

CHEM 1211K: Principles of Chemistry I – Course Outline

Week	Topics	LibGuide Lecture http://getlibraryhelp.highlands.edu/c.php?g=722488&p=52744 <u>79</u>	LibGuide Laboratory http://getlibraryhelp.highlands.edu/c.php?g=722488&p=52745 <u>96</u>
1	Measurements, Significant Figures	OpenStax Ch. 1, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=51832 <u>64</u> Assignment: OWL Math Review Homework	
2	Dimensional Analysis, Atomic Structure, Periodic Table	Assignment: OWL Ch. 1 Homework OpenStax Ch. 2, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=51833 <u>48</u>	Significant Figures & Scientific Notation
3	Chemical Formulas, Nomenclature, Chemical Composition	Assignment: OWL Ch. 2 Homework OpenStax Ch. 3, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=53109 <u>74</u>	Nomenclature
4	Moles, Solutions	Assignment: OWL Ch. 3 Homework	Laboratory Measurements
5	Reaction Stoichiometry, Limiting Reagents	OpenStax Ch. 4, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=53109 <u>75</u>	Determination of Ionic Compound Formula
6	Chemical Reactions	Assignment: OWL Ch. 4A	
7	Chemical Reactions, cont.	Assignment: OWL Ch. 4B	Chemical Reactions
8	Review and Midterm exam		
9	Thermochemistry	OpenStax Ch. 5, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=53109 <u>76</u>	Acid-Base Titration and Analysis of Vinegar
10	Gases	Assignment: OWL Ch. 5	

		OpenStax Ch. 9, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=5310980	
11		Assignment: OWL Ch. 9 HW	Ideal Gas Law
12	Electronic Structure and Periodic Properties	OpenStax Ch. 6, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=5310977	Enthalpy of Dissolution and Neutralization, Enthalpy of Formation
13	Chemical Bonding and Molecular Geometry	Assignment: OWL Ch. 6 HW OpenStax Ch. 7, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=5310978	Chemical Bonding and Structure
14	Advanced Theories of Covalent Bonding	OpenStax Ch. 8, lecture notes, chapter checklist, videos http://getlibraryhelp.highlands.edu/c.php?g=722488&p=5310979	
15	Review, Catch-up	Assignment: OWL Ch. 7/8	
16	Final Exam		