

**Sussex County Community College**  
**Newton, NJ 07860**  
**CHEM 110**

**Textbook:** Chemistry, 5<sup>th</sup> Edition; Gilbert; ISBN 9780393628166.

Lecture	Topics	Chapter	Assigned Homework**
1	<a href="#">Matter, Measurement, Mathematics</a>	1	21, 43, 57, 63, 65, 90, <a href="#">SmartWork</a>
2	<a href="#">Periodic Table, Atoms, Elements, Isotopes,</a> <a href="#">Chemical/Physical Properties. Quiz 1</a> due	2.1-2.5	19, 31, 45, <a href="#">SmartWork</a>
3	<a href="#">Molecules, Ions and Compounds,</a> Atomic <a href="#">Mass, Mole, Molar Mass. Quiz 2</a> due	2.5-2.6, 3.1-3.2	2(35,39,63, 67,75,81,83,87) 3(17,19,23,31,39) <a href="#">SmartWork</a>
4	<a href="#">Quiz 3</a> due. <a href="#">Exam I</a> (Lectures 1-3) <a href="#">Chemical Formulas: Mass/Mole Relationships</a>	3.6-3.8	75, 77, 85a, 97, <a href="#">SmartWork</a>
5	<a href="#">Chemical Reactions: Mass/Mole Relationships</a> <a href="#">Quiz 4</a> due.	3	51, 53, 59, 109, 115, <a href="#">SmartWork</a>
6	<a href="#">Aqueous Solutions:</a> Concentration, Molarity, Dilution, Reaction Types, Net Ionic. <a href="#">Quiz 5</a> due	4.1-4.5, 4.7	13a,17a,29a,43,45,47,57a,59a 75,77,79,85,129a, <a href="#">SmartWork</a>
7	<a href="#">Reactions in Solution:</a> Titration, Activity Series, Oxidation-Reduction Reactions, <a href="#">Quiz 6</a> due	4.6, 4.9	63, 67, 68, 101a, 103a, 115, <a href="#">SmartWork</a>
8	<a href="#">Quiz 7</a> due. <a href="#">Exam II</a> (Lectures 4-7) <a href="#">Nuclear Reactions</a>	19	21, 22, 26, 37, <a href="#">SmartWork</a>
9	<a href="#">Gas Laws, Kinetic Molecular Theory</a>	6	37, 47, 55, 57, 69, 73, 79, 85, 105a, 137, <a href="#">SmartWork</a>
10	<a href="#">Atomic Structure, Quantum Theory. Quiz 8</a> due	7.1-7.7	27, 29, 55, 80, 85, 87, <a href="#">SmartWork</a>
11	<a href="#">Quantum Theory, Electron Configuration,</a> Trends in Atomic Properties. <a href="#">Quiz 9</a> due	7.8-7.12	89, 97, 99, 101, 103, 105, 107,119,121,123, <a href="#">SmartWork</a>
12	<a href="#">Chemical Bonding, Lewis Structures,</a> Molecular Shape. <a href="#">Quiz 10</a> due	8.1-8.3, 8.5-8.7 9.1-9.2	8(22, 37, 44, 47, 53, 55) 9(11, 25, 29), <a href="#">SmartWork</a>
13	<a href="#">Molecular Structure: Bond and Molecular</a> Polarity. <a href="#">Quiz 11</a> due	8.8, 9.3-9.4, 9.7	8(115, 119) 9(41, 45), <a href="#">SmartWork</a>
14	Molecular Structure <a href="#">Exam III</a> (Lectures 8-14)		
15	Final Exam (comprehensive)		

\*\* Checked the following week.

## Previous Edition Support

**Textbook:** Chemistry, 4<sup>th</sup> Edition; Gilbert, Kirss, Foster, Davies; Norton; ISBN 9780393919370.

Lecture	Topics	Chapter	Assigned Homework**
1	<a href="#">Matter, Measurement, Mathematics</a>	1	21, 43, 57, 63, 65, 90, SmartWork
2	<a href="#">Periodic Table, Atoms, Elements, Isotopes,</a> <a href="#">Chemical/Physical Properties. Quiz 1 due</a>	2.1-2.5	19, 31, 45, SmartWork
3	<a href="#">Molecules, Ions and Compounds,</a> Atomic <a href="#">Mass, Mole, Molar Mass. Quiz 2 due</a>	2.5-2.6, 3.1-3.2	2(35,39,63, 67,75,81,83,87) 3(17,19,23,31,39) SmartWork
4	<a href="#">Quiz 3 due. Exam I (Lectures 1-3)</a> <a href="#">Chemical Formulas: Mass/Mole Relationships</a>	3.6-3.8	75, 77, 85a, 97, SmartWork
5	<a href="#">Chemical Reactions: Mass/Mole Relationships</a> <a href="#">Quiz 4 due.</a>	3	51, 53, 59, 109, 115, SmartWork
6	<a href="#">Aqueous Solutions:</a> Concentration, Molarity, Dilution, Reaction Types, Net Ionic. <a href="#">Quiz 5 due</a>	4.1-4.5, 4.7	13a,17a,29a,43,45,47,57a,59a 75,77,79,85,129a, SmartWork
7	<a href="#">Reactions in Solution:</a> Acid-Base, Precipitation Oxidation-Reduction Reactions, <a href="#">Quiz 6 due</a>	4.6, 4.9	63, 67, 68, 101a, 103a, 115, SmartWork
8	<a href="#">Quiz 7 due. Exam II (Lectures 4-7)</a> <a href="#">Nuclear Reactions</a>	21	21, 22, 26, 37, SmartWork
9	<a href="#">Gas Laws, Kinetic Molecular Theory</a>	6	37, 47, 55, 57, 69, 73, 79, 85, 105a, 137, SmartWork
10	<a href="#">Atomic Structure, Quantum Theory. Quiz 8 due</a>	7.1-7.7	27, 31, 55, 80, 85, 87, SmartWork
11	<a href="#">Quantum Theory, Electron Configuration.</a> <a href="#">Quiz 9 due</a>	7.8-7.12	89, 97, 99, 101, 103, 105, 107,119,121,123, SmartWork
12	<a href="#">Chemical Bonding, Lewis Structures,</a> Molecular Shape. <a href="#">Quiz 10 due</a>	8.1-8.3, 8.5-8.7 9.1-9.2	8(22, 37, 44, 47, 53, 55) 9(11, 25, 29), SmartWork
13	<a href="#">Molecular Structure: Bond and Molecular</a> Polarity. <a href="#">Quiz 11 due</a>	8.8, 9.3-9.4, 9.7	8(115, 119) 9(41, 45), SmartWork
14	Molecular Structure <a href="#">Exam III (Lectures 8-14)</a>		
15	Final Exam (comprehensive)		

\*\* Checked the following week.

**Textbook:** Chemistry & Chemical Reactivity, 8<sup>th</sup> Edition; Kotz, Treichel, Townsend; Thomson-Brooks-Cole; ISBN 9780495387039.

Class	Topics	Chapter	Minimum Homework
1	Matter, Measurement, Mathematics	1	p20-21: 5,7,16,17,23 p44-49: 9,15,16,41
2	Periodic Table	2.1-2.5	5,17,23, 85
	Atoms and Elements		
3	Molecules, Ions and Compounds	2.6-2.10	29,35,41,43,49,51,57,63
	Atomic Mass, The Mole, Molar Mass		
4	Exam I (Lectures 1-3)		
	Chemical Formulas: Mass Relationships	2.10-2.11	69,73,79, 85
5	Chemical Reactions: Mass Relationships	3.1-3.2	3.5
		4.1-4.4	4.5,9,17,21,25,31
6	Solution Concentrations, Molarity	4.5	4.37,45,51
	Aqueous solutions	3.3-3.8, 3.10	3.11,19,27,35, 41
7	Reactions in Solution/Acid-Base	3.9-3.10, 4.7	3.45,47,51; 4.59,69
	Oxidation-Reduction Reactions	20.1	20.3
8	Exam II (Lectures 4-7)		
	Nuclear Reactions	23	11,13,17
9	Gases	11	5,9,15,17,25,31,37,45, 47
10	Atomic Structure	6	5,9,13,27,37,43,67
11	Electron Configuration	7	3,11,19,23,25,27,31,51
12	Chemical Bonding	8.1-8.6	11,13
13	Molecular Structure	8.6-8.9	17,27,31,37
14	Molecular Structure		
	Exam III (Lectures 8-14)		
15	Final Exam (comprehensive)		

**Textbook:** Chemistry & Chemical Reactivity, 7<sup>th</sup> Edition; Kotz, Treichel, Townsend; Thomson-Brooks-Cole; SBN-10 0-495-38703-7.

<b>Date*</b>	<b>Topics</b>	<b>Chapter</b>	<b>Minimum Homework</b>
4-Sep 8-Sep	Matter, Measurement, Mathematics	1	p20-21: 5,7,11,19,37 p43-49: 9,15,17,21,37
11-Sep 15-Sep	Periodic Table Atoms and Elements	2.1-2.5	5,11,19,23, 85
18-Sep 22-Sep	Molecules, Ions and Compounds Atomic Mass, The Mole, Molar Mass	2.6-2.10	29,35,41,43,49,51,57,63
25-Sep 29-Sep	Exam I (Lectures 1-3) Mass Relationships in Chemical Formulas	2.10-2.11	69,75,83
2-Oct 6-Oct	Chemical Reactions & Mass Relationships	3.1-3.2 4.1-4.4	3.5 4.5,9,17,21,25,31
9-Oct 13-Oct	Solution Concentrations, Molarity Aqueous solutions	4.5 3.3-3.8, 3.10	4.37,45,51 3.11,19,27,35,37
16-Oct 20-Oct	Reactions in Solution/Acid-Base Oxidation-Reduction Reactions	3.9-3.10, 4.7 20.1	3.41,43,51; 4.59,69 20.3
23-Oct 27-Oct	Exam II (Lectures 4-7) Nuclear Reactions	23	11,13,17
30-Oct 3-Nov	Gases	11	5,9,15,17,25,27,31,37,45,47
6-Nov 10-Nov	Atomic Structure	6	5,9,13,27,37,43,67
13-Nov 17-Nov	Electron Configuration	7	3,11,19,23,25,27,31,51
20-Nov 24-Nov	Chemical Bonding	8.1-8.6	11,13
4-Dec 1-Dec	Molecular Structure	8.6-8.9	17,27,31,37
11-Dec 8-Dec	Molecular Structure Exam III (Lectures 8-14)		
18-Dec 15-Dec	Final Exam (comprehensive)		