

# Tentative Schedule For CHEM 3750

Organic Chemistry, Fall 2009, WMU

Lecture keywords are posted and updated at <http://homepages.wmich.edu/~schoffer/>  
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Date	Chapter	Homework Assignments*
9/9, W		Introduction
9/11	1	Molecular Bonding and Geometry, HW # 1-21, 24, 25, 26, 28, 36, 38, 48, 52, 55, 56
9/14, M	1	
9/16	1	
9/18	2	Alkanes and Cycloalkanes HW # 1-17, 20, 22, 26, 27, 34, 39, 44, 48, 49, 51
9/21, M	2	
9/23	2	
9/25	2	
9/28, M	2	
9/30		<b>Exam 1 (Ch 1, 2)</b>
10/2	3	Stereochemistry, HW # 1-10, 14-18, 20, 26, 27, 30, 31
10/5, M	3	
10/7	3	
10/9	4	Acids and Bases, HW # 1-10, 14-17, 26, 32, 33, 36, 37
10/12, M	4	
10/14	5	Alkenes, HW # 1-10, 13, 14-16, 20, 31, 32, 35
10/16	5	
10/19, M		<b>Exam 2 (Ch 3, 4, 5)</b>
10/21	6	Reactions of Alkenes, HW # 1-10, 13-17, 20-22, 25-28, 34-39, 41, 44, 47
10/23	6	
10/26, M	6	
10/28	6	
10/30	7	Alkynes, HW # 1-12, 17, 20, 23, 27
11/2, M	7	
11/4	8	Halides, HW # 1-10, 13, 18, 22-24, 28
11/6	8	
11/9, M		<b>Exam 3 (Ch 6, 7, 8); (Last Day To Withdraw From Course)</b>
11/11	9	Substitution and Elimination Reactions, HW # 1-13, 17-20, 22, 25-28, 34, 37-40, 43, 46-47
11/13	9	
11/16, M	9	
11/18	9	
11/20	10	Alcohols, HW # 1-16, 19-21, 25-28, 29, 31, 35, 37
11/23, M		
11/25	10	No lecture, Thanksgiving Recess begins at noon
11/30, M	15	Organometallic Compounds, HW # 1-7, 10-13, 17
12/2	15	
12/4		<b>Exam 4 (Ch 9, 10, 15)</b>
12/7, M	11	Ethers, Epoxides, Sulfides, HW # 1-12, 15-17, 20, 21, 24, 27, 32, 33, 40
12/9	11	
12/11	11	
12/17		<b>Cumulative Final Exam, 2:45-4:45 PM</b>

## Noteworthy Seminars

WMU Chemistry Seminars usually take place on Mondays at 4 PM in 1220 Chem. Bldg. Note exceptions for October 26 and November 3. Times and locations may be subject to change. *Chemistry majors, assistants and researchers are invited to also attend luncheons with speakers, 1-2 PM on Mondays.*

Date	Speaker Name	Speaker Affiliation
<a href="#">9/21/2009</a>	<a href="#">Peter G.M. Wuts</a>	Kalexsyn
<a href="#">9/28/2009</a>	<a href="#">Haobin Wang</a>	New Mexico State University
<a href="#">10/8/2009</a>	<a href="#">James Dabrowiak</a>	Syracuse University
<a href="#">10/9/2009</a>	<a href="#">James Dabrowiak</a>	Syracuse University
<a href="#">10/19/2009</a>	<a href="#">Regan Thomson</a>	Northwestern University
<a href="#">10/26/2009</a>	<a href="#">Rongchao Jin</a>	Carnegie Mellon University
<a href="#">11/3/2009</a>	<a href="#">Roald Hoffmann</a>	Cornell University
<a href="#">11/16/2009</a>	<a href="#">Sarah Trimpin</a>	Wayne State University
<a href="#">11/23/2009</a>	<a href="#">James McCusker</a>	Michigan State University

### Additional Details:

Sept 21, Dr. Peter Wuts, “Synthesis of Nitric Oxide Synthase Inhibitors”

Sept 28, Prof. Haobin Wang, “Quantum Simulation of Electron Injection Processes at Dye-Semiconductor Interfaces”

Oct. 8, *Harmon Lecture* by Prof. James Dabrowiak, “Role of Carbonate in the Mechanism of Action of Cisplatin” (sponsored by the Department of Chemistry and the Visiting Scholar and Artist Program)

James Dabrowiak received his Ph.D. at Western Michigan University in 1970 working with Dr. Dean Cooke on the synthesis and characterization of cobalt-amino acid complexes. Following post-doctoral research at Ohio State University he joined the faculty at Syracuse University where he is currently Professor of Chemistry. His main research interests have focused on the interactions of metals with biologically important molecules. Most notable is his research on the action of platinum-based anticancer drugs. His laboratory also pioneered the development of quantitative footprinting analysis for studying the sequence specificity of drugs interacting with DNA and RNA. He has served as a consultant for Bristol Myers Squibb during the development of the platinum drugs and in 1985 was a recipient of an American Cancer Society Scholar Award.

Oct. 19, Prof. Regan Thomson, “New Reactions from Under-explored Compounds: The Chemistry of Allylhydrazones and Silyl Bis-enol Ethers”

### Bonus Points (5 pts each, sign in at lecture):

Attend one or both lectures and receive bonus points.

- 1) **Thomas Glick**, Professor of History and Geography, Boston University, “The Early Reception of the ‘Origin of Specie’ in England and the United States”, Tuesday, October 6, 2009, 5 PM Putney Lecture Hall, WMU Fetzer Center
- 2) **Roald Hoffmann**, *Nobel Prize Laureate in Chemistry*, Frank H. T. Rhodes Professor of Humane Letters, Emeritus, Cornell University (<http://www.roaldhoffmann.com/pn/>), “The Many Ways of Diversity in Science”, Tuesday, November 3, 2009, 5 PM, 1720 Chemistry Building