Chemistry 1A - Winter 2018
CALGHER

Silberberg & Amateis, THE MOLECULAR NATURE OF MATTER & CHANGE, 8TH ED
De Anza College Department of Chemistry Lab. Exp. (Access on-line)

WEEK OF:	CHAPTER-:	LECTUR-E TOPIC:	.Assignment§:
L Jan8	CHP-t CHP-4;21	Matter and Measurement Non-redox-Redox Eqns. Course Mechanics	
12. Jan t5	CHP-1 CHP-2 Q11)4,21	Matter and·Meastlfementcontinued; Atoms., Elements & Cpds **Lecture Quiz 1,1-19**	
3. Jan22	CHP-3	Formufa & Eqn Sfofchfometry **Redox 0-uiz 1, 1-24**	
4. Jan29	CHP 3Cont. GHP4	Formufa & Equation Stoichiometry Reactions in Aqueous soin. **Lectyre Midterm 1,2-2**	
5. Feb5	CHP-5 CHP6	Brief Intro. Gases Energy in Chernicar Equations.	
6. Feb 12	CHP6	Energy in Chemical Equations . **Lab. Midterm I, 2-14**	
7. Feb 19	CHP 7	Atomic Structure **Le tyre Qyiz 11-2-23**	
8. -Feb26	CHP 7 CHP8	Atomic Structur.e; Periodicity **Lecture Midterm 11-3-2**	
9 .Mar 5	CHP 8 CHP 9	Chemical Periodicity; Models of Chemical Bonding **Redox Q1z n, -7**	
rn. -Mar 12	GHP 9	Molecular Geometry **Lecture Midterm 111-3-16**	
tl. Mart9	CHP9, 10, & 11	Molecular Geometry/orbitals **R-evi.ew fo.r .Final Exam.** **Lab. Midterm 3-21** **Lat2or5!t0rl£ heck out.**	
12. Mar26		**Finat Exs1mins1tion-a-2§-2017.** .g:15-11 15 **A.·M.** YQU M-!;,!ST ·B·E PRESENT FOR THI EXAM. NQ ALTERNATIVE OATES WILL BE ALLQWED. Final ts1ken in lect. I.Q.Q.fil...	

Ws!rning: vou can expect a 10 point pop quiz s1t slDll time during lecture; they c5!nnot be made up.

CHEM 1A

LAB MEETS TWICE A WEEK

WINTER 18

WEEK OF	WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
1/7/18	1	CHECK-IN	CHECK-IN	MEASUREMENT (NO PREP)	MEASUREMENT (NO PREP)
1/14/18	2	**MARTIN LUTHER KING'S DAY**	NOMEMCLATURE (NO PREP)	NOMEMCLATURE (NO PREP)	HYDRATE (1)
1/21/18	3	HYDRATE (1)	HYDRATE (2)	HYDRATE (2)	PRECIPITATION (1)
1/28/18	4	PRECIPITATION (1)	PRECIPITATION (2)	PRECIPITATION (2)	TYPES OF REACTIONS (1)
2/4/18	5	TYPES OF REACTIONS (1)	TYPES OF REACTIONS * (2)	CONDUCTIVITY (1) (VERNIER)	CONDUCTIVITY (1) (VERNIER)
2/11/18	6	CONDUCTIVITY (2) (VERNIER)	CONDUCTIVITY (2) (VERNIER)	ACID-BASE TITRATION (1)	ACID-BASE TITRATION (1)
2/18/18	7	**PRESIDENT'S DAY**	ACID-BASE TITRATION (2)	ACID-BASE TITRATION (2)	REDOX TITRATION (1)
2/25/18	8	REDOX TITRATION (1)	REDOX TITRATION (2)	REDOX TITRATION (2)	REDOX TITRATION (3)*
3/4/18	9	REDOX TITRATION (3)*	CALORIMETRY (1)	CALORIMETRY (1)	CALORIMETRY (2)
3/11/18	10	CALORIMETRY (2)	LINE SPECTRA	LINE SPECTRA	MOLECULAR MODEL(l)
3/18/18	11	MOLECULAR MODEL (1)	MOLECULAR MODEL(2)*	CHECK-OUT	CHECK-OUT
3/28/18	12	FINALS	FINALS	FINALS	FINALS

+: EXTRA DAY

*=EXTRADAY

t. Where and when the instructor can be found:

A. Office: Science Center, Room No.: SC-1220. (2-nd floor)
B. Office phone no.: (408)-550-4216
C. E-mail: calgherpaul@fhda.edu
D. Office hours: M & W 2:30 -3:20 P.M.; Fri: 9:30-10:20

tt. Attendance polrcy:

A. If you miss two consecutive lectures or laboratories, you will be dropped from the class.
B. Be sure that you are present for both lecture and laboratory for the entire designated time period.
C. Do not leave a laboratory session before the designated ending time without first checking out with your instructor.
D. Be sure that you sign the attendance sheet, using your complete signature (No lnitia1s !H!), at each lecture and laboratory meeting.

III. Examinations and Laboratory Reports:

A. All examinations and quizzes, with the exception of ten point quizzes in lecture, will be announced. Pfease see bottom section of the syffabus.
8. All laboratory reports wm be due one week after completion of the specific laboratory exercise. **LATE LABORATORY REPORTS WILL NOT BE ACCEPTED. NO LABORATORY .REPORTS WJLL, BE .REQUJ.RED FO.R THE QUA.LJTATJVE A.NALYTJCAL SECTJO.N OF THE CHEMISTRY 1C LABORATORY.**
C. A comprehensive final examination will be given on the **OFFICIAL COLLEGE FINAL DATE: IN THE INTEREST OF FINAL EXAM SECURITY AND FAIRNESS TO ALL STUDENTS IN ALL OF MY CHEMISTRY SECTIONS, I WILL NOT ACCOMODATE ANY REQUESTS FOR ALTERNATE FINAL EXAMINATION DATES!!!!!!!!!!!!!!!!!!!!!**
D. Final course grades will be posted in the college secureportal.

IV. Grading Policy and Course Point Allocation:

A. This course is graded on a total point basis.
B. Upon returning each examination, a class average and point-letter grade scale will be written on an acetate sheet ond projected using an overhead projector.
C. It is the responsibrlity of the student to keep a running total of his/her points throughout the quarter so that one wm always know their totat point accumulation and percentage of totaf po1nts attained so that one will always .know their letter-.grade standing in the course. Piease see ledger for recording points presented on page 3.
D. A representative grade scale is presented below:

(100-85) %	=	A
(64-72) -%	=	8
(71-60} %	=	C
{ 59-40) %	=	D
(39-00) %	=	F

E. Point Allocations:

Leet.: Quizt	50	Points	Laboratory:		
Mid-term I	100	Points	Midterm I	150	Points
Quiz H	50	Points	Midterm U	150	Points
Midterm ti	100	Points			
Midterm tll	100	Points			
Final Exam.	200	Points	Reports	100	Points
Leet Pt.Tota:t	600	Points (60%)	Lab. Pt. Total	400	Points(40%)

V. Makeup Work:

A. No makeups allowed for laboratory work.

B. A missed examination can be made up only for legitimate cause. The instructor must be notified of an absence before a quiz -0r-midterm ts given. 'tO point qui zzes(unannounced} -cannot be made up; -you simply lose the bonus points. Without prior notification a quiz or midterm cannot be made up and a zero will be recorded for such quiz or midterm. Any allowed makeup must be completed within three school days that class tool< quiz or midterm and atso at the convenience of the instructor.

VJ. Withdrawa.t From Class:

A Each student risgist-ered in this.classis -expected to succ-essfuUy complete the course

B. If, for any conceivable reason, you are unable to complete this class, you must officiaJJy withdraw from class including checking out of your laboratory locker.

C. Failure to officially withdraw will result in a hold being placed on all grades and records, prohibition of your registering for a succeeding quarter, and the possibility of your receiving an "F" grade in this class.

D. **IF YOU A'R£ UNABt.£ TO COM·Pt.ET£ TH1S Ct.ASS, YOU MUST CHECK OUT *Or* YOUR LABORATORY LOCKER (OURtNG YOUR REGULARLY ASStGNEO LAB TtME) AS SOON-AS YOU -MAKE THE ·D-ECtStON-N-OT TO -CO-M.P-L-ET-E TtHS Ct.ASS. ,P-L-EAS-E -00 ·NOT WAIT UNTIL THE LAST MINUTE TO TAKE CARE OF THIS IMPORTANT MATTER. YOUR INSTRUCTOR JS THE O.NLY PERSON WHO CAN CH£CK YOU OUT OF YOUR .LABORA-TORY LOCKER. DO NOT BADGER ANOTHER FACULTY MEMBER AND ABOVE ALL, DO NOT ASK THE STOCKROOM TECHNICIAN TO CHECK YOU OUT: THIS MATTER IS NOT THE RESPONSIBILITY OF THE STOCKROOM TECHNICIAN.**

VII. Supplies to be Provided by the Student:

A.	Text:	SHberberg & Amateis (Requtred)
B.	Solution Manuat	For above text (Required}
C.	Lab. -Exercises	Access Departmental Web Site & Print out
D.	Calculator	Four function ca!c. with exp.Jin function (Reqjuired}
E.	Safety goggles	**YOU MUST PROVIDE YOUR OWN. YOU MUST WEAR THEM AT ALL TIMES WHILE IN THE LABORATORY.**
F.	Locker Security	**Combination Locks will be provided in laboratory.**
G.	Bound laboratory notebook	9-3/4 x 7-1/2 inch , quadrille, about 160 pages. {Required)

VI-H. Honor System and Confltct Resotution:

A Any evidence of dishonest during test, quiz, or lab sessions will be used as a potential basis for dismissal from this class.

B. Any course related complaints must first be brougt to the attention, promptly, of the instrucor before proceeding up the institutional organizational chart.

tX. Course Grade:

A. You will receive one grade in this course. The laboratory instructor will submit to the lecture instructor the points accrued (accumulated) in lab. The lab. points will be comgined with the lecture points in order to arrive at the overall course grade.

B. IN ORDER TO RECEIVE A POSSING GRADE IN THIS COURSE YOU MUST RECEIVE A PASSING GRADE IN THE LABORATORY PORTION Or TfIE COURSE. IF YOU RE-CEIVE A FAtUNG GRADE tN THE LABORATORY AND AN A. B . C OR D GRADE tN THE t.£CTU-R£. YO-U WILL R£C£W£ A-N-F G·R AO£ -IN TtI£ COURSE. U= THIS POU CY IS NOT CLEAR TO YOU, PLEASE SEE YOUR LECTURE INSTRUCTOR FOR A MORE -COMPLETE E X-P!. A N AT-10 -N 0-F TH S MOST -M-PO-RTANT PO!. CV.

X. Laboratory Safety:

A. laboratory safety is of prime importance at all times. **ST-UOENTS ·MUST WEAR SAFETY GOGGLES AT All TtMES WHtLE tN THE LABORATORY.**

B. During the first laboratory session you wm be shown the locaton of all -safety-euipmen-t along with instruc-t-ion as t-o how to use such eq.uJpment.

C. Specific safety aspects relating to a _particular experiment will be pointed out _prior to the _performance of each experiment.

XL Test Point Adjustment Policy:

A. Please do not attempt to plea bargain -more -points on any of your quiz/ test scores.

B. Point acfiustments wilJ only be made for arithmetic errors in score determination.

C. Any request for point adjustments due to arithmetic errors must be brought to the attention of the instructor with three days of the return date of the test.

xn. -Prohibition of ·use of An Electronic Communicatin Devices:

A **A-LL -E-L-ECT-RON;IC CO-M-MUN1CATIN -D-EV1C-ES -MUST -B-E T-U-RN-ED 0-F-F A-N-D -R-EMA1N OFF WHILE IN BOTH LECTURE AND LABORATORY. FAILURE TO FOLLOW THIS SIMPLE RULE WILL RESULT IN YOUR EXPULSION FROM THIS CLASS. PLEASE DO NOT LET THIS HAPPEN TO YOU.**

B. **IF YOU CANNOT STAND TO TURN OFF YOUR ELECTRONIC COMMUNICATION DEVICE. YOU ARE PROBABLY TOO BUSY TO BE SUCCESSFUL IN A CHEMISTRY COURSE.**

xm. Course Prerequisite:

A. Prep Course completed with a grade of C or higher.

B. tntermediate algebra completed with a grade.of C or higher.

C. Placement test score with a raw score of 19or more.

D. Chemistry i C: Must pass Chem i A and i B with a C or higher grade.

XtV. Pronibifion of "Buddy System" in taboratory:

ALL LABORATORY EXERCISES WILL BE PERFORMED INDIVIDUALLY UNLESS YOU ARE OTHERWISE NOTIFIED BY THE INSTRUCTOR.

XV. **All directions regarding placement of waste chemicals and related hazardous substances must be stricty adhered to. There is zero tolerance for any conceivable deviations from stated directions.**

XVI. SLO-stIldent 1eamrng objectives Wm be -distrtbuted trrst week of class.

XVII. Student Safety and Waste Disposal Contract wm be distributed at first laboratory m eetin.

COURSE POINT RECORDATION SHEET:

Name:_____(Family)
Name: (Given)
Lab. Section No.:_____

1. LECTURE:

Leet . Quiz. I ___ /50

Leet. M.T. 1 --- /100

Leet. Quiz. II -- *150*

Leet. M.T. tt ____/t0-0

Leet M.T. m ___ /100

Pop Quiz I---------- /

-PopQuizll --- *I*

Pop Quiz tu _____J

Pop Quiz IV ---------- /

Qafz *V* *f*

It LAB:

L-I _____/150

Lab. M.T. II ___ /150

Lab. Rpt. I _____/10

-lab.Rpt. ll ____110

Lab. Rpt. III _____/20

Lab. Rpt. IV --- /10

Lab. Rpt.V --- /10

Lab. Rpt. VI ___ /10

lab. Apt. VII ___ /10

Lab. Hpt. vm ___ *l10*

Lab. Hpt. IX _____*J10*

Lab. Rpt. X -- /10

Chem. 1C:

Electrochem Rpt. ___ /20

Complex Rpt. ____/10

Aspirin Rpt. _____/20

Cobalt Rpt. _____/10

Anion Rpt. --- /10

Group A Apt _____ tto

GroupB Rpt. ___ /25

Groupe Apt. ____ /25

GroupD Hpt. ___ *120*

Ill. Final Ex. _____*l200*

Lab. Section No.:_____;Course and Number:_____ Family Name:_____
Given Name:_____

Course and School Background:

Former rug-h school:_____ Year graduated:_____

Previous Biological Sciences: (Give course name and year taken):

_____

_____

Previous Physical Sciences: (Give coure name and year taken) :

_____

_____

Prevous Mathematics.: {Give course .name and year taken):

_____

_____

Career Objectives:_____

Reason(s) for taking this course:_____

Total unit course load th1s qu art er :_____

Total number of hours of outside work {gainful employment) thJs quarter:_____

Total number of quarter hours attained thus far:_____

Study List for this quarter:

Course and number:	Instr-uctor name:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

For Chemistry 1A students only; have you taken the General Chemistry Placement Examination ? Yes No (Circle one)

If you answered "yes" to the above question, what was your score ?_____
Please1m out and-detach and *g}ve* to your LECTURE +NSTRUCTOR AT END OF FIRST CLASS MEETING.

Student Learning Outcome(s):

*Identify and explain trends in the periodic table.
*Construct balanced reaction equations and illustrate principles of stoichiometry.
*Apply the first law of thermodynamics to chemical reactions.