

Syllabus

**Biochemistry: Macromolecules**  
**CHE 418 / CHE 5418**

**Instructor Information:**

Name: J. Clinton Bailey II, Ph.D.  
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Web Site: <http://www.mc.edu/campus/users/bailey/>  
Current Office Hours: <http://www.mc.edu/campus/users/bailey/Officehours.html>

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**Period / Location:** Lecture: Tuesday and Thursday, 9:25 - 10:40 a.m.; Math, Computer, Chemistry Building 402

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**Catalog Description:**

**Prerequisite:** CHE 304 and BIO 112 or instructors consent. Lecture three hours a week

**Credit:** 3 Semester Hours.

This lecture course explores the structure and functions of biological molecules. Additional topics include the biological synthesis of proteins and nucleic acids.

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**Rationale:** This course is intended for students preparing to further their education in a professional (Medicine, Dentistry, Nursing, Physical Therapy, Graduate) school or pursue a career in science education. Biochemistry furthers the Mission of Mississippi College (See [Mississippi College Mission Statement](#)) by “stimulating the intellectual development of its students through the liberal arts and sciences” and prepares students for professional study in “specialized fields, including pre-professional and professional programs.” Biochemistry, as a component of the chemistry curriculum, prepares students “to utilize their skills, talents and abilities as they pursue meaningful careers, life-long learning, and service to God and others” as chemist, physicians, dentist, environmentalist, educators, and other areas.

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**Learning Objectives, Lecture/Exam Schedule, and Laboratory Schedule are located at:**

<http://www.mc.edu/campus/users/bailey/CHE418Page.html> Biochemistry lab is not being offered during the fall 2008 semester.

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**Methods of Instruction:** This course will follow a lecture/ discussion format. Students should prepare for class by completing the assignments listed on the Lecture / Exam Schedule and completing assigned problem sets. Students will find it helpful to bring their textbook to class.

**Textbook (Required):** Jeremy M. Berg, John L. Tymoczko, and Lubert Stryer, Biochemistry, 2007, Sixth Edition, W.H. Freeman. ISBN: 0-7167-8724-5; ISBN-13: 978-0-716-78724-2. Each student is expected to complete the reading assignment listed in the syllabus prior to attending class.

**Power point Lectures:** A copy of each lecture is available through the links on the Lecture and Exam Schedule:

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**Attendance:** Class attendance is expected. The instructor will follow the established University attendance policy as described in 2008 – 2009 Undergraduate Catalog (<http://www.mc.edu/publications/2008UnderGradCatalog/2008-2009UnderGrad.pdf>) pp. 56-57.

**Absence from Class:** If you are absent from class or laboratory, it is your responsibility to obtain missed notes / assignments from another student.

**Absence from a quiz:** A student that is absent from a quiz will receive a grade of zero for that quiz. Make up quizzes will NOT be administered even for excused absences.

**Absence from an exam:** Attendance for every exam is mandatory. A student that is absent from an exam will receive a grade of zero for that exam. Make up exams may be administered at the professor's discretion.

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**Academic Honesty:** You, as a student at Mississippi College and member of a larger academic community, are expected to be honest. The instructor will not tolerate participation in cheating or plagiarism and will deal harshly with suspected acts of either. The University policy on Academic Honesty (Policy 2.19) as explained in the current edition of the Student Handbook, pp. 41 - 43, <http://www.mc.edu/publications/handbook/academic.pdf> will be followed.

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**Class Disruption:** In the interest of providing everyone an environment conducive to learning, please refrain from disrupting class. Students that disrupt class may be asked to leave the classroom and may receive a zero for that day's assignment. Tardiness and noise from a cell phone or pager are two commonly encountered disruptions that are easy to avoid.

**Tardiness:** Be on time, class begins at 9:25 a.m.

**Cell Phone and Pager:** Please silence your cell phone or pager during the class period.

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**Evaluation:** Student progress in mastering course requirements in the lecture component of this course is measured by three unit exams, a daily participation grade and a comprehensive final exam, as described below.

**Success:** The key to success in this course is consistent, methodical study beginning the first week of class. Study each day as if the test is tomorrow.

**Exam Format:** Exams may contain multiple choice, matching, fill in the blank, true or false, short answer, or discussion type questions.

**Daily Participation Grade:** One hundred points may be earned through class participation. This may include making a significant contribution to class discussions, working and explaining problems during class, or announced or "pop" quizzes.

**Make-up Exam:** Make-up exams will NOT be given except in extreme circumstances. (e.g. death or hospitalization of an immediate family member, or your hospitalization). Students involved in university-sanctioned activities (e.g. athletics, choir, etc.) must arrange to take the exam PRIOR to the regular exam date, and before leaving for the event. Administration of a make-up exam is at the discretion of the instructor.

**Electronic devices:** Use or possession of an unauthorized electronic device (computer, cell phone, calculator, P.D.A., Blackberry, etc.) during an exam or quiz will be considered cheating. During an exam, please securely store your electronic devices in a zipped pocket of a book bag or purse.

**Grading:** A student's final grade is a reflection of performance on three exams (100 pts each), daily participation (100 pts), and a comprehensive final exam (200 pts.) or 600 total points.

**Scale:** A student's letter grade is based on the total points earned during the semester (see below).

A = 600 - 540 total points

B = 539 - 480 total points

C = 479 - 420 total points

D = 419 - 360 total points

F = 359 - 0 total points

**Extra credit** is NOT offered in this course.

**Distribution of Final Grade:** Since a student's grade is available on Banner Web soon after the semester ends, course grades will NOT be posted or distributed. Email inquires concerning grades should originate from your M.C. email account.

## **ADDITIONAL REQUIREMENTS FOR GRADUATE**

**STUDENTS:** In addition to completing the requirements listed above, students registered for CHE 5418 are required to make a 12 – 15 minute presentation on the mechanism of action of a prescription medication. Please speak to Dr. Bailey to determine a suitable topic.

In addition to the grading scale listed about, the professor reserves the right to utilize the letter grades of B+ and C+ as intermediate grades, as described in the 2008 – 2009 Graduate Catalog..

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**Special Accommodations:** If you need special accommodations due to learning, physical, psychological or other disabilities, please contact Dr. Buddy Wagner in the Counseling and Career Development Center Lowery Hall, Room 118. Also, he

may be reached by telephone at (601) 925-3354, by mail at P.O. Box 4063, Clinton MS 39058, or email at wagner@mc.edu.

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The instructor reserves the right to change this syllabus at any time during the semester.  
Last updated on 26 August 2008.