

Chem 31A Fall 2015 Course Calendar

September/October 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Sept 20	21 [CYCLE 1 STARTS] Lecture 1: Problem Solving in Chemistry <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Section 1: Synthesis of Zl_2 Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Chapter 1 	22 <ul style="list-style-type: none"> Section 1 (cont.) Waymouth OH: 11:30am-1pm (Stauffer I-205) OH: 7-10pm (TBA) Problem Set 1 Assigned 	23 Lecture 2: Number in chemistry: stoichiometry, Conservation of Mass <ul style="list-style-type: none"> Section 1 (cont.) OH: 12:30-1:30pm (OC106/108) Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Chapter 2 	24 <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10 pm (TBA) 	25 Lecture 3: the Language of Chemistry: Chemical Formulas and Reactions <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Reading Due: Chap 3.1-10
27 <ul style="list-style-type: none"> OH: 7-10pm (TBA) 	28 Lecture 4: Limiting Reagent <ul style="list-style-type: none"> Problem Set 1 Due [2:30 pm] OH: 12:30-1:30pm (OC106/108) Section 2: Behavior of Gases Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Chap. 4.1-4.4 	29 <ul style="list-style-type: none"> Section 2(cont) Waymouth OH: 11:30am-1pm Stauffer I-205 OH: 7-10pm (TBA) Problem Set 2 Assigned 	30 <ul style="list-style-type: none"> Section 2 (cont) Lecture 5: The Ideal Gas Law OH: 12:30-1:30pm (OC106/108) Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Chap. 5.1-5.5 	Oct. 1 <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10pm (TBA) 	2 Lecture 6: Partial Pressures and Stoichiometry of Gases <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Lab Write-up Due [2:30 pm] Reading Due: Chap 5.6-7
4 <ul style="list-style-type: none"> OH: 7-10pm (TBA) 	5 Lecture 7: Kinetic Molecular Theory(KMT) and Temperature <ul style="list-style-type: none"> Problem Set 2 Due [2:30 pm] Section 3: KMT OH: 12:30-1:30pm (OC106/108) Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Chap. 5.8-10 	6 <ul style="list-style-type: none"> Section 3 (cont.) Waymouth OH: 11:30am-1pm Stauffer I-205 OH: 7-10pm (TBA) 	7 Lecture 8: Problem Solving Review <ul style="list-style-type: none"> Section 3 (cont.) OH: 12:30-1:30pm (OC106/108) <p style="text-align: center;">EXAM 1: 6 - 7:15pm</p>	8 [CYCLE 2 STARTS] <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10 pm (TBA) 	9 Lecture 9: First Law of Thermodynamics LECTURE LOCATION MOVED (TBA) <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Reading Due: Chap 6.1-4 Study list (add/drop) deadline

October/November 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<p>11</p> <ul style="list-style-type: none"> OH: 7-10pm (TBA) 	<p>12 Lecture 10: Energy and Enthalpies of Reactions</p> <ul style="list-style-type: none"> Section 4: Calorimetry OH: 12:30-1:30pm (OC106/108) Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Ch.6.5-6 	<p>13</p> <ul style="list-style-type: none"> Section 4 (cont.) Waymouth OH: 11:30am-1pm Stauffer I-205 OH: 7-10pm (TBA) Problem Set 3 Assigned 	<p>14 Lecture 11: Calorimetry</p> <ul style="list-style-type: none"> Section 4 (cont.) OH: 12:30-1:30pm (OC106/108) Reading Due: Ch. 6.7 Outreach: 6-7p Braun Aud OH: 7-8:30p (Braun Aud) 	<p>15</p> <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10 pm (TBA) 	<p>16 Lecture 12: Hess's Law, Heats of Rxn</p> <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Reading Due: Ch.6.8-9
<p>18</p> <p><i>Reminder: QUEST 1 is due the day before your section [submit online by 2:30pm in CourseWork dropbox]</i></p> <ul style="list-style-type: none"> Pre-QUEST due for Monday sections OH: 7-10pm (TBA) 	<p>19 Lecture 13: Light and Spectroscopy</p> <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Problem Set 3 Due [2:30 pm] QUEST due for Tuesday sections Section 5: Spectroscopy Outreach: 6-7p (Braun Aud) OH: 7-8:30p (Braun Aud) Reading Due: Ch. 7.1-4 	<p>20</p> <ul style="list-style-type: none"> Section 5 (cont.) Waymouth OH: 11:30am-1pm Stauffer I-205 Pre-QUEST due for Wednesday sections OH: 7-10pm (TBA) Problem Set 4 Assigned 	<p>21 Lecture 14: The Oddity of Electrons</p> <ul style="list-style-type: none"> Section 5 (cont.) OH: 12:30-1:30pm (OC106/108) Reading Due: 7.5-6 Outreach: 6-7p Braun Aud OH: 7-8:30p (Braun Aud) 	<p>22</p> <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10 pm (TBA) 	<p>23 Lecture 15: Electronic Configurations</p> <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Lab write-up Due [2:30 pm] Reading Due: Ch.8.1-8.5
<p>25</p> <ul style="list-style-type: none"> OH: 7-10pm (TBA) 	<p>26 Lecture 16: Trends in atomic and ionic properties</p> <ul style="list-style-type: none"> Problem Set 4 Due [2:30 pm] Section 6: Periodicity of Metals OH: 12:30-1:30pm (OC106/108) Outreach: 6-7pm (Braun Aud) OH: 7-8:30pm (Braun Aud) Reading Due: Ch. 8.6-8 	<p>27</p> <ul style="list-style-type: none"> Section 6 (cont.) Waymouth OH: 11:30 am -1 pm Stauffer I-205 OH: 7-10pm (TBA) 	<p>28 Lecture 17: Problem Solving</p> <ul style="list-style-type: none"> Section 6 (cont.) OH: 12:30-1:30pm (OC106/108) <p style="text-align: center; color: magenta;">EXAM 2: 6 - 7:15pm</p>	<p>29 [CYCLE 3 STARTS]</p> <ul style="list-style-type: none"> Schwartz OH: 1-3pm (Chem Gazebo) OH: 7-10 pm (TBA) 	<p>30 Lecture 18: Types of Chemical Bonds</p> <ul style="list-style-type: none"> OH: 12:30-1:30pm (OC106/108) Reading Due: 9.1-4

November 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
1 <ul style="list-style-type: none"> • OH: 7-10pm (TBA) 	2 Lecture 19: Covalent Bonds and Lewis Structures <ul style="list-style-type: none"> • Section 7 : Chemical Bonds • OH: 12:30-1:30pm (OC106/108) • Outreach: 6-7pm (Braun Aud) • OH: 7-8:30pm (Braun Aud) • Reading Due: 9.5-8 & 4.5 	3 <ul style="list-style-type: none"> • Section 7 (cont.) • Waymouth OH: 11:30am-1pm Stauffer I-205 • OH: 7-10pm (TBA) • Problem Set 5 Assigned 	4 Lecture 20: Correlating data with structures <ul style="list-style-type: none"> • Section 7 (cont.) • OH: 12:30-1:30pm (OC106/108) • Outreach: 6-7p Braun Aud • OH: 7-8:30p (Braun Aud) • Reading Due: 9.9-11 	5 <ul style="list-style-type: none"> • Schwartz OH: 1-3pm (Chem Gazebo) • OH: 7-10 pm (TBA) 	6 Lecture 21: Predicting Molecular Shapes <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Reading Due: 10.1-4
8 <ul style="list-style-type: none"> • OH: 7-10pm (TBA) 	9 Lecture 22: Molecular Shape, polarity, & hybridization <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Section 8: Shapes of Molecules • Outreach: 6-7pm (Braun Aud) • OH: 7-8:30p (Braun Aud) • Problem Set 5 Due [2:30 pm] • Reading Due: 10.5-7 	10 <ul style="list-style-type: none"> • Section 8 (cont.) • Waymouth OH: 11:30am-1pm Stauffer I-205 • OH: 7-10pm (TBA) • Problem Set 6 Assigned 	11 Lecture 23: MO Theory <ul style="list-style-type: none"> • Section 8 (cont.) • OH: 12:30-1:30pm (OC106/108) • Outreach: 6-7p Braun Aud • OH: 7-8:30p (Braun Aud) • Reading Due: 10.8 	12 <ul style="list-style-type: none"> • Schwartz OH: 1-3pm (Chem Gazebo) • OH: 7-10 pm (TBA) 	13 Lecture 24: Intermolecular Forces <ul style="list-style-type: none"> 11-11:50a BraunAud 1:15-2:05p BraunAud • OH: 12:30-1:30pm (OC106/108) • Reading Due :11.1-11.4 • Lab write-up Due [2:30 pm] • Change of grading basis deadline • Course Withdrawal Deadline
15 <ul style="list-style-type: none"> • OH: 7-10pm (TBA) 	16 Lecture 25: Vapor Pressure <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Problem Set 6 Due [2:30 pm] • Section 9: Intermolecular Forces • Outreach: 6-7pm (Braun Aud) • OH: 7-8:30p (Braun Aud) • Reading Due: 11.5 	17 <ul style="list-style-type: none"> • Section 9 (cont.) • Waymouth OH: 11:30am-1pm Stauffer I-205 • OH: 7-10pm (TBA) 	18 Lecture 26: Problem Solving <ul style="list-style-type: none"> • Section 9 (cont.) • OH: 12:30-1:30pm (OC106/108) <p style="text-align: center; color: magenta; font-weight: bold; font-size: 1.2em;">EXAM 3: 6 - 7:15pm</p>	19 [CYCLE 4 STARTS] <ul style="list-style-type: none"> • Schwartz OH: 1-3pm (Chem Gazebo) • OH: 7-10 pm (TBA) 	20 Lecture 27: Phase Diagrams <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Problem Set 7 Assigned • Reading Due: 11.6-11.9

November/December 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
22 <ul style="list-style-type: none"> • OH: 7-10pm (TBA) 	23 Thanksgiving Break No class	24 Thanksgiving Break No class	25 Thanksgiving Break No class	26 Thanksgiving Break No class	27 Thanksgiving Break No class
29 <i>Reminder: QUEST 2 is due the day before your section [submit online by 2:30pm in CourseWork dropbox]</i> <ul style="list-style-type: none"> • QUEST due for Monday sections • OH: 7-10pm (TBA) 	30 Lecture 28: Crystalline Solids <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Section 10: Heats of Crystallization • QUEST due for Tuesday sections • Outreach: 6-7p Braun Aud • OH: 7-8:30p (Braun Aud) • Reading Due: 11.10-11.12 	Dec 1 <ul style="list-style-type: none"> • Section 10 (cont.) • Waymouth OH: 11:30am-1pm Stauffer I-205 • QUEST due for Wed sections • OH: 7-10pm (TBA) 	2 Lecture 29: Review of Reactions – Putting it all together <ul style="list-style-type: none"> • Section 10 (cont.) • OH: 12:30-1:30pm (OC106/108) • Outreach: 6-7p Braun Aud • OH: 7-8:30p (Braun Aud) • Reading: review 4.4 	3 <ul style="list-style-type: none"> • Schwartz OH: 1-3pm (Chem Gazebo) • OH: 7-10 pm (TBA) 	4 Lecture 30: Course Challenge Problem <ul style="list-style-type: none"> • OH: 12:30-1:30pm (OC106/108) • Problem Set 7 Due [2:30 pm]
6	7	8	9 FINAL EXAM 7:00 – 10:00pm	10	11