Sussex County Community College
Newton, NJ 07860
Course: CHEM 100

Textbook: Introductory Chemistry: Concepts and Critical Thinking, Charles H. Corwin, 8th Edition, Pearson-Prentice-Hall, ISBN 9780321804907.

Date*	L	Topics	Chapter	Homework Assigned
7-Sep		Introduction	1	None in Chapter 1
		Scientific Calculation, % by Mass,	PSS	Ch PSS (7,9,11,13,17,19,21,23,
		Unit Analysis (drlchem.com)		25,37).
14-Sep	2	Metric system, Measurements	2	1,13,15,21,27,35,43,57, 61
		Density, Temperature, Heat		Quiz 1
21-Sep	3	Matter, Elements, Compounds	3.1-3.7	1-5,7,9,13,17,21,23,25,29,35,
		Physical & Chemical Changes		43, 51, Quiz 2
28-Sep	4	Atomic structure, Electron	4.1, 4.10	Ch4 (75, 77)
		Configuration, Periodic Trends,	5.1-5.7, 5.9	Ch5 (21,29,31,33,35
		Elemental Properties, Ions	5.10	47,49,51,53,59,67), Quiz 3
5-Oct	5	Exam I (Lectures:L 1-3)		Quiz 4
		Ionic and Covalent Bonds	12.1-12.3	1, 3, 5, 11, 15, 17a, 19, 25, 31
12-Oct	6	Chemical Formulas, Ions, Acids	6	5, 13, 15, 19, 21, 25, 27,
		Inorganic Compounds		35, 37, 45, 49, 51
19-Oct	7	Chemical Reactions, Balancing,	7.1-7.6	Ch 7 (7, 9, 13, 17, 25, 27, 35,
		Acid/Base, Salts,	7.11	45, 75, 77)
		Acid/Base Properties, pH, Buffer	14.1	Ch14 (1-4), Quiz 5
26-Oct	8	Mole Concept, Molar Mass	8.1-8.3	Ch8 (3, 13, 21)
		Mole-Mole, Mass-Mass conversion	9.1-9.4	Ch9 (7, 11, 19, 21, 25), Quiz 6
2-Nov	9	Exam II (Lectures:L 4-7)		
		Solution Chemistry	13.8-13.10	43, 49, 53, 57, 65, Quiz 7
9-Nov	10	Oxidation and Reduction	17.1-17.2	1, 3, 5a, 7, 11, 13a, 15
		Nuclear Chemistry	18.1-18.2	1, 2, 5, 6, 9,11, 21, Quiz 8
16-Nov	11	Organic compounds, Types	19	5,15,21,25,41,42,43,44,52,58,61
		Nomenclature, Properties		62,65,67,73,75,77,79, Quiz 9
30-Nov	12	Biological Compounds, Proteins	20	1, 2, 7, 9, 33, 45, 55, 57
		Lipids, Carbohydrates, Nucleic		59, 61, 63, Quiz 10
		Acids		
7-Dec	13	Exam III (Lectures:L 8-12)		Quiz 11
14-Dec	14	Review Exam III and for Final		
21-Dec	15	Final Exam		

Textbook: Introductory Chemistry: Concepts and Critical Thinking, Charles H. Corwin, Seventh Edition, Pearson-Prentice-Hall, ISBN 9780321663054

Date*	L	Topics	Chapter	Homework Assigned
3-Sep	1	Introduction	1	None in Chapter 1
		Scientific Calculation, % by Mass,	PSS	Ch PSS (7,9,11,13,17,19,21,23,
		Unit Analysis (drlchem.com)		25,37).
10-Sep	2	Metric system, Measurements	2	1,13,15,21,27,35,43,57, 61
		Density, Temperature, Heat		
17-Sep	3	Matter, Elements, Compounds	3.1-3.7	1-5,7,9,13,17,21,23,25,29,35,
		Physical & Chemical Changes		43, 51
24-Sep	4	Atomic structure, Electron	4.1, 4.10	Ch4 (75, 77)
		Configuration, Periodic Trends,	5.1-5.7, 5.9	Ch5 (21,29,31,33,35
		Elemental Properties, Ions	5.1	47,49,51,53,59,67)
1-Oct	5	Exam I (Lectures:L 1-3)		
		Ionic and Covalent Bonds	12.1-12.3	1, 3, 5, 11, 15, 17a, 19, 25, 31
8-Oct	6	Chemical Formulas, Ions, Acids	6	5, 13, 15, 19, 21, 25, 27,
		Inorganic Compounds		35, 37, 45, 49, 51
15-Oct	7	Chemical Reactions, Balancing	7.1-7.6	Ch 7 (7, 9, 13, 17, 25, 27, 35,
		Acid/Base, Salts	7.11	45, 75, 77)
		Acid/Base Properties, pH, Buffer	14.1	Ch14 (1-4)
22-Oct	8	Mole Concept, Molar Mass	8.1-8.3	Ch8 (3, 13, 21)
		Mole-Mole, Mass-Mass conversion	9.1-9.4	Ch9 (7, 11, 19, 21, 25)
29-Oct	9	Exam II (Lectures:L 4-7)		
		Solution Chemistry	13.8-13.10	43, 49, 53, 57, 65
5-Nov	10	Oxidation and Reduction	17.1-17.2	1, 3, 5a, 7, 11, 13a, 15
		Nuclear Chemistry	18.1-18.2	1, 2, 5, 6, 9,11, 21
12-Nov	11	Organic compounds, Types	19	5, 15, 21, 25, 41, 42, 43, 44, 52
		Nomenclature, Properties		58, 61, 62, 65, 67, 73, 75, 77, 79
19-Nov	12	Biological Compounds, Proteins	20	1, 2, 7, 9, 33, 45, 55, 57
		Lipids, Carbohydrates, Nucleic		59, 61, 63
		Acids		
3-Dec	13	Exam III (Lectures:L 8-12)		
10-Dec	14	Review Exam III and for Final		
17-Dec	15	Final Exam		

Textbook: Introductory Chemistry: Concepts and Critical Thinking, Charles H. Corwin, Sixth Edition, Pearson-Prentice-Hall, ISBN 9780321663054

L	Topics	Chapter	Homework (Exercises)
1	Introduction	1, pp.1-4	None in Chapter 1
	Scientific Calculation, Unit	2	Ch2 (7,9,11,13,17,19,21,23,25,37,
	Analysis, Percent by Weight		53,67,69)
2	Metric system, Measurements	3	1,17a,19c,23a,27,29,
	Density, Temperature, Heat		37, 47,a, 49a, 53, 55
3	Matter, Elements, Compounds	4.1-4.7	1-5,7,9,15,18,20,23,25
	Physical & Chemical Changes		29, 43, 45, 51, 57
4	Atomic structure, Electron	5.1, 5.10	Ch5 (75, 77, 79)
	Configuration, Periodic Trends,	6.1-6.7, 6.9	Ch6 (21,29, 31, 33, 35
	Elemental Properties, Ions	6.10	47, 49, 51,53, 59, 67, 68, 73)
5	Exam I (Lectures:L 1-3)		
	Ionic and Covalent Bonds	12.1-12.3	1, 3, 5, 11, 15, 17a, 19, 25, 31
6	Chemical Formulas, Ions, Acids	7	5, 13, 15, 19, 21, 25, 27,
	Inorganic Compounds		35, 37, 45, 49, 51
7	Chemical Reactions, Balancing	8.1-8.6	Ch 8 (7, 9, 13, 17, 25, 27, 35,
	Acid/Base, Salts	8.11	45, 75, 77)
	Acid/Base Properties, pH, Buffer	15.1	Ch15 (1, 2, 3, 4)
8	Mole Concept, Molar Mass	9.1-9.3	Ch9 (3, 13, 21)
	Mole-Mole, Mass-Mass conversion	10.1-10.4	Ch10 (7, 11, 19, 21, 25)
9	Exam II (Lectures:L 4-7)		
	Solution Chemistry	14.8-14.10	43, 49, 53, 57a, 65
10	Oxidation and Reduction	17.1-17.2	1, 3, 5a, 7, 11, 13a, 15
	Nuclear Chemistry	18.1-18.2	1, 2, 5, 6, 9,11, 21
11	Organic compounds, Types	19	5, 15, 21, 25, 41, 42, 43, 44, 52
	Nomenclature, Properties		58, 61, 62, 65, 67, 73, 75, 77, 79
12	Biological Compounds, Proteins	20	1, 2, 7, 9, 33, 45, 53, 55
	Lipids, Carbohydrates, Nucleic		59, 61, 63
	Acids		
13	Exam III (Lectures:L 8-12)		
14	Review Exam III and for Final		
15	Final Exam		