

# PAP Chemistry 2018 - 2019 Fall Sequence

Module	Date	Topic	Chapter(s) in Book	Lecture 1	Lecture 2
1	Aug 16 - 17	1.1	Chapter 1	1.1 Lab Safety	1.2 SI Units & Metric Prefixes
1	Aug 20 - 24	1.2	Chapter 9	8.1 Properties to describe gases	8.2 KMT
1	Aug 27 - 31	1.3	Chapter 9	8.3 Ideal gases and Ideal Gas Law	8.4 Dalton's law of Partial Pressure
2	Sep 3 - 7	2.1	Chapters 1, 9	Gas Laws	1.3 Sig figs <u>AND</u> 1.4 Scientific notation
2	Sep 10 - 14	2.2	Chapter 2	3.1 Atomic structure & ions <u>AND</u> 3.3 Basics of the periodic table	5.1 Ionic FW - Main group & hydrates
3	Sep 17 - 21	3.1	Chapter 2	5.2 Ionic FW - Transition metals	5.3 Ionic FW - polyatomic ions
3	Sep 24 - 28	3.2	Chapter 2	5.4 - Formula writing - Acids	5.5 Formula Writing - Covalent
4	Oct 1 - 5	4.1	Chapters 2, 3	5.6 Naming based on formulas	6.2 Formula mass
4	Oct 8 - 12	4.2	Chapter 3	9.4 The Mole & Concentration	9.5 Making a standard solution
5	Oct 15 - 19	5.1	Chapter 4	2.1 Properties and changes in matter <u>AND</u> 7.1 Types of reactions	7.2 Balancing
6	Oct 22 - 26	6.1	Chapters 4, 14, 17	11.6 Red-Ox reactions (1st half only)	11.5 pH scale and pH calculations
6	Oct 29 - Nov 2	6.2	Chapter 4	6.3a Stoichiometry	6.3b What does stoichiometry tell us?

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7	Nov 5 - 9	7.1	Chapter 4	6.4 Percent composition by mass	6.5 Molecular formula
7	Nov 12 - 16	7.2	Chapter 4	7.3 Limiting reactants	7.4 Percent yield
	Nov 19 - 23	Thanksgiving Break			
8	Nov 26 - 30	8.1	Chapter 9	7.5 Predicting products	8.4 Gas stoichiometry
8	Dec 3 - 7	8.1	Chapter 9	8.7 Density of gases	8.8 Effusion -vs- diffusion
9	Dec 10 - 14	9.1	Chapter 5	12.1 Intro to calorimetry	12.2 Heating and cooling curves
10	Dec 17 - 21	10.1	Review	Review	Review

- 1.) Students are expected to be ready to discuss topics contained within the chapters and lectures designated for each module on the day the module begins. If there are misunderstandings please attend tutorials prior to the start of the module.
- 2.) Lectures with an "EK" prefix are found in the AP section of the website and lectures with only a numerical designation (ex. 8.4) are found in the PreAP section of the website ([www.doolanchemistry.com](http://www.doolanchemistry.com))
- 3.) There will be a test on the last day of each module. Tests are cumulative and will have information from prior modules.
- 4.) There will be a quiz each week that will be announced in advance. The quizzes are cumulative and will contain information from prior modules