

Chemistry 3332**Biochemistry II: Dynam. & Bioenerg.****Instructor:** Chu-Young Kim**Phone:** 747-6935**Office:** CCSB 2.0106**Email:** ckim7@utep.edu**Class meets:** TR 7:30-8:50AM
Physical Science Building 115**Office Hours:** Wednesdays 8:00-10:00AM, CCSB 2.0106
(or by e-mail appointment)

Scope: The course will focus on metabolism of sugars, amino acids, lipids, and nucleotides. We will also examine several selected topics in contemporary biochemistry.

Class Meetings: Please see schedule of classes on the next page.

Textbook: Lehninger *Principles of Biochemistry* (6th or 7th Edition); Nelson and Cox; W. H. Freeman and Company, New York

Course Grading: There will be four written exams. Exams are closed-book. Cheat-sheets are not allowed. Each exam will make up **25%** of your final letter grade for the course. Exams are designed to test your biochemistry knowledge as well as your ability to apply that knowledge. Exams will cover lecture material and assigned articles. Please visit my office during office hours to review an exam after it has been given and check for adding/grading errors. Suspected cases or acts of alleged scholastic dishonesty will be automatically referred to the Dean of Students' Office.

If you miss an exam, due to illness, you are required to provide a doctor's note and take a verbal make up exam within three business days of the original exam date. Otherwise, you will receive a zero for the missed exam. Please e-mail me to make an appointment for the verbal exam.

Typically, a student with an overall score of 90-100 will receive a letter grade of **A**, 80-89 will receive a **B**, 70-79 will receive a **C**, 60-69 will receive a **D**, and 0-59 will receive an **F**. However, cutoff marks may be changed at the discretion of the instructor if deemed necessary. All requests for reports or extra work will be rejected as this is not fair to others in the class and doesn't accurately reflect your performance in the course.

Exam rules:

- If you arrive late and if someone has already turned in their exam, then you will not be allowed to take the exam. In other words, once someone turns in an exam, no one else can start on an exam.
- Remove baseball caps and all hats
- Listening to music is not allowed! Remove all headphones or ear-buds and put them away.
- Go to the restroom before exam. If you must use the restroom, you will be asked to empty your pockets (leave phone behind) and you will be escorted to and from the restroom by a TA.
- No talking (obviously).
- No sharing of pencils, pens, erasers, calculators. You are to share **nothing** during an exam.
- **No cell phone use during exams.** Phones must be put away in pocket or backpack.
- No talking or joking during an exam.
- Try not to disrupt those around you after you finish an exam.
- No looking around at exams of others sitting near you. People with wondering eyes will be asked to move to another seat.
- All belongings (especially electronics) must be on the floor and put away out of sight.

Withdrawal Policy: The last day for you to withdraw from any course with an automatic "W" is **November 2, 2018**. Please note that it is the student's responsibility to officially withdraw from a course before the drop deadline. College of Science will not approve any student- or faculty-initiated drop requests after that date, except under circumstances of complete withdrawal of all courses due to medical or non-medical reasons.

Disability: If you have or suspect a disability and need accommodations you should contact Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or visit Room 106 Union East Building.

Schedule of classes (tentative)

We may end up going slower or faster depending on how the class is doing.

08/28, Tuesday	Introduction
08/30, Thursday	Chapter 14 – Glycolysis, Gluconeogenesis, Pentose Phosphate Pathway
09/04, Tuesday	Chapter 14 – Glycolysis, Gluconeogenesis, Pentose Phosphate Pathway
09/06, Thursday	Review session
09/11, Tuesday	Chapter 16 – The Citric Acid Cycle
09/13, Thursday	Chapter 16 – The Citric Acid Cycle
09/18, Tuesday	Review session
09/20, Thursday	Exam 1 (Ch.14, Ch.16, article 1, article 2)
09/25, Tuesday	Chapter 17 – Fatty Acid Catabolism
09/27, Thursday	Chapter 17 – Fatty Acid Catabolism
10/02, Tuesday	Review session
10/04, Thursday	Chapter 18 – Amino Acid Oxidation and Production of Urea
10/09, Tuesday	Chapter 18 – Amino Acid Oxidation and Production of Urea
10/11, Thursday	Review session
10/16, Tuesday	Exam 2 (Ch.17, Ch.18, article 3, article 4)
10/18, Thursday	Chapter 19 – Oxidative Phosphorylation
10/23, Tuesday	Chapter 19 – Oxidative Phosphorylation
10/25, Thursday	Review session
10/30, Tuesday	Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria
11/01, Thursday	Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria
11/06, Tuesday	Review session
11/08, Thursday	Exam 3 (Ch.19, Ch.20, article 5, article 6)
11/13, Tuesday	Chapter 21 – Lipid Biosynthesis
11/15, Thursday	Chapter 21 – Lipid Biosynthesis
11/20, Tuesday	Review session
11/22, Thursday	Thanksgiving Holiday
11/27, Tuesday	Chapter 22 – Biosynthesis of Amino Acids and Nucleotides
11/29, Thursday	Chapter 22 – Biosynthesis of Amino Acids and Nucleotides
12/04, Tuesday	Review session
12/06, Thursday	Exam 4 (Ch.21, Ch.22, article 7, article 8)

There is no final exam.