

CHEM F321

Organic Chemistry I

Fall 2018

CRN(s): 73258; 73259; 73260; 73261; 73262; 73263

Credits: 4 credits

Lecture: REIC 201, MWF 8:00 - 9:00 am

Lab: REIC 241, Various Times

Prerequisite: Chem F106X

Required Course Materials:

! **Textbook package sold via UAF Bookstore, includes:**

Joel Karty, Organic Chemistry, 6th ed., Norton, 2018

Print versions come with solutions manual study guide – and it's helpful

Online Homework: Subscription to Smartwork5 (FREE!!)

! **Laboratory textbook:**

Anne Padias,

Lab book for recording observations (GIVEN TO YOU FOR FREE!!)

NON-programmable, NON-graphing scientific calculator

Turning Technologies license AND clicker or Responseware on mobile device

HIGHLY Recommended Materials:

! **Workbook:** Klein, D.

Organic Chemistry, 4th ed. Wiley, 2016

Eubanks, I. Dwaine.

! Molecular model kit – my favorite is in the UAF bookstore

Important Dates:

Aug. 27th: First day of class

Sept. 7th: Deadline for adding classes, late registration, drops

Student Learning Outcomes: At the end of this course, students should be to

1. Identify and draw common organic functional groups.
2. Name hydrocarbons, including alkanes, alkenes, alkynes, dienes and alcohols.
3. Apply conformational analysis of cyclohexane and associated derivatives.
4. Predict the reactivity of alkanes, alkenes, alkynes, dienes, and alcohols.
5. Know common reagents used for hydrocarbon transformation into other functional groups.
6. Interpret IR, NMR spectra of simple organic compounds to arrive at a structure.
7. Draw and interpret 3D structures of simple organic compounds.

CHEM F321 Fall 2018 Tentative Schedule

	Date	Assigned Readings	Klein	Assignments
Week 1	M 8/27	Ch 1: Lewis structures, Resonance	Ch 1-2	
	W 8/29	Ch 1: Functional Groups		
	F 8/31	Ch 2: Intermolecular Interactions		Quiz 1