

Chem 162A Winter 2021 (SLN 12186) Course Schedule

This schedule is tentative and subject to change. Any changes will be announced on the course website.

For the Lecture content, the number in bold is the lecture/lesson number; the numbers in parentheses are the reading assignments and book sections related to the lecture/lesson.

Week (Mon)	Monday (Lect)	Tuesday (Qz/Disc Sect)	Wednesday (Lect, Quiz, Lab* & ALEKS **)	Thursday (Lab*)	Friday (Lect & Lab*)
Week 1 (1/4)	Intro. to Course 1.1: Review of orbitals, LDS, and VSEPR (4.1-3)	Worksheet 1	1.2: Atomic Orbital Hybridization (4.4-7) No labs this week ALEKS Initial K.C., Due 11:59pm	No labs this week	1.3: Molecular Orbital Model of Bonding (4.8-10) No labs this week
Week 2 (1/11)	1.4: Magnetism (Box 4.2, p. 130); Diatomics (4.11)	Worksheet 2	Quiz #1, Wed 1/13 L1.1-3 Remote-Labs Orientation ALEKS Obj. 1 (4.1-4.10), Due 11:59pm	Remote-Labs Orientation	1.5: UV-Vis Spect.(4.12; MT 2 (pp. 146-147)) Remote-Labs Orientation
Week 3 (1/18)	HOLIDAY	Worksheet 3	2.1: Intermolecular Forces (6.1-8) No labs this week ALEKS Obj. 2 (6.1-5) Due 11:59pm	No labs this week	2.2: Phase Changes (8.11-12; 9.4 (pdf in Canvas) P _{vap} ; Boiling (10.1-4) No labs this week
Week 4 (1/25)	2.3: Phase Diagrams (10.5-7)	Worksheet 4 Prelab 2 due	Quiz #2, Wed 1/27 L1.4-5, 2.1-3 Lab 2 ALEKS Obj. 3 (8.11-12, 10.4, 10.6) Due 11:59pm	Lab 2	2.4: Structure of Solids (6.9-13; MT 3 (pp. 223-225)) Lab 2
Week 5 (2/1)	2.5: Bonding in Solids; Semiconductors (7.1-5, 7.12-13)	Worksheet 5	3.1: Solubility (10.8-9); Thermo of Solutions (10.12-13) No labs this week ALEKS Obj. 4 (6.9, 6.13), Due 11:59pm	No labs this week	3.2: P and T Effects on Solubility (10.10-11); Molality (10.14) No labs this week
Week 6 (2/8)	3.3: Colligative Properties (10.15-16)	Worksheet 6 Prelab 3 due	Quiz #3, Wed 2/10 L2.3-5, 3.1-2 Lab 3 ALEKS Obj. 5 (9.4, 10.8-14) Due 11:59pm	Lab 3	3.4: Colligative Props. (10.17); P _{vap} of Binary Solns (10.18) Lab 3
Week 7 (2/15)	HOLIDAY	Worksheet 7	4.1: The d-block metals; Coordination complexes (17.1-6) No labs this week ALEKS Obj. 6 (10.15-17, 17.2-5) Due 11:59pm	No labs this week	4.2: Isomers (17.7) No labs this week
Week 8 (2/22)	4.3: Crystal Field; Spectrochem. Series; Magnetism (17.8-12)	Worksheet 8 Prelab 4 due	Quiz #4, Wed 2/24 L3.3-4; 4.1-2 Lab 4 ALEKS Obj. 7 (17.5-7), Due 11:59pm	Lab 4	4.3: Crystal Field; Spectrochem. Series; Magnetism (17.8-12) Lab 4
Week 9 (3/1)	5.1: Aliphatic Hydrocarbons (19.1-3, 7)	Worksheet 9 Prelab 5 due	5.1: Aliphatic Hydrocarbons (19.1-3, 7) Lab 5 ALEKS Obj. 8 (17.8-10, 19.1-2) 19.7, 20.1-20.5); Due 11:59pm	Lab 5	5.2: Organic Rxns (19.4-6, 8) Lab 5
Week 10 (3/8)	5.3: Functional Groups (20.1-8) and polymers (limited parts of 9-10, 13-15)	Worksheet 10 Prelab 6 due	Quiz #5, Wed 3/10 L4.3, 5.1-3 Lab 6 ALEKS Obj. 9 (20.1-20.5) Due 11:59pm; (no K.C. after)	Lab 6	End of Quarter Wrap-up Lab 6

Week 11 (3/15) 162A Final MONDAY, March 15th 8:30-10:20am (PDT, Pacific Daylight Time)***

Notes:

***LABS:** prelabs are due 11:30am on Tuesdays in Canvas; W/20 labs are W/Th/F depending on the registered section ; reports are due 11:55pm in Gradescope: for Labs 2, 5, & 6 on the day after lab, for Labs 3 & 4 are 1 week after lab

****ALEKS** deadlines are 11:59pm Wednesdays; last Knowledge Check of the quarter will be after Obj #8; ALEKS Pie Progress deadline is 11:59pm on Sun 3/14

*****PDT:** [Daylight Savings Time begins at 2:00am Sun 3/14](#). Please be sure your clocks/alarms are set so you are ready to take it at the correct time.