

George Mason University
Department of Chemistry and Biochemistry
Synthetic and Mechanistic Organic Chemistry, (Chemistry 413-001)
Spring 2013
Instructor: Dr. Ramesh R. Pant
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Meeting Time:
Meeting Place:
Office Hrs: By appointment

Required Text: **Organic Chemistry: An Intermediate Text, 2nd Edition** by Robert V. Hoffman
(ISBN: 978-0-471-45024-5)

<u>Date</u>	<u>Chapter in text</u>	<u>Subjects</u>
Week 1	1	Introduction, Functional groups and chemical bonding.
Week 2	2, 3	Oxidation States of Organic Compounds Acidity and Basicity
Week 3	4, Handout	Curved arrow notation and reaction mechanism
Week 4	7	Functional group synthesis
Week 5	Handout	Aromatic compounds and their reactivity
Week 6	1st Midterm	
Week 7	6	Stereochemistry of organic compounds
Week 8	No classes (Spring Break)	
Week 9	8, Handout	Synthetic strategy involving carbon nucleophile and carbon electrophiles
Week 10	9	Free radical reactions
Week 11	2nd Midterm	
Week 12	10	Planning Organic synthesis