

**Tentative: ACADEMIC SCHEDULE**  
**CHE 210 INTRODUCTION TO ORGANIC CHEMISTRY**

**Lecture: 5:00pm – 6:25pm / Monday (M) and Wednesday (W) Room D122**

**Lab: 5:00pm – 8:00 pm Tuesday (T) Room B222**

Spring 2009

Ram P. Neupane, Instructor

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WEEK – DATE	***** LESSON(S) *****
1      01/19	MARTIN LUTHER KING DAY - NO CLASS
1      01/21	Orientation(Review syllabus), <b>Diagnostic test</b>
2      01/26	REVIEW – Topics from Concepts of Chemistry Electronic Structure and Covalent Bonding – Chapter 1
2      01/28	REVIEW – Topics from Concepts of Chemistry Electronic Structure and Covalent Bonding – Chapter 1
3      02/02	Organic Acids and Bases (pH, pKa, etc.) – Chapter 2
3      02/04	Nomenclature, structure and properties of organic compounds Chapter 3 <span style="float: right;"><b>(QUIZ 1)</b></span>
4      02/09	Nomenclature, structure and properties of organic compounds Chapter 3 Alkenes: Structure, Nomenclature, Stability – Chapter 4
4      02/11	Alkenes: Structure, Nomenclature, Stability, and Reactions Alkynes: Introduction, Reactions – Chapters 4 and 5
5      02/16	HOLIDAY – WASHINGTON’S BIRTHDAY
5      02/18	Delocalization of electrons: effects on stability, reactivity, and pKa Chapter 6 <span style="float: right;"><b>(QUIZ 2)</b></span>
6      02/23	REVIEW for EXAM 1
6      02/25	***** <b>EXAM 1</b> *****

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WEEK – DATE      \*\*\*\*\* LESSON(S) \*\*\*\*\*

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7	03/02	Isomers and Stereochemistry – Chapter 8
7	03/04	Substitution and Elimination Reactions – Chapter 10

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8	03/09	Substitution and Elimination Reactions – Chapter 10
8	03/11	Radical reactions – halogenation of alkanes – Chapter 9 (QUIZ 3)

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9	03/16	<b>SPRING BREAK</b>
9	03/18	<b>SPRING BREAK</b>

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10	03/23	Spectroscopy – Chapter 15
10	03/25	Spectroscopy – Chapter 15

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11	03/30	Aromaticity, Reactions of Benzene and Substituted Benzenes Chapter 7
11	04/01	Aromaticity, Reactions of Benzene and Substituted Benzenes Chapter 7 (QUIZ 4)

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12	04/06	Reactions of Alcohols, Amines, Ethers, and Epoxides Chapter 11
12	04/08	REVIEW for EXAM 2

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13	04/13	***** <u>EXAM 2</u> *****
13	04/15	Carbonyl Compounds – Nomenclature, Properties and Reactions Chapter 12

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**WEEK – DATE                   \*\*\*\*\*LESSON(S)\*\*\*\*\***

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14        04/20            Reactions of Carbonyl Compounds – Chapters 12, 13 & 14

14        04/22            Reactions of Carbonyl Compounds – Chapters 12, 13 & 14

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15        04/27            Carbohydrates – Chapter 16  
**(QUIZ 5)**

15        04/29            Amino Acids, Peptides, and Proteins – Chapter 17

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16        05/04            Amino Acids, Peptides, and Proteins – Chapter 17

16        05/06            Enzymes, Coenzymes, and Vitamins – Chapter 18  
**(QUIZ 6)**

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17        05/11            Lipids – Chapter 20

17        05/13            Nucleosides, Nucleotides, and Nucleic Acids – Chapter 21

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18        05/18            REVIEW for FINAL EXAM

18        05/20            **FINAL EXAM - 2:30pm – 4:30pm**

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**CHEMISTRY K210: INTRODUCTION TO ORGANIC CHEMISTRY  
SPRING 2009**

Laboratory: B222 (Tuesdays 5:00 – 8:00 pm)

PROPOSED LABORATORY EXPERIMENTS/ACTIVITIES

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Week 1:	01/27	SAFETY/LAB ORIENTATION
Week 2:	02/03	Purification Techniques: EXTRACTION
Week 3:	02/10	Purification Techniques: RECRYSTALLIZATION
Week 4:	02/17	Purification Techniques: DISTILLATION
Week 5:	02/24	Analytical Technique: THIN LAYER CHROMATOGRAPHY
Week 6:	03/03	<b>LABORATORY PRACTICAL EXAM I</b>
Week 7:	03/10	Organic Reactions: NUCLEOPHILIC SUBSTITUTION
Week 8:	03/17	<b>SPRING BREAK</b>
Week 9:	03/24	Data Interpretation: $^1\text{H}$ NMR SPECTROSCOPY/IR SPECTROSCOPY
Week 10:	03/31	Data Interpretation: $^1\text{H}$ NMR SPECTROSCOPY/IR
Week 11:	04/07	Organic Reactions: ELIMINATION
Week 12:	04/14	Organic Reactions: REDUCTION
Week 13:	04/21	Organic Reactions: ESTERIFICATION
Week 14:	04/28	Organic Reactions: ALDOL CONDENSATION
Week 15:	05/05	<b>LABORATORY PRACTICAL EXAM II</b>
Week 16:	05/12	Applications of Organic Reactions: MAKING SOAP AND BIODIESEL (SAPONIFICATION AND TRANSESTERIFICATION)

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