

## Tentative: ACADEMIC SCHEDULE CHE 111 CONCEPTS OF CHEMISTRY

**Lecture: 9:00am – 9:55am MWF**

**LAB #1: 1:00pm – 4:00pm M**

**LAB #2: 1:00pm – 4:00pm W**

Spring 2012

Dr. Donald David Pascal, Instructor

WEEK – DATE	***** LESSON(S) *****
1      1/23	Orientation (Review syllabus) / Scientific Method
1      1/25	Scientific Method cont'd / Chemistry – Required reading – Ch 1, 2
1      1/27	Chemistry, Matter & Energy – Required reading – Chapter 2
2      1/30	Matter & Energy – Required reading – Chapter 2 Measurements in Chemistry – Required reading – Chapter 3
2      2/01	<u>Quiz 1</u> / Measurements in Chemistry – Required reading – Chapter 3
2      2/03	Measurements in Chemistry – Required reading – Chapter 3
3      2/06	Measurements cont'd / Atoms, Elements, Molecules & Compounds Required reading Chapters 4 & 18
3      2/08	Atoms, Elements, Molecules & Compounds – Required reading – Chapters 4 & 18
3      2/10	<u>Quiz 2</u> Atoms, Elements, Molecules & Compound cont'd / Energy levels – Required reading – Chapter 5
4      2/13	Electrons and Principle Energy Levels - Required reading – Chapter 5
4      2/15	Electron Arrangement – Required reading – Chapter 5
4      2/17	<u>Quiz 3</u> / Chemical Bonding – Required reading – Chapter 8 / Rules for writing the chemical formulas for ion and covalent inorganic compounds
5      2/20	Writing Chemical Formulas – Required reading – Chapter 8
5      2/22	***** UNIT TEST 1 *****
5      2/24	The Periodic Table of Elements – Required reading – Chapter 7

WEEK	DATE	***** LESSON(S)*****
6	2/27	The Period Table – Required reading- Chapter
6	2/29	<u>Quiz 4</u> The Periodic Table – Required reading – Chapter 7
6	3/02	Naming inorganic compounds – Required reading – Chapter 6
7	3/05	Naming inorganic compounds – Required reading – Chapter 6
7	3/07	Naming inorganic compounds cont'd / Calculating Formula Weights (Molar Mass & Molecular Mass) Required reading – Chapter 9 & 4.12 of Chapter 4
7	3/09	<u>Quiz 5</u> / Calculations: Formulas Weight, Moles Required reading Chapters 4 & 9
8	3/12	Calculations: Percent Composition – Empirical Formulas
8	3/14	Chemical Equations – Required reading – Chapter 10
8	3/16	Chemical Equations and Stoichiometry – Ch 10,11
<b>9</b>	<b>3/19</b>	<b><i>Spring Break</i></b>
<b>9</b>	<b>3/21</b>	<b><i>Spring Break</i></b>
<b>9</b>	<b>3/23</b>	<b><i>Spring Break</i></b>
10	3/25	<u>Quiz 6</u> / Stoichiometry cont'd / Gases -Required reading – Chapter 12
10	3/28	Gases and the Gas laws – Chapter 12
10	3/30	Liquids & Solids - Required reading – Chapter 13
11	4/02	Liquids & Solids cont'd
<b>11</b>	<b>4/04</b>	<b>***** UNIT TEST 2 *****</b>
11	4/06	College Closed – Good Friday
12	4/09	Solutions – Required reading – Chapter 14
12	4/11	Solutions – Required reading – Chapter 14
12	4/13	Solutions – Required reading – Chapter 14
13	4/16	<u>Quiz 7</u> / Acids and Bases – Required reading – Chapters 16, 17
13	4/18	Electrolytes, Ionization and Ionic Equations – Required reading – Chapters 15, 16, 17
13	4/20	Oxidation – Reduction reactions / Redox equations – Required Reading – Chapters 15, 16, 17

WEEK – DATE		*****LESSON(S) *****
14	4/23	Factors that effect the rate of chemical reactions / Chemical Equilibrium – Required reading Chapters 15, 16, 17
14	4/25	<u>Quiz 8</u> / Organic Chemistry / Carbohydrates and Lipids – Required Reading – Chapter 20
14	4/27	Organic Chemistry / Proteins and Nucleic Acids – Required reading – Chapter 20 & Handout
15	4/30	Biochemical processes – Required reading – Chapter 20 & Handout
15	5/02	Biochemical processes cont'd - Required reading – Chapter 19 and Handout
15	5/04	<u>Quiz 9</u> /Hydrocarbons - Required reading – Chapter 19
16	5/07	Hydrocarbons – Required reading – Chapter 19 & Handout
16	5/09	Hydrocarbons – Required reading – Chapter 19 & Handout
<b>16</b>	<b>5/11</b>	*****UNIT TEST 3 *****
17	5/14	Review Unit Test 3 and Explain the Final exam Process
17	5/16	<b><u>FINAL EXAM</u> - 09:00am – 11:30pm – Room TBA</b>

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# **CHE 111 LABORATORY SCHEDULE – ROOM - B216 Spring 2011**

Lab#1: 1:00pm – 4:00pm - Monday's

Lab#2: 1:00pm – 4:00pm – Wednesday's

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

1	1/23-25	Lab Procedures, Safety & Equipment
2	1/30-2/01	Measurements in Chemistry
3	2/06-08	Percent of Water in a Hydrate
4	2/13-15	Properties of Chemical Substances/Physical or Chemical Changes
5	2/20-22	Atoms, Molecular Bonds, & Writing Chemical Formulas
6	2/27-29	***** <b>LABPRACTICAL 1</b> *****
7	3/05-07	Qualitative Analysis & Quantitative Analysis (Chemical Formulas)
8	3/12-14	<i>PROBLEM SOLVING SESSION I</i>
<b>9</b>	<b>3/19-21</b>	<b><i>Spring Break</i></b>
10	3/26-28	Problem Solving Session II
11	4/02-04	Stoichiometry (mass-mass) in an Acid/Base Reaction
12	4/09-11	Solutions
13	4/16-18	Acids / Bases – Titration - Electrolytes
14	4/23-25	Organic / Bio - Chemistry
<b>15</b>	<b>4/30 –5/ 02</b>	***** <b>LAB PRACTICAL 2</b> *****