class Attendance</b>	Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. Absences may lower a student's grade where class attendance and class participation are deemed essential by the instructor. <b>Attendance will be taken for this class in the days of quizzes and also in other days as decided by the instructor.</b>			
<b>Class Rules</b>	<p>1) Some handouts given in the class will not be posted on E-learning. The handouts can be additional lecture notes or solutions to problems posted on E-learning.</p> <p>2) The recitation material will not be posted on E-learning.</p> <p>3) Quizzes will be given in class during the regular class time at the end of class. A total time of 30 minutes will be allocated for the quiz.</p> <p>4) Tests will be given outside regular class time. Please see scheduling for details. All students must be present for a quiz or test to receive credit. Students who take tests at StudentAccessAbility must schedule their tests at the times given in the syllabus. This also applies to the final exam. All test and quiz dates and times are clearly marked in the schedule.</p> <p>5) Attendance will be taken for tests and the final and the students will be required show their Comet Card.</p> <p>6) If you wish to submit an exam or quiz for re-grading because you believe you lost points unfairly, you must do so <b>within one week</b> of receiving your quiz or exam. Your entire exam and/or quiz will be re-graded, not just the exact problem you pointed out. No exceptions will be allowed.</p> <p>7) The keys for tests and quizzes will be posted on E-learning.</p> <p>8) If you plan to get a letter of recommendation from me you have to make sure that your attendance for this course is 80% or above and you should come to see me in my office during office hours. A statement about what grade you made for this course does not constitute a strong letter of recommendation.</p> <p>9) Video/audio taping of the lectures is not allowed.</p>			

**Recitations will be conducted on Fridays from 4 pm to 5 pm in SLC 2.303. Any changes regarding the recitations will be announced in the class.**

*These descriptions and timelines are subject to change at the discretion of the Professor.*