BIBC102 winter Quarter 2019

Metabolic Biochemistry

Instructor: Professor Yunde Zhao (y3zhao@ucsd.edu, 858-822-2670)

Lectures **MWF, 10:00 am to 10:50 pm, PRICE Theater**

Course website and discussion forum: http://ted.ucsd.edu. You use your UCSD e-mail username and password to login. For more info on login, see: https://ted.ucsd.edu/. If you are a concurrent enrollment (UCSD Extension) student, you must obtain a registration token from Extension's student services or the ACS Help Desk in order to login to the course website.

IAs will check the discussion board daily including weekends to answer your questions. The discussion board is probably the best place to get your questions addressed.

EXAMS:

There will be two midterm exams and one Final. The first Mid-term will worth 20%, the second mid-term will worth 30%, and the final will worth 50% of your grade. Neither your midterm scores nor your final exam score can be dropped (i.e. all three scores will be included in your final grade.

No calculator, cell phone, camera, or other electronic devices that are capable of storing information are allowed during the exams. Backpacks should be left in front of the classroom during the exam.

Each Midterm will be 50 minutes long and the final will be 3 hours long. There will be no make-ups for the Midterms. **If you do not take a midterm, you will be assigned a zero to the midterm unless you supply documents for medical or family emergency to the Professor**. If you miss one midterm for medical or family emergency, your other midterm will count for 50% of your grade and your Final will worth 50% of your grade. No one may take the Final Exam early. **The grades will be curved.**

The midterms will consist of short answer questions, multiple-choice, true/false, and other types of questions. The final exam will be all multiple-choice and will be graded by Scantron. Previous years' exams and answers are on the TED website. **The Final exam will be comprehensive (materials from every lecture will be covered).**

Clickers

You will need an i>clicker for this class. Clicker questions will be asked in class beginning Wednesday, **January 14** (a similar but not identical number of questions during each class period will be asked). Clicker performance **WILL NOT** count toward your grade, but 75% participation rate will earn you **2** bonus points.

Make sure that you have an i>clicker – other clicker brands will not work for this class. If you already have an i>clicker purchased for use in another class this quarter or in the past, you can

use it for this class also. i>clickers can be purchased from the UCSD Bookstore. You can also buy or borrow used i>clickers from other sources - just make sure it's an i>clicker!

You must register your i>clicker to use in this class by going https://ted.ucsd.edu/, clicking "Register your i>clicker" button and following prompts from there. The "Remote ID" is the serial number on the back of your clicker. **If you have a clicker with an illegible serial number, see Prof. Zhao after class or at office hours.**

YOUR GRADE

Your grade for the course will be based on the exams. Midterms count 50% of your grade and the final counts as 50%.

The overall points (100 points) will be used for statistic analysis and the grades will be curved. The average of the overall points will be a **solid B (not B minus)**. One standard deviation above the average is A. The range from average to one standard deviation below the average is C. For example, if the average is 68 points, standard deviation is 16, then 84 and above is A, 68 to 83 will be B, 52 to 67 will be C. Points below 52 will be D or F.

UCSD POLICY ON ACADEMIC INTEGRITY: All academic work will be done by the student to whom it is assigned without unauthorized aid of any kind.

Since clicker questions earn you bonus points, responding to them using another person's clicker will also be considered an act of academic dishonesty. **If the IAs see a student using more than one clicker, both clickers will be confiscated immediately for the remainder of the class period.**

Altering an exam and submitting it for a regrade will lead to an automatic F for the course. Some of the exams will be randomly selected and be photocopied prior to returning them to students. Any exam handed in for a regrade will be checked against the original.

Any student caught or suspected of cheating (including those found using two or more clickers in class) will be reported to the UCSD Academic Integrity Coordinator and the Dean of the student's college. Confirmed cases of cheating will result in the student receiving an F as their final grade and other disciplinary actions determined appropriate by the Academic Integrity Coordinator.

ADMINISTRATIVE QUESTIONS: See Biology Undergraduate Student Affairs Office, Pacific Hall, Room 1129 for adding/dropping a class, etc.

Text Book: No textbook is required. **Exams will be based on lectures and assigned readings only.**

Date	Lecture	Topic
January 7, Monday	1	Course information
January 9, Wednesday	2	Bioenergetics and metabolic concepts
January 11, Friday	3	Bioenergetics and metabolic concepts
January 14, Monday		Proteins
January 16, Wednesday	4	Enzyme kinetics
January 18, Friday	5	Enzyme kinetics
January 21, Monday	**6**	**MLK day, no class**
January 23, Wednesday	7	Glycolysis
January 25, Friday	8	Glycolysis
January 28, Monday		**Midterm I**
January 30, Wednesday	9	Glycolysis regulation
February 1, Friday	10	Glycolysis regulation
February 4, Monday	11	Pentose phosphate pathway
February 6, Wednesday	12	Krebs cycle
February8, Friday	13	Krebs cycle
February 11, Monday	14	Oxidative phospholylation
February 13, Wednesday	15	Oxidative phospholylation
February 15, Friday	16	Oxidative phospholylation
February 18, Monday		**President' day, no class**
February 20, Wednesday	17	Oxidative phospholylation
February 22, Friday	18	Gluconeogenesis
February 25, Monday		**Midterm 2**
February 27, Wednesday	19	Glycogen
March 1, Friday	20	Photosynthesis
March 4, Monday	21	Photosynthesis
March 6, Wednesday	22	Lipids
March 8, Friday	23	Lipids
March 11, Monday	24	Amino Acids
March 13, Wednesday	25	Nucleotides
March 15, Friday	26	Integration and regulation of metabolism
March 22, Friday	**Final exam**	