

**Chemistry 3332****Biochemistry II: Dynam. & Bioenerg.****Instructor:** Chu-Young Kim**Phone:** 747-6935**Office:** CCSB 2.0106**Email:** [ckim7@utep.edu](mailto:ckim7@utep.edu)**Class meets:** TR 7:30-8:50AM,  
College of Business Admin 323**Office Hours:** Wednesdays 7:30-8:50AM, CCSB 2.0106  
(or by individual e-mail appointment)**Scope:** The course will focus on metabolism of sugars, amino acids, lipids, and nucleotides.**Textbook:** Lehninger *Principles of Biochemistry* (7<sup>th</sup> Edition); Nelson and Cox; W. H. Freeman and Company. (Earlier editions are ok. The textbook is recommended but not required.)**Course Grading:** There will be a total of 28 quizzes. The quiz will be administered at the beginning of each class session and it will test your knowledge of the material presented in the immediate previous lecture. Each quiz will consist of five short answer questions. Your course grade will be calculated by averaging your 25 highest quiz scores. (Your three lowest scores will be dropped.) There is no midterm exam or final exam.

**Regarding make-up quizzes:** If you miss three quizzes or less, you do not need to provide me with any formal excuses since I will automatically drop your three lowest quiz scores. If you miss more than three quizzes, you need to provide me with an equivalent number of legitimate excuses – medical, UTEP sponsored event, military duty, etc. For example, if you miss four quizzes in total, then you need to provide me with four letters from your doctor or similar documents that prove your four legitimate absences. In this case, I will allow you to take one make-up quiz.

Quiz rules:

- If you arrive late, then you will not be allowed to take the quiz.
- Listening to music is not allowed! Remove all headphones or ear-buds and put them away.
- No talking (obviously).
- No sharing of pencils, erasers, etc. You are to share **nothing** during a quiz.
- **No cell phone use during quizzes.** Phones must be put away in pocket or backpack.
- No looking around at others sitting near you. People with wondering eyes will be asked to move to another seat.

All suspected cases or acts of alleged scholastic dishonesty (**CHEATING**) will be referred to the Dean of Students' Office.

Typically, a student with a total 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, these cutoff marks may be adjusted 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.

**Withdrawal Policy:** The last day for you to withdraw from any course with a "W" is listed in the official university calendar. Please note that it is the student's responsibility to officially withdraw from a course before the drop deadline. No student will be administratively dropped after the deadline due to poor performance and bad grades.**Class Attendance:** Class attendance is required. If you must miss a class, you need to make a special effort to learn what occurred during your absence from your peers.**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](mailto:dss@utep.edu) or visit Room 106 Union East Building.

### Schedule of classes

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

| Date            | Lecture   | Assessment |
|-----------------|---|------------|
| 8/27, Tuesday   | Chapter 14 – Glycolysis, Gluconeogenesis, Pentose Phosphate Pathway         | -          |
| 8/29, Thursday  | Chapter 14 – Glycolysis, Gluconeogenesis, Pentose Phosphate Pathway         | Quiz 01    |
| 9/03, Tuesday   | Chapter 14 – Glycolysis, Gluconeogenesis, Pentose Phosphate Pathway         | Quiz 02    |
| 9/05, Thursday  | Chapter 16 – The Citric Acid Cycle  | Quiz 03    |
| 9/10, Tuesday   | Chapter 16 – The Citric Acid Cycle  | Quiz 04    |
| 9/12, Thursday  | Chapter 16 – The Citric Acid Cycle  | Quiz 05    |
| 9/17, Tuesday   | Chapter 17 – Fatty Acid Catabolism  | Quiz 06    |
| 9/19, Thursday  | Chapter 17 – Fatty Acid Catabolism  | Quiz 07    |
| 9/24, Tuesday   | Chapter 17 – Fatty Acid Catabolism  | Quiz 08    |
| 9/26, Thursday  | Chapter 18 – Amino Acid Oxidation and Production of Urea                    | Quiz 09    |
| 10/01, Tuesday  | Chapter 18 – Amino Acid Oxidation and Production of Urea                    | Quiz 10    |
| 10/03, Thursday | Chapter 18 – Amino Acid Oxidation and Production of Urea                    | Quiz 11    |
| 10/08, Tuesday  | Chapter 19 – Oxidative Phosphorylation                                      | Quiz 12    |
| 10/10, Thursday | Chapter 19 – Oxidative Phosphorylation                                      | Quiz 13    |
| 10/15, Tuesday  | Chapter 19 – Oxidative Phosphorylation                                      | Quiz 14    |
| 10/17, Thursday | Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria                 | Quiz 15    |
| 10/22, Tuesday  | Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria                 | Quiz 16    |
| 10/24, Thursday | Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria                 | Quiz 17    |
| 10/29, Tuesday  | Chapter 20 – Carbohydrate Biosynthesis in Plants & Bacteria                 | Quiz 18    |
| 10/31, Thursday | Chapter 21 – Lipid Biosynthesis   | Quiz 19    |
| 11/05, Tuesday  | Chapter 21 – Lipid Biosynthesis   | Quiz 20    |
| 11/07, Thursday | Chapter 21 – Lipid Biosynthesis   | Quiz 21    |
| 11/12, Tuesday  | Chapter 22 – Biosynthesis of Amino Acids and Nucleotides                    | Quiz 22    |
| 11/14, Thursday | Chapter 22 – Biosynthesis of Amino Acids and Nucleotides                    | Quiz 23    |
| 11/19, Tuesday  | Chapter 22 – Biosynthesis of Amino Acids and Nucleotides                    | Quiz 24    |
| 11/21, Thursday | Contemporary topics in biochemistry (This material is not in the textbook.) | Quiz 25    |
| 11/26, Tuesday  | Contemporary topics in biochemistry (This material is not in the textbook.) | Quiz 26    |
| 11/28, Thursday | No class – Thanksgiving Holiday   | -          |
| 12/03, Tuesday  | Contemporary topics in biochemistry (This material is not in the textbook.) | Quiz 27    |
| 12/05, Thursday | -   | Quiz 28    |

There is no midterm or final exam.