Chem 3322: Biochemistry Summer 2016 M,W,F 9:00-11:10 am, SSB 115

Instructors:	Joseph L. Johnson	Steven M. Berry		
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	once nours. By appointment	Office flours. By appointment		
Text:		hemistry: The Molecular Basis of Life, by McKee and McKee, 6 th Edition (Required)		
	Student Study Guide and Solutions Mai	nt Study Guide and Solutions Manual, McKee and McKee, Sehorn, McKee and McKee		
Website:	Moodle (<u>http://moodle.umn.edu</u>) or th	dle (<u>http://moodle.umn.edu</u>) or through UMD's "MyU" web portal (<u>https://www.myu.umn.edu</u>)		
TENTATIVE LECTURE AND EXAM SCHEDULE				
9-May	Introduction (Chap 1 & 2)	Introduction (Chap 1 & 2)		
11-May	Water (Chap 3) & Thermodyna	Water (Chap 3) & Thermodynamics (Chap 4)		
13-May	Amino acids and Proteins (Cha	Amino acids and Proteins (Chap 5)		
16-May	Amino acids and Proteins (Cha	Amino acids and Proteins (Chap 5)		
18-May	Enzymes (Chap 6)	Enzymes (Chap 6)		
20-May	EXAM #1 (Chap 1-6) / Carbohy	EXAM #1 (Chap 1-6) / Carbohydrates (Chap 7)		
23-May	Carbohydrates (Chap 7)	Carbohydrates (Chap 7)		
25-May	Carbohydrate Metabolism (Ch	Carbohydrate Metabolism (Chap 8)		
27-May	Carbohydrate Metabolism (Ch	Carbohydrate Metabolism (Chap 8)		
30-May	Memorial Day – NO CLASS	Memorial Day – NO CLASS		
1-Jun	Citric Acid Cycle (9)	Citric Acid Cycle (9)		
3-Jun	Electron Transport Chain & Ox	Electron Transport Chain & Oxidative Phosphorylation (Chap 10.1-10.2)		
6-Jun	EXAM #2 (Chap 7-10) / Lipids	EXAM #2 (Chap 7-10) / Lipids (Chap 11)		
8-Jun	Lipid Metabolism (Chap 12)	Lipid Metabolism (Chap 12)		
10-Jun	Photosynthesis (Chap 13)	Photosynthesis (Chap 13)		
13-Jun	Nitrogen Anabolism (Chap 14. (Chap 17)	Nitrogen Anabolism (Chap 14.1-14.2) / Nitrogen Catabolism (Chap 15.2) / Nucleic Acids (Chap 17)		
15-Jun	Genetic Information (Chap 18)	Genetic Information (Chap 18)		
17-Jun	Protein Synthesis (Chap 19)	Protein Synthesis (Chap 19)		
20 Jun	Exam #3 (Chap 11-15,17-19)			
22-Jun	FINAL EXAM 9-11 am (cumula	tive)		

Textbook Usage: We have provided you with a tentative list of the chapters to be covered in each lecture. We suggest that you read the appropriate portions of the textbook before each lecture. In depth reading of the chapters should occur after each lecture and reflect the relative weight of topics as presented in lecture. Recommended review problems are assigned.

Lecture Notes: Copies of the notes will be available on the course Moodle site. They may not contain all of the material covered in class. One reason for making the notes available is to enable students to spend less time copying notes and more time thinking about and internalizing the material, asking questions, and making connections. Students are responsible for bringing their own copy of the notes to class.

Grading: Final course grades will based on 3 exams and 1 cumulative final exam, each worth 100 points, as outlined.

Exam I	(Ch. 1-6)	100 pts
Exam II	(Ch. 7-10)	100 pts
Exam III	(Ch. 11-15, 17-19)	100 pts
Final Exam	(cumulative)	100 pts

Absences: Students are required to attend all lectures and exams on the scheduled days. If a lecture is missed, it is the student's responsibility to borrow the in-class notes from a friend. No make up exams will be given, except within 36 hours of the class exam and with a signed note from the proper authority (e.g., doctor, etc.). This summer course moves very quickly, and it is therefore strongly recommended that you do not miss class.

Access for Students with Disabilities: Individuals who have any disability, either permanent or temporary, which might affect their ability to perform in this class are encouraged to inform the instructor at the start of the semester. Adaptations of methods, materials or testing may be made as required to provide for equitable participation. This material is available in alternate formats to individuals with disabilities upon request. Please contact Penny Cragun at Disability Services and Resources (726-8727).