

**CHEM 1212K: Principles of Chemistry II – Course Outline**

<b>Week</b>	<b>Topics</b>	<b>LibGuide Lecture</b> <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745</a> <u>05</u>	<b>LibGuide Laboratory</b> <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745</a> <u>96</u>
1	CHEM I Review, Intermolecular Forces	Assignment: OWL Math Review Homework  OpenStax Ch. 10, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=53111">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=53111</a> <u>54</u>	
2	Properties of Liquids, Phase transitions, Solutions	Assignment: OWL Ch. 10 Homework  OpenStax Ch. 11, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=53108">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=53108</a> <u>36</u>	
3	Colligative Properties	Assignment: OWL Ch. 11 Homework	Introductory Lab - Graphing
4	Chemical Kinetics	OpenStax Ch. 12, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745</a> <u>06</u>	Lewis Structures, Polarity, and Chromatography
5	Chemical Kinetics, cont.	Assignment: OWL Ch. 12 Homework	Freezing Point Depression
6	Chemical Equilibrium	OpenStax Ch. 13, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745</a> <u>49</u>	Absorption vs. Concentration
7	Chemical Equilibrium, cont.	Assignment: OWL Ch. 13 Homework	Rates of Chemical Reactions
8	Review and Midterm exam		Chemical Equilibrium – LeChatelier’s Principle
9	Acid-Base Chemistry	OpenStax Ch. 14, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=52745</a> <u>94</u>	Determination of an Equilibrium Constant, Keq
10	Acid-Base Equilibria	Assignment: OWL Ch. 14A Homework	

11	Buffers, Titration	Assignment: OWL Ch. 14B Homework	Buffers
12	Ionic Equilibria, Solubility	OpenStax Ch. 15, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311139">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311139</a> Assignment: OWL Ch. 15 HW	Determination of the $K_a$ for a Weak Acid
13	Thermodynamics	OpenStax Ch. 16, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311144">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311144</a> Assignment: OWL Ch. 16 Homework	Vapor Pressure of Water
14	Electrochemistry	OpenStax Ch. 17, lecture notes, chapter checklist, videos <a href="http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311146">http://getlibraryhelp.highlands.edu/c.php?g=722488&amp;p=5311146</a>	Electrochemistry
15	Review, Catch-up	Assignment: OWL Ch. 17 homework	
16	Final Exam		