

How to Get an A in

BCH 3033 General Biochemistry - Syllabus *Welcome to the Beautiful Chemistry of Life*

Fall - 2016 Classes: MWF 2:00-2:50PM PG6-Rm 116

Instructor: [John Makemson](#) - Office (OE246/247) Hours: MTWThF 9-10AM) + and other times by appointment. **For questions, comments PLEASE send e-mail to makemson@fiu.edu or phone for an appointment: 305-348-3907**

TEXTBOOK: Meisfeld and McEvoy. BIOCHEMISTRY, Preliminary Edition. Special pricing: \$53.35/text. Most Biochem texts are around \$200 or more. If we did not get this deal, the text would cost at the FIU bookstore \$240. This semester the course relies upon the new text: it is well written and gets students into biochemistry in an integrated way. The end of chapter questions and problems are particularly well thought out.

This is a Flipped Class: in class there will be NO LECTURE. We will be DOING Biochemistry in class through end of chapter problems and case studies (from the published research literature). Each student needs to get an iClicker to respond to Clicker Questions. This is an important component of your grade (see below)

iClickers: iClickers are for sale in the bookstore; and you can get used ones. Your iClicker needs to be registered, so **make sure the iClicker ID number on the back of the instrument is readable**, during the first week of class you will need to register your iClicker through the iClicker website. The results of iClicker use as well as your Exam grades will be transferred to the course's Blackboard site. First week tests your clicker, this is a non graded week. See the last page about using more than your own (one) clicker/class.

PLEASE use the Textbook's End of Chapter Review Questions and Challenge Problems as well as practice exams (multiple choice and written) for each chapter. And, MOST IMPORTANTLY **test your knowledge with the book closed well before the Classes and Exams. Exams will be multiple choice questions of which some can include calculations.**

GRADING:

1. Exams: 5 Exams, 100 points each = 500 points.
2. Final Exam (ACS Biochem Exam) = 100 points.
3. iClicker answers in Class = 250+ points (likely to be more).

Total Possible Points = 850+ points.

MISSED CLASSES or EXAMS: missed classes or exams require a doctor's note or other official note explaining why you could not attend the class or exam. Make up exams will be given for valid written excuses. Make up classes (iClicker) will be done for valid written excuses in OE 246. Make-up exams (all written answer questions) or clicker questions must be done no later than 1 week after the class or exam. PLEASE read the end of this "How to Get an "A" about Secure Exams.

Please come to class with pencil and pad, calculator, and having read well the text.

See Blackboard about Practice Exams.

Tentative Schedule

Date	Chapter/Topics	Class Preparation: Do these well so that you can maximize your Clicker Question points. Know the review questions and do the Challenge Problems:
Aug		Challenge Problems to Practice Before Class
22 M	Intro to the Flipped Class+Ch 1	1, 2, 4, 5
24 W	Ch 1 Some Basics	6, 7, 8.
26 F	Ch 2 Energy, Water + Membranes	1-7
29 M	Ch 2 Begin Graded Clicker Questions	8,11-14
31 W	Ch3 DNA Structure + Function	1, 3-8
Sept		
2 F	Ch 3	9, 10, 12
5 M	Labor Day Holiday	
7 W	Ch 4 Protein Structure	1-7
9 F	Ch 4	8-11, 13, 14
12 M	EXAM 1 in GL-100	
14 W	Ch 5 Protein Chemistry Methods	1-4, 6
16 F	Ch 5	7
19 M	Ch 5	9
21 W	Ch 6 Protein Function	1-5,7,8
23 F	Ch 6	9-11, 13, 14
26 M	Ch 7 Enzymes	1-10, 11a,b,c.
28 W	Ch 7	12, 13
30 F	Ch 7	14, (15 optional)
Oct		
3 M	EXAM 2 in GL 100	
5 W	Ch 8 Cell Signaling Systems	1 -3, 4, 5, 8, 13
7 F	Ch 8	
10 M	Ch 9 Glycolysis	1, 3, 5, 6a, 7, 8, 10, 11, 13
12 W	Ch 9	
14 F	Ch 9, Ch 10 Citrate Cycle (TCA)	1 – 3, 4 a+b, 5, 12, 13
17 M	Ch 10	
19 W	Ch 11 Oxidative Phosphorylation	1, 2, 6, 8, 10, 11, 12(for fun).
21 F	Ch 11	

24 M	EXAM 3 in GL 100	
26 W	Ch 12 Photosynthesis	1, 3, 5, 6, 9, 10
28 F	Ch 13 Carbohydrate-Structure-Function	1, 2, 4, 5, 8
31 M	Ch 13	
Nov		
2 W	Ch 13 + Ch 14 Carbohydrate Metab	
4 F	Ch 14 Carbohydrate Metabolism	1-4, 6, 7, 9, 10
7 M	Ch 15 Lipid Structure + Function	1, 3, 4, 6 – 9a+c
9 W	Ch 15 +16 Lipid Metabolism	
11 F	VETERANS DAY = Holiday	
14 M	EXAM 4 in GL 100	
16 W	Ch 16 Lipid Metabolism	1, 3, 4, 6, 12, 14, 16
18 F	Ch 17 Amino Acid Metabolism	1-3, 5-7, 9, 12
21 M	Ch18 Nucleotide Metabolism	1-3, 5, 7, 8
23 W	Ch 18	
24-25	Ch 19 Metabolic Integration	1, 3, 6, 9, 11 – 16.
28 M	Exam 5 in GL 100	
30 W	Ch 19 Metabolic Integration	
Dec		
2	Catch Up	
Dec 7	FINAL EXAM in ? (ACS Biochemistry Core Exam) Noon to 2PM	

Practice Exams: Please see Blackboard for Practice Exams and Answer Keys

Secure EXAMS (1 through 5 and Final): Writing on the exams is not allowed. Writing on any exam results in a Zero score.

Exams will not be given in PG-6 Room 116. They will occur in larger lecture halls.

CHEATING: Cheating is clearly defined by the Student Handbook. With respect to Clickers, each student can use only their own (one) clicker / class session. Using clickers of other students who are not present in the class is CHEATING. Fifty (50) points will be deducted from both iClickers of Cheaters.