



**UNIVERSITY OF CRETE
FACULTY OF CHEMISTRY**

Courses offered: Organic Chemistry I, Organic Chemistry II
 Textbook: Organic Chemistry I & II, John McMurry, 4th ed. Brooks/Cole, New York, 1996.

Syllabus

Course	Hours	Course	Hours
Organic Chemistry I	45	Organic Chemistry II	45

Chapter	Hours	Chapter	Hours
1: Structure and Bonding	3	17: Alcohols and Thiols	3
2: Bonding and Molecular Properties	3	18: Ethers, Epoxides, Sulfides	3
3: Alkanes and Cycloalkanes	3	19: Aldehydes and Ketones	3
4: Stereochemistry of Alkanes and Cycloalkanes	3	20: Carboxylic Acids	3
5: Organic Reactions	3	21: Derivatives of Carboxylic Acids	3
6: Alkenes: Properties	3	22: Carbonyl Alpha-Substitution Reactions	3
7: Alkenes: Reactions	3	23: Carbonyl Condensation Reactions	3
8: Alkynes	3	24: Aliphatic amines	3
9: Stereochemistry		25: Arylamines and Phenols	
10: Alkyl Halides		MID TERM EXAM	
MID TERM EXAM	3		3
11: Nucleophilic Substitution and Elimination	2	26: Hydrocarbons	3
12: Mass Spectrometry and I.R.	2	27: Amino Acids, Peptides and Proteins	3
13: NMR Spectroscopy	2	28: Lipids	3
14: Conjugated Dienes and U.V.	3	29: Heterocyclic Compounds and Nucleic Acids	3
15: Benzene and Aromaticity	3	30: Organic Chemistry of Metabolism	
16: Electrophilic Aromatic Substitution		31: Molecular Orbitals in Organic Chemistry: Pericyclic Reactions	
FINAL EXAM		FINAL EXAM	