Essentials of General, Organic, and Biochemistry Proposed Course Schedule

11/0	ok	Data	Tonic	Toxt Pooding
1		1/0	Introduction and Course Overview: Aleebale: structure and nemonalature	
		1/9	Important alashalar methanal, athanal, isanranyi alashal (IDA), giyasla	14.10
	1	1/10	Important alconois: methanoi, ethanoi, isopropyi alconoi (IPA), giycois	14.09
	<u>vv</u>	1/11	Properties and reactions of alconois	14.10-14.13
	F	1/13	Phenols, ethers, thiols	14.1421
2	М	1/16	Martin Luther King Day Holiday	
	Т	1/17	The carbonyl functional group: aldehydes and ketones	15.14
	W	1/18	Naming aldehydes and ketones; physical properties	15.58
	F	1/20	Chemical reactions of ketones and aldehydes	15.911
3	М	1/23	Carboxylic acids: structure, physical properties, acidity, salts	16.18
	т	1/24	Reactions of carboxylic acids: esters: structure and properties	16.9-12
	w	1/25	Chemical reactions of esters: polyesters	16 13- 16
	F	1/27	Sulfur analogs of esters, acid chlorides and anhydrides, inorganic esters	16 17- 20
4	M	1/27	Poviow for exam	14 15 16
-	т Т	1/01	First Hour Exam	14, 15, 10
	1	1/31		14, 15, 10
	vv	2/1	Review exam; Nitrogen atoms in organic compounds, amine structure	17.12
	F	2/3	Properties of amines, reactions with acids, alkylation, heterocyclic amines	17.39
5	М	2/6	Biologically important amines; alkaloids	17.1012
	Т	2/7	Amides: preparation reactions, properties, hydrolysis, caffeine, nicotine	17.1318
	W	2/8	Biochemistry: An Overview	18.16
	F	2/10	Carbohydrates; chirality, mono-, di-, oligo-, polysaccharides	18.714
6	М	2/13	Lipids: structure, properties of fatty acids, dietary considerations, reactions	19.15
-	т	2/14	Membranes: phospholipids, sphingolipids, cholesterol	19.610
	\\/	2/15	Waxes saponification fats steroids anti-inflammatory drugs	10 11- 15
		2/13	Proteine: amine poide, accortial amine poide, phirality and bace properties	20.1 5
7		2/17	Proteins, annu acius, essential annu acius, chiraity, aciu-base properties	20.15
		2/20	Presidents Holiday	00.0.40
	1	2/21	Peptides: Levels of protein structure	20.613
	W	2/22	Reactions of proteins: hydrolysis and denaturation, glycoproteins	20.14-20.19
	F	2/24	Proteins in hair, foods, drugs and disease	
8	М	2/27	Review for exam	
	Т	2/28	Second Hour Exam	17, 18, 19, 20
	W	3/1	Review exam; Introduction to enzymes	21.12
	F	3/3	Factors influencing enzyme activity	21.38
9	М	3/6	Spring Break	
-	т	3/7	Spring Break	
	w	3/8	Spring Break	
	5	2/10	Spring Broak	
10	M	3/13	Pagulation of anzyme activity, prescription drugs that affect anzymes	21.0-11
10	т	2/17	Vitamine: water soluble and fat soluble, their roles in enzyme-catalyzed, reaction	21.311
	1	3/14	Nucleis soluble and fat soluble, then foles in enzyme-catalyzed feacilor	21.1215
	VV	3/15	Nucleic acids: Introduction to structure, tunction	22.13
	F	3/17	DNA replication	22.4-22.6
11	M	3/20	RNA transcription, processing, translation, gentic code, mutations	22.710
	Т	3/21	Protein synthesis, ribosomal structure and drugs that affect translation	22.1112
	W	3/22	Recombinatnt DNA and genetic engineering; PCR reaction	22.1316
	F	3/24	Metabolism: extracting energy from foods, key molecules	23.16
12	М	3/27	Stages of Metabolism; mitochondrial reactions, TCA cycle, electron transport	23.78
	Т	3/28	Oxidative phorphorylation, ATP production	23.912
	W	3/29	Carbohydrate metabolism: digestion, absorption, glycolysis pathway	24.12
	F	3/31	ATP production, fates of pyruvate, anerobic fermentation of alcohol	24.34
13	М	4/3	Glycogen metabolism: review for exam	
	т	1/0	Linid metabolism: digestion and absorption	25.1-3
	1	4/5	Entry and avidation ATP viold katona badias & katonia	25.15
		4/5	Tauy add Unidalion, ATF yield, kelone Doules & Kelosis	20.40
4.4	F	4/7		21, 22, 23, 24
14	IVI	4/10	Lipogenesis, interdependence of carbohydrate and lipid metabolism	25.7-25.11
	Т	4/11	Protein Metabolism: digestion and absorption, transamination, deamination	26.1-26.3
	W	4/12	Urea cycle; amino acid carbon skeletons as energy sources	26.45
	F	4/14	Nitrogen waste, arginine and nitric oxide,	26.610
15	М	4/17	Overview of metabolism: inter-relationships of pathways and equilbrium	
	Т	4/18	Diet strategies, calorie counting	
	W	4/19	Root Review, in-class worksheet and synthesis	
	F	4/21	Review for Final Exam	
16	Т	4/25	Final Exam - 11:00-12:50pm (Tuesday - Lecture Room)	Comprehensive
10		7/20		Comprenensive