

**Texas State Technical College Waco
Course Syllabus**

Course Rubric & Number: CHEM 2123

Lecture/Lab Hours: 0- 3

CIP Code: 4005040002

Course Title: **Organic Chemistry Laboratory 1**

Course Description: The laboratory portion of CHEM 2323. Organic laboratory techniques will be emphasized.

Corequisites: CHEM-2323

Instructor:

Office Phone Number: 254-867-4859

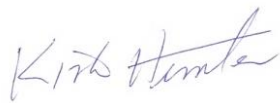
Email Address: richard.wheet@tstc.edu

Office Fax Number: 254-867-2973

Building & Office Room Number: TSC - Office

Department Chair:

Kirk Hunter



Date: 29 June 2010

Approved by CIP Committee:

Date:

End-of-Course Learning Outcomes:

CO1: Demonstrate standard organic chemistry laboratory techniques.

Resources:

Tools & Materials Students Purchase

Quantity	Item Description
1	Organic Chemistry Laboratory – Richard Wheet – LaLab edition

TSTC Grading Policy:

(Grades for all Major courses must be C or better)

Grade	Percent	Description	Grade Points
A	90-100	Excellent/Superior Performance Level	4
B	80-89	Above Required Performance Level	3
C	70-79	Minimum Required Performance Level	2
D	60-69	Below Required Performance Level	1
F	Below 60	Failure to meet Performance Requirements	0
IP	--	In Progress	
W	--	Withdrawal	0
CR	--	Credit	0
AUD	--	Audit of Course	0
See College Catalog for complete descriptions.			

Instructor's Participation Policy:

The student must be present for all laboratory assignments. Failure to attend will result in a grade of zero for that particular laboratory assignment.

Students with Disabilities:

If you have a documented disability that will impact your work in this class, please contact the Office of Deaf and Disabled Student Services (D/DSS) so that appropriate arrangements for your accommodations can be made. In accordance with the federal law, a student requesting accommodations must provide documentation of his/her disability to D/DSS. For information, visit D/DSS in the Fentress Center or call (254) 867-3600.

Once you and a D/DSS representative have signed a Letter of Special Accommodations, take the accommodations letter to each class for which an accommodation has been determined. Meet individually with each class instructor to discuss accommodations letter. Have the instructor sign and keep a copy of the letter. Take the original letter, signed by the instructor, back to D/DSS so they are aware that the instructor has been officially informed of the need for accommodations.

Course Assessments & Grading Scheme:

<i>Assessments</i>		<i>% of Final Grade</i>
Lab 1: Laboratory Safety	100 points	12.5%
Lab 2: Simple Distillation of a single Solution	100 points	12.5%
Lab 3: Distillation of a mixture of Two Liquids	100 points	12.5%
Lab 4: Fractional Distillation	100 points	12.5%
Lab 5: Melting Points	100 points	12.5%
Lab 6: Preparation of Aspirin	100 points	12.5%
Lab 7: Extraction of a Known Mixture	100 points	12.5%
Lab 8: Extraction of a Unknown Mixture	100 points	12.5%
Final Course Grade		100%

A = 90-100%

B=80-89%

C=70-79%

D=60-69%

Description of Graded Elements of the Course:

<i>End-of-Course Learning Outcomes</i>	<i>Assessment Measure(s)</i>	<i>Submittal of Assessment</i>	<i>Grading Criteria</i>	<i>% of Final Grade</i>
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 1	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 2	Written using a writing instrument	Correct answers based on scientific fact	12.5%

<i>End-of-Course Learning Outcomes</i>	<i>Assessment Measure(s)</i>	<i>Submittal of Assessment</i>	<i>Grading Criteria</i>	<i>% of Final Grade</i>
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 3	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 4	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 5	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 6	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 7	Written using a writing instrument	Correct answers based on scientific fact	12.5%
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 8	Written using a writing instrument	Correct answers based on scientific fact	12.5%

Course Policies:

Electronic Communication Devices:

All cell phones, pagers, computers and other electrical communication devices will be turned off completely during class (this includes no vibrate mode). Failure to comply with this requirement will result in the student being required to leave the class for the rest of the class period during which the violation occurs. Any work missed may not be made up.

Late Work:

Late work receives a zero.

Make-up work:

Make-up work receives a zero

Course Schedule:

Week # 1: Review course syllabus and Laboratory Safety		
CO1: Demonstrate standard organic chemistry laboratory techniques.		
Week # 2: Laboratory Safety		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 1:	Laboratory Safety
Week # 3: Simple Distillation of a single Solution.		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 2:	Simple Distillation of a single Solution
Week # 4 Simple Distillation of a single Solution (continuation).		
CO1: Demonstrate standard organic chemistry laboratory techniques.		
Week # 5: Distillation of a mixture of Two Liquids		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 3:	Distillation of a mixture of Two Liquids
Week # 6: Distillation of a mixture of Two Liquids (continuation)		
CO1: Demonstrate standard organic chemistry laboratory techniques.		

Week # 7: Fractional Distillation		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 4:	Fractional Distillation
Week # 8: Fractional Distillation (continuation)		
CO1: Demonstrate standard organic chemistry laboratory techniques.		
Week # 9: Mass Relationships.		
Week # 10: Mass Relationships		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 7:	Mass Relationships
Week # 11: Stoichiometry		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 8:	Stoichiometry
Week # 12: Gas Laws		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 9:	Gas Laws
Week # 13: Solutions		
CO1: Demonstrate standard organic chemistry laboratory techniques.		

Week # 14: Solutions.		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab 10:	Solutions
Week # 15: Retake week.		
CO1: Demonstrate standard organic chemistry laboratory techniques.	Lab Retake:	Any single previous Lab

Modification of the syllabus:

This syllabus is intended as a tentative set of guidelines for this course and is not a contract. At any time during the semester, the instructor reserves the right to make modifications in content, schedules and requirements as deemed necessary to promote the best education possible within the prevailing conditions and circumstances affecting this course.