Chemistry/Biology 446: Biochemistry I  
Spring 2009 MWF, 9:10-10:05 AM, TCNW Room 301

Instructor: Dr. Kevin Williams  
TCNW 329 (alternate office: TCCW 413)  
Phone: 745-8899 (TCNW 329 office only)  
Office Hours: 8:30-9:00 and 10:15-11:30 AM MWF (TCNW 329), 12:30-1:30 M (TCNW 329, may be in TCNW 337), 10:15-11:30 TR (TCCW 413)  
e-mail: kevin.williams@wku.edu  
Web page: http://www.wku.edu/~kevin.williams  
Blackboard web site: http://ecourses.wku.edu

Prerequisite: CHEM 314 (Intro. Organic) or CHEM 340 (Organic I)


Course Coverage: The course will cover chapters 1-4, 7-13, and 15-18 in the text. Students are expected to read the chapters in addition to attending the lectures.

Objective: This course will utilize basic principles of chemistry to promote an understanding of biological systems on the molecular level. After completing the course, the student will have a thorough understanding of structure/function relationships of proteins and enzymes, DNA, carbohydrates, and lipids as well as an overview of three key metabolic pathways. Students will develop general critical thinking and problem solving skills.

Attendance: You are expected to attend class regularly. You must be present and on time for tests or have a valid and documented excuse (e.g. death in the family, personal illness, school sponsored activity); persons who are going to miss a test must contact Dr. Williams prior to the test to confirm that the absence is acceptable and schedule a prompt make-up test date and time. If you fail to do this, the professor is under NO obligation to give a make-up test. A student cannot delay a test to a later date simply because of tests or assignments in other classes.

Blackboard: Supplemental materials of interest to this class are available via the Blackboard website at WKU (http://ecourses.wku.edu). By registering for this course, you have obtained access to the course information available on Blackboard. Your login and password for Blackboard should be the same as your login and password for e-mail. Blackboard can be accessed from any computer (on or off campus) with internet access. For computer lab locations and hours, see the InfoTech web site.

Information available on Blackboard includes but is not limited to: objectives for each chapter, video tutorials of selected topics, selected old tests, suggested homework problems, and a link to the textbook web site.
Tests and Exams: A total of four 100-point tests and a 100-point comprehensive final exam will be given. The four tests will be given during normal class time. Handheld computers, PDA’s, cell phones and other devices with programmable functions are not allowed to be accessed during testing periods and will preferably be kept out of the room.

Test 1: Monday, February 16th
Test 2: Friday, March 20th
Test 3: Wednesday, April 15th
Test 4: Wednesday, May 6th
Final Exam: Thursday, May 14th, 8:00 AM-10:00 AM

Graduate Students: Students taking the course for graduate credit (Chem/Biol 446G) must also submit a 5-10 page paper that reviews and critiques a recent journal article (cannot be a review article) from the biochemical literature. The journal article needs to be chosen by the student and approved by Dr. Williams by April 1st. The final copy will be due at or before the time of the final exam; students are welcome to submit a draft for review prior to turning in the final copy.

Honors Section: Students taking the honors section of the course will have a unique interdisciplinary group project that will be completed to receive honors credit. This project will be discussed with the honors students early in the semester.

Grading: Your final grade will be calculated by two methods, and the HIGHER of the two calculations will be your final grade

Method 1:
4 tests @ 100 pts. each 400
Final exam @ 100 pts. 100
500

Method 2:
3 best tests @ 100 pts. each 300
½ of lowest test score 50
1.5 x final exam score 150
500

90-100% (450-500 pts.) A
80-90% (400-449) B
70-80% (350-399) C
60-70% (300-349) D
Under 60% (<300) F

Attendance of seminars in the biology or chemistry departments will be worth two bonus points per seminar. Alternatively, students can write a short (1 page) paper on topics relevant to the class that are chosen by Dr. Williams. These papers can be worth up to 5 points of bonus credit each. [Note: These papers must be your own work; if you plagiarize another source, it will be academic dishonesty (see below).] There is a
maximum of ten bonus points possible, regardless of which method (or combination thereof) is selected. *No extra credit assignments other than these will be allowed.*

**Academic Dishonesty:** “Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected or a failing grade in the course without possibility of withdrawal. The faculty member may also present the case to the Office of the Dean of Student Life for disciplinary sanctions.” –from the Undergraduate Catalog

**University Deadlines:**

- Drop/add: February 2\(^{nd}\)
- Withdrawal: March 20\(^{th}\)

**Students with disabilities:** In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is 270 745 5004.

Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.