

# How to Get an A in

## BCH 3033 General Biochemistry - Syllabus

### *Welcome to the Chemistry of Life*

Spring - 2017 Classes: MWF 2:00-2:50PM PG6-Rm 116

Instructor: [John Makemson](#) - Office (OE246/247) Hours: MTWThF 9-11AM) + and other times by appointment. **For questions, comments PLEASE send e-mail to [makemson@fiu.edu](mailto:makemson@fiu.edu) or phone for an appointment: 305-348-3907**

**TEXTBOOK:** Meisfeld and McEvoy. BIOCHEMISTRY, Norton Pub.

**This is a Flipped Class:** in class there will be NO LECTURE in class. We will be DOING Biochemistry in class using end of chapter problems and case studies (from the 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. Do not buy an iClicker lacking a valid registration number. 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 iClicker points 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 = 300+ points (likely to be more).

Total Possible Points = 900+ 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 notebook, calculator, and having **STUDIED** the Narrated Power Points and 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:
<b>Jan</b>		<b>Challenge Problems + Stuff to Practice Before Class</b>
9 M	Intro to the Flipped Class+Ch 1	
11 W	Ch 1 Some Basics	1, 2, 4-8.
13 F	Ch 2 Energy, Water + Membranes	1-8, 11-14 pKa problem solving
16 M	<b>Martin Luther King Day</b>	
18 W	Ch 2	Thermodynamic Problem Solving
20 F	Ch 3 DNA Structure + Function	1, 3-10, 12 DNA structure, 1944 DNA Case Study
23 M	Ch3	Restriction Enzymes+DNA sequencing+Case Study
25 W	Ch 4 Protein Structure	1-11, 13, 14 Amino acid pKa's, Charges
27 F	Ch 4	ProteinStructure, ZZTop Calculation, Insulin Proteins
30 M	<b>EXAM 1 in SIPA 125</b>	
<b>Feb</b>		
1 W	Ch 5 Protein Chemistry Methods	1-4, 6, 7, 9 Note Change in Answers
3 F	Ch 5	
6 M	Ch 5	
8 W	Ch 6 Protein Function	1-5,7,8, 9-11, 13, 14 Note Change in Answers
10 F	Ch 6	
13 M	Ch 7 Enzymes	1-10, 11a-c, 12, 13, 14, 15(optional) Note Change in Answers
15 W	Ch 7	
17 F	Ch 7	
20 M	<b>EXAM 2 in SIPA 125</b>	
22 W	Ch 8 Cell Signaling Systems	1-5, 8, 13 Note Change of Answers
24 F	Ch 8	
27 M	Ch 9 Glycolysis	1, 3, 5, 6a, 7, 8, 10, 11, 13
<b>Mar</b>		
1 W	Ch 10 Citrate Cycle (TCA)	1-3, 4a+b, 5, 12, 13
3 F	Ch 10	
6 M	Ch 11 Oxidative Phosphorylation	1, 2, 6, 8, 10, 11, 12(for fun)
8 W	Ch 11	
10 F	<b>EXAM 3 in SIPA 125</b>	
13 - 17	<b>SPRING BREAK</b>	
20 M	Ch 12 Photosynthesis	1, 3, 5, 6, 9, 10
22 W	Ch 13 Carbohydrate Structure-Function	1, 2, 4, 5, 8
24 F	Ch 14 Carbohydrate Metabolism	1-4, 6, 7, 9, 10
27 M	Ch 14	
29 W	Ch 15 Lipid Structure + Function	1, 3, 4, 6-8, 9a+c
31 F	Ch 15	

<b>Apr</b>		
3 M	<b>EXAM 4 in SIPA 125</b>	
5 W	Ch 16 Lipid Metabolism	1, 3, 4, 6, 12, 14, 16
7 F	Ch 16	
10 M	Ch 17 Amino Acid Metabolism	1-3, 5-7, 9, 12
12 W	Ch 17	
14 F		
17 M	Ch18 Nucleotide Metabolism	1-3, 6, 9, 11-16
19 W	Ch 18	
21 F	<b>Exam 5 in SIPA 125</b>	
24-29	<b>Finals Week</b>	
Apr 26	<b>FINAL EXAM</b> (ACS Biochemistry Core Exam) <b>Noon to 2PM</b>	In SIPA 125

**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 are cumulative and will contain material from earlier parts of the course that is integrated into later parts of the course.**

**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 for other students who are not present in the class is CHEATING. Fifty (50) points will be deducted from both iClickers of Cheaters.**

**CLASSES/TABLES: all the classes are in PG6-Room 116 and require each student to have a scientific calculator containing normal math functions, exponents, log, ln, and trig functions (cos, sin, tan). Bookbags, purses, etc. are not allowed on the table top. Each student's pens-pencils, notebook, calculator and laptop or tablet are the ONLY things allowed on the table top.**