INTRODUCTION TO ORGANIC AND BIOCHEMISTRY

CHE 123, Sections A and B SYLLABUS – Spring, 2009

Credit: Four semester hours

Instructor: Dr. Jerry Cannon

Office: MCC 415
Office Phone: 601-925-3425
E-Mail: cannon@mc.edu
Fax: 601-925-3933

Office Hours: MWF 1:00-4:00 PM, TR 10:00-12:00 AM

Text: <u>Introduction to General, Organic and Biochemistry</u>, 8th Edition,

2007, Bettelheim and March. This course begins with chapter 10 of the text.

Schedule: Section A: Tuesday and Thursday, 8:00-9:15 AM and Wednesday 8:00-8:50 AM

Section B: Tuesday and Thursday, 1:30-3:10 PM

Location: Section A: MCC 402

Section B: Hederman 306

Review Sessions for Both Sections: Monday and Friday, 8:00-8:50 AM, MCC 402

Prerequisite: CHE 141 or CHE 122

Disclaimer: Although I expect to conduct the course according to the following, I reserve the right to make modifications if circumstances dictate.

Course Description: Basic concepts of organic and biochemistry. Topics are those especially important for health-related majors. Studies and examples are given that illustrate the relevance of chemical concepts to medical applications.

Rationale: The study of all health-related majors requires some understanding of the functioning of the body on a molecular level.

Student Objectives: The objectives of this course are to provide the students with the necessary knowledge and experience to be able to:

- 1. recognize and name major classes of organic compounds.
- 2. describe the major chemical and physical properties of the major classes of organic compounds.
- 3. recognize and describe the structural features and characteristics of the major classes of biochemicals.
- 4. understand the major metabolic pathways of carbohydrate and lipid catabolism and protein anabolism.
- 5. understand the functions of the major vitamins, minerals, and hormones.
- 6. gain an appreciation of the molecular bases of pharmacology and other areas of medicine.

Attendance: Your attendance at all class meetings is expected. If a regular class meeting is missed, it is the student's responsibility to obtain any assignments or instructions that were given by the instructor. Attendance will be taken at the beginning of each class period. If you arrive after this time, you must come by after class to change from being marked absent to late. Being late for class three times will count as one absence. One point will be deducted from the final average for each absence after the first four. Missing a class is not an excuse for not preparing for the next class meeting or not having assignments ready on time or being prepared for a quiz. Make-up exams are given only for excused absences and must be completed before the graded tests are returned. There is no makeup for a missed quiz.

A grade of F is received immediately upon receiving 12 absences in Section A (morning section) or 8 absences in Section B (afternoon section), whether excused or unexcused. See the 2008-2009 Mississippi College Undergraduate Catalog, page 56.

Academic Integrity: Mississippi College students are expected to be completely honest in all aspects of the course. Dishonesty, such as cheating or plagiarism, will be regarded as a serious offense and will be dealt with according to the stated policies of the university. Cheating on an exam or quiz will result in a grade of zero for that exam or quiz. See page 60 of the 2008-2009 Mississippi College Undergraduate Catalog, the Tomahawk, and Policy 2.19

Methods of Instruction: Class will consist primarily of lecture and problem working. The text will be followed as far as the general topics, but current material, especially relating to medical aspects, will be added from other sources. Unless specifically deleted, all portions of the chapters covered will be included on the examinations.

Required Practices: Students are expected to read the assigned material to be covered in class prior to coming to class and be prepared each day to have a quiz on the reading assignment and/or the material covered in the preceding lecture. The reading assignment is always the next six pages in the text.

Examinations: There will be four one-hour examinations, each counting 100 points and covering approximately three weeks of material. Ten-point quizzes will be given throughout the semester, one of which may be dropped. These quizzes may be scheduled or unscheduled. **If a student misses one of these quizzes for any reason, that quiz is automatically their drop grade.** These quizzes will be based on the previous day's material and/or the reading assignment and cannot be made up. The final examination will be comprehensive and will count 200 points. The final grade will be based on the percent of the total points obtained.

Grading Scale: 90-100% A 80-89% B 70-79% C 60-69% D 0-59% F

THE LAST DAY TO DROP A COURSE IS March 27, 2009

Final Examination

Section A: 8:00 AM, Tuesday, May 5, 2009 Section B: 11:00 AM, Tuesday, May 5, 2009