

REQUIRED TEXTBOOKS:

Text: "General, Organic, and Biochemistry" 7th edition, by Denniston, Topping, & Carot is sold at the UVM bookstore.

Lab Manuals: "Chemistry 26, Experiments" is sold at the first floor stockroom, A-143 Cook, for \$10.00. **This is not required for CHEM 28 students.**

LABORATORY:

Time and Room: See your class schedule for your specific Lab time and room.

TA: Will be announced at your first lab session.

Attendance: Students must attend the lab section they are assigned to. Official documentation of sickness or family crisis is required if a lab is missed. **If more than 2 labs are missed, this results in a failure for the course.** In order to take a lab at a time other than your assigned time one must obtain the permission of the TA and instructor.

Breakage Card: A breakage card (\$40.00) must be purchased from the first floor stockroom, A-143 Cook, prior to your first lab. The \$40.00 is refundable, and if you are careful you should get most of it back. Remember, you must have it with you to be admitted into lab.

Safety Eyewear: OSHA approved safety glasses or goggles must be worn by everyone once any experimentation has started in any area of a lab room. Safety eye wear can be purchased at the UVM bookstore.

Foot Wear: Only shoes that cover the toes are permitted in the lab. Sandals and open toed shoes are not permitted.

Lab Notebook: A bound notebook is required for recording lab data.

ACADEMIC INTEGRITY:

Offenses against the Code of Academic Integrity (ie: Cheating) are deemed serious and insult the integrity of the entire academic community. Any suspected violations of the code are taken very seriously and will be forwarded to the Center for Student Ethics & Standards for further investigation.

LABORATORY SCHEDULE

<u>Week of:</u>	<u>Experiment</u>	<u>Description</u>
31 Jan - 3 Feb	1 (pg. 15)	Molecular Models
7-10 Feb	2 (pg. 20)	Fractional Distillation of Wine
14-17 Feb	3 (pg. 23)	Isolation of Caffeine
21-24 Feb	NO LABS	(PRESIDENT'S DAY)
28 Feb - 3 Mar	4 (pg. 27)	Dehydration of 2-methyl-2-butanol
7-10 Mar	NO LABS	(SPRING BREAK)
14-17 Mar	5 (pg. 31)	TLC Analysis of Analgesics
21-24 Mar	6 (pg. 37)	Synthesis of Esters
28-31 Mar	7a (pg. 42) 7b (pg. 43)	Carbonyls (Tollen's Test) Carbohydrates (Benedict's Test)
4-7 Apr	8 (pg. 50)	Polymers
11-14 Apr	9 (pg. 54)	Isolation and Analysis of a Protein
18-21 Apr	10 (pg. 58)	Fats, Oils, & Soaps
25-28 Apr		CHECKOUT

TENTATIVE LECTURE SCHEDULE

<u>CHAPTER</u>	<u>SUGGESTED PROBLEMS</u>
10 (Saturated Hydrocarbons)	3,9,23,25,27,33,39,43,45,47,53,55,57,59,61,65,67,75,77,79,81,83,85,103,105
11 (Unsaturated Hydrocarbons: 11.1-11.6)	1,3,5,7,9,11,13,15,17,19,21,27,31,39,41,43,47,49,65,69,71,73,79,81,83,89,90,95,97
WED, 9 FEB	EXAM 1 6:15 – 8:15 PM
12 (Alcohols, Phenols, Thiols, & Ethers)	1,11,15,21,23,25,26,29,37,39,41,53,55,57,63,65,67,68,69,79,83,85,87,91
13 (Aldehydes & Ketones: 12.1-12.5, 12.8-12.9)	5,7,11,13,15,23,29,31,33,36,39,43,49,61,65,68,69,71,73,77,79,81,83,89,91,92
14 (Carboxylic Acids & Derivatives: 14.1-14.2)	5,7,15,17,19,31,33,34,35,39,43,47,51,53,54,55,65,67,73,75,77,79,83,85
15 (Amines & Amides: 15.1, 15.3)	5,7,19,21,23,27,29,33,37,47,51,53,55,57,61,63,67
WED, 16 MAR	EXAM 2 6:15 – 8:15 PM
16 (Carbohydrates)	3,5,23,25,27,29,35,46,47,53,57,59,61,64,65,69,71,82,87,88,89,90
17 (Lipids & their Function: All except 17.5)	11,13,21,23,24,25,43,44,49,57,58,61,62,67,69,75,77,95,99,100,103,104
18 (Protein Structure & Function)	1,2,3,5,6,7,23,25,33,37,38,39,43,45,48,53,54,55,56,59,63,65,73,75,77,91
WED, 6 APR	EXAM 3 6:15 – 8:15 PM
19 (Enzymes: 19.1-19.8, 19.11)	3,5,7,8,10,17,19,23,25,32,39,40,57,58,59,61,93,95,96,97
20 (Intro to Molecular Genetics: 20.1-20.6)	1,3,5,7,9,10,17,19,20,23,24,29,31,33,37,39,40,43,45,46,49,61,63,65,67,70
21 (Carbohydrate Metabolism: all except 21.5)	3,5,6,11,17,21,25,37,39,41,46,53,57,64,65,69,77,81,91,92,93
WED, 27 APR	EXAM 4 6:15 – 8:15 PM
22 (Aerobic Respiration: all except 22.5)	1,7,8,11,13,25,26,29,33,35,37,39,41,43,44,45,46,50,52,69,70,76,79,81,87,91
23 (Fatty Acid Metabolism:23.1-23.4)	1,3,4,19,23,26,33,36,41,43,49,57,58,61,68
	FINAL EXAM (Comprehensive)