Math 1230 **CALCULUS II** Fall 2009

Instructor: Steve Mackey **Class**: MTRF 1:00−1:50pm, Rood 3307

Office: 6602 Everett, 387-4539

Office Hours: MT 4−5pm, W 12−1:30pm, R (in Rood 2209) 5−6pm. You may also see me at other times by arrangement.

Text: J. Hass, M.D. Weir & G.B. Thomas, *University Calculus Elements with Early Transcendentals*, Custom Edition for WMU, 2009, Pearson Custom Publishing.

Calculator: A graphing calculator is required for this course. A TI-89 or equivalent is recommended.

Syllabus: Techniques and applications of integration from selected sections of chapters 4, 5, and 6, infinite sequences and series in chapter 7, and basic notions of differential equations in chapter 15.

Prerequisite: Completion of Math 1220 or Math 1700 with a grade of C or better.

Homework: Homework will be assigned, but not collected. It is *essential* to do the homework problems regularly. Working together in study groups is highly recommended.

Exams, Quizzes and Grading: There will be eight or nine quizzes (held roughly weekly), and three in-class midterm examinations. In addition, a comprehensive final exam will be held on Thurs 17 Dec (2:45−4:45pm) during Finals Week. A *tentative* schedule for the in-class midterm exams is:

Exam 1: 2 Oct Exam 2: 30 Oct Exam 3: 1 Dec

Makeup exams will be permitted only in those cases when a student documents a genuine medical or personal emergency. The lowest quiz score will be dropped, and so no make-up quizzes will be given for any reason.

Quizzes 25% Exams (3@15 each) 45% Final Exam 30%

Your grade will be determined by the scale:

A	92 – 100	B	80 – 85	C	68 – 74	D	56 – 62
BA	86 – 91	CB	75 – 79	DC	63 – 67	E	≤ 55

A grade of Incomplete will be given only if you have completed most of the course work with a satisfactory grade, and circumstances beyond your control prevent you from completing the remainder of the course. Incompletes will not be given in case of a low or failing grade.

Basic Skills Test: The purpose of this test is to ensure that students entering Calculus II are adequately prepared in the basic skills of calculating derivatives and antiderivatives. (Note that this is just one, albeit fundamental, aspect of the knowledge students should retain from Calculus I.) Students will be allowed three attempts to pass this test; the first will be in class on Fri 11 Sept. Retakes will be administered outside of class; details to be announced later. To pass this exam students will need to get 9 out of 12 problems *completely* correct. Those not passing the Basic Skills Test after three attempts will have their final grade lowered by half a letter grade. Further information and sample practice tests can be

found by going to `http://www.wmich.edu/math/CourseWebpages.htm` and selecting "Calculus II Basic Skills Exam".

Some Important Dates:

Last day to withdraw: Mon 9 Nov

Thanksgiving Recess: begins at noon, Wed 25 Nov

Academic Integrity: You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate Catalog that pertain to Academic Integrity. These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse. If there is reason to believe you have been involved in academic dishonesty, you will be referred to the Office of Student Conduct. You will be given the opportunity to review the charge(s). If you believe you are not responsible, you will have the opportunity for a hearing. You should consult with me if you are uncertain about an issue of academic honesty prior to the submission of an assignment or test. Violations of the academic honesty policies can result in failing grades for the assignment and the course. Additional penalties can be imposed by the University.

Staying on Course

1. You cannot expect to learn everything in the classroom. You must be willing to put in two to three hours outside the classroom for each hour of class.
2. Do the homework exercises regularly. Maintain a separate notebook of solutions.
3. Watching your professor solve a problem is very, very different from being able to solve it yourself (especially on an exam). There is no substitute for practice.
4. Writing is important. Your solutions must contain complete sentences and reasoning, whether the problem asks for this explicitly or not. Writing sentences forces you to organize your ideas.
5. The instructor's job is primarily to provide a framework, with *some* of the particulars, and to serve as your guide in your quest for understanding. Lecture time is at a premium; do not expect everything to be covered in class. You will be responsible for studying all the topics in the syllabus.
6. READ THE TEXT. Reading technical material is difficult. *Expect to re-read; use the index; use the appendices; make your own notes.* Over the course of the semester you *will* learn to read better, it usually takes time. Start by setting modest, achievable goals (i.e., read half a section and do a few related problems).
7. Read material *before* it is presented in class. Always bring the textbook to class.
8. Talk to each other about mathematics. Discuss your ideas and your problems. Form study groups.
9. Come to office hours! Don't put off getting your questions answered.
10. Get enough sleep!