



**Course** CHEM 2323.001 Organic Chemistry I  
**Professor** Dr. Nimanka Pathum Panapitiya  
**Term** Fall 2017  
**Meetings** T/R 8:30-9:45, SLC 2.303

### Professor's Contact Information

**Office Phone** 972-883-6271  
**Office Location** BE 3.330  
**Email Address** Nimanka.panapitiya@utdallas.edu  
**Office Hours** Tuesday/Thursday 10:00-11:00

### General Course Information

<b>Pre-requisites, Co-requisites, &amp; other restrictions</b>	CHEM 1312 General Chemistry II
<b>Course Description</b>	<p>This course is designed to provide a unified overview of fundamental organic chemistry for science majors. Students who successfully complete this course acquire an integrated understanding of molecular architecture, molecular transformations, reaction energetics and mechanisms, synthetic strategy, and structure determination.</p> <p>Tests will be given at the date and time given in the syllabus. No make-up tests will be given. You may drop one test score. There will in addition be quizzes at the end of class time on the Thursdays indicated by the syllabus. One quiz may also be dropped.</p> <p>Students often view organic chemistry as a difficult course. I strongly recommend that everyone attempt to keep up with the class as it proceeds. This is not a course where it is easy to 'cram' for a test. Students invariably do better once they learn how to visualize organic molecules, and reactions, in three dimensions. If you know this is hard for you I recommend using molecular models to try and view the molecules. Also try to realize that this is not a memorization course. While some memorization is unavoidable in learning anything new, the purpose of this course is to teach the underlying basic principles that drive an organic reaction. Once these principles are handled a student will be able to understand, and predict, why any reaction occurs.</p> <p>The test and quiz answers will be posted on the bulletin board outside my office.</p>
<b>Learning Outcomes</b>	<p>Upon completing this class, students will:</p> <ul style="list-style-type: none"><li>• Be able to predict bonding and three-dimensional structure, including chirality, and to analyze properties of this 3-D structure of organic compounds.</li><li>• Be able to compare reactivity amongst a series of organic compounds.</li><li>• Be able to predict reactivity of specific functional groups and to construct simple and efficient routes for the preparation of desired organic compounds.</li></ul>
<b>Required Texts &amp; Materials</b>	L.G. Wade, Jr., "Organic Chemistry", eighth edition, 2012
<b>Recommended Materials</b>	Molecular model kit

**Assignments & Academic Calendar***[Topics, Reading Assignments, Due Dates, Exam Dates]*

Date	Topic	Chapter	Quiz	
AUG 22	24	Introduction	1	N
29	31	Structure and Bonding	2	N
SEP 5	<b>7</b>	Alkanes	3	<b>Y</b>
12	<b>14</b>	Stereochemistry	5	<b>Y</b>
19		Stereochemistry	5	
	<b>SEP 20</b>	<b>TEST 1 (8:30-9:45)</b>		
	21	Chemical Reactions	4	
26	28	Chemical Reactions	4	N
OCT 3	5	Nucleophilic Substitutions ( $S_N2$ )	6.1-6.12	N
10	<b>12</b>	Nucleophilic Substitutions ( $S_N1/E1/E2$ )	6.13-6.21	<b>Y</b>
17	<b>19</b>	Alkenes	7	<b>Y</b>
24		Representing Chemical Reactions		
	<b>OCT 25</b>	<b>TEST 2 (8:30 PM-9:45)</b>		N
	26	Reactions of Alkenes	8	
31	NOV 2	Reactions of Alkenes/Alkynes	8/9	N
7	9	Reactions of Alkynes	9	N
14	<b>16</b>	Alcohols	10	<b>Y</b>
28		Alcohols	10	N
	<b>29</b>	<b>TEST 3 (8:30-9:45 PM)</b>		
	30	Review		
DEC 6		Review		
		<b>FINAL December 9<sup>th</sup> 8:00am</b>		

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Days with either a test or quiz are marked in **bold**

## Course 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>	There are no make-up exams or quizzes. If a student misses either an exam or quiz then that missed grade will be counted as their dropped exam/quiz.			
<b>Class Information</b>	<p>Quizzes are given in the first 30 minutes of class.</p> <p>Tests are given outside class time on the days listed in the syllabus.</p> <p>Attendance will be taken at all tests, be sure to bring your Comet Card.</p> <p>All re-grades for tests and quizzes must be turned in within one week of taking the quiz or test.</p> <p>Keys for tests will be posted outside Dr. Pathum's office, BE 3.330, and in e-learning</p> <p>Practice quizzes and tests will be placed in e-learning approximately one week before the actual quiz or test.</p> <p>Video or audio recording of the lectures is not allowed.</p>			
<b>Peer Led Team Learning (PLTL)</b>	<p>Peer Led Team Learning (PLTL) is a program designed to provide an active learning experience in which students can gain the skills and confidence to be successful learners in Organic Chemistry and, potentially, future courses. In weekly ninety-minute PLTL sessions, small groups of students will work together to solve problems written by UT-Dallas' chemistry faculty. An undergraduate PLTL leader who has training in group dynamics and mastery of course content will lead them. This is an optional component to the course. However, if you choose to participate, you are required to stay in the program throughout the semester—the integrity of the group depends on it. PLTL groups will meet on a Friday-Wednesday weekly schedule. To participate in a PLTL group, you will need to complete the PLTL application. More details of this program will be announced in class.</p>			
<b>Supplemental Instruction (SI)</b>	<p>Supplemental Instruction (SI) is offered for this course. SI sessions are free group study opportunities, scheduled three times per week. Attendance is voluntary. For information about the days, times and locations for SI sessions, refer to <a href="http://www.utdallas.edu/studentssuccess/leaders/si.html">www.utdallas.edu/studentssuccess/leaders/si.html</a>.</p>			
<b>Tutoring</b>	<p>Tutoring is available for organic chemistry through the Student Success Center. The center has drop in times during the week for one-on-one tutoring. See the schedule for organic chemistry at <a href="http://www.utdallas.edu/studentssuccess/leaders/tutoring.html">www.utdallas.edu/studentssuccess/leaders/tutoring.html</a>.</p>			
<b>University Policies</b>	<p>For more University policies please see: <a href="#">UT Dallas Syllabus Policies and Procedures webpage</a></p>			

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