

MAT 206 – Applied Calculus
Course Guidelines
Course Credit: 3 semester hours
www.mc.edu/~cmcmath

INSTRUCTOR: Charlotte McMath

OFFICE: MCC 311

PHONE: 601 - 925 - 3465

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OFFICE HOURS: MWF 10:00 – 11:00; 1:30 – 2:30 (MW)
TR 9:30 - 10:00; 2:30 – 3:30

(Additional hours are available by appointment.)

COURSE DESCRIPTION: *This course is a study of the applications of calculus for disciplines outside of mathematics such as business, economics, management, computing and information systems and the life and social sciences. Topics include differentiation, integration and multivariate calculus and applications.*

RATIONALE: *Acquiring an understanding of differential calculus is critical to interpreting maximum and minimum application problems in business courses. This course provides the student an opportunity to relate mathematics to other academic disciplines.*

PREREQUISITES: *Mat 205 or equivalent*

LEARNING OBJECTIVES: *Students will define and calculate limits, derivatives, integration, and apply these concepts in problems related to their disciplines. In achieving these objectives, **students are expected to:***

- 1) *Arrive to class on time.*
- 2) *Attend every class meeting unless an emergency or school-related activity prevents it.*
- 3) *Do homework daily.*
- 4) *Read textbook before and after professor covers material.*
- 5) *Place your cell phone on silent mode and keep in your book bag.*

INSTRUCTIONAL PROCEDURES/TECHNIQUES: *Instructional procedures include lecture, problem solving and class discussion.*

COURSE CONTENT: *Units 1 and 2: Chapter 9 (The Derivative)*
Unit 3: Chapter 10 (Applications of the Derivative)
Unit 4: Chapter 11 (Integration)

MATERIALS REQUIRED:

Text: *Applied Mathematics for the Managerial, Life, and Social Sciences (Tan- 6th edition)*

Online homework access code: This comes packaged with a new text, but can be purchased separately in the bookstore or online if you purchased a used text.

Additional Materials: Access to computer, calculator

INTERMEDIATE - POST ASSESSMENT: *Your grade in this course will be determined by unit tests, unannounced daily tests, and a comprehensive final exam. A notebook should also be kept.*

Unit tests: There will be three unit tests given during the semester. (T1, T2, T3) The dates of these exams will be announced during class as the semester goes along. Each constitutes 20% of the final grade.

Unannounced daily quizzes: Unannounced daily quizzes will constitute 10% of the final grade. *(No make-up for these!)*

Online assignments: Online homework assignments will constitute 10% of the final grade. To set up your online homework account, go to: www.webassign.net. The first time you will need to click on "I have a Class Key". The class key for this section is **mc 6337 3383**. Later you will enter your access code (see purchasing options above). For more detailed instructions, see the "Student Quick Start Guide" in moodle.

Final Examination: There will be comprehensive final examination given on Saturday, May 3, 2014, at 12:00 pm. (FE) This will constitute 20% of the final grade.

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

ATTENDANCE, MAKE - UP TESTS: *Any student whose absences, whether excused or unexcused, accumulate to 12 in semester classes meeting 3 times per week or 8 in semester classes meeting 2 times per week or 4 in classes meeting once a week automatically receives a grade of F in the course. In a TR class, two tardies count as one absence. If you are late arriving to class, it is your responsibility to make sure you report this to the instructor immediately after class. **Students are expected to take tests on the day they are assigned! Make-up tests will be given only upon the receipt of a doctor's excuse or in an extreme emergency, which should be made known to the instructor prior to the test. The responsibility for missed work rests entirely with the student.***

Homework assignments are updated daily on moodle.

ACADEMIC INTEGRITY :*Students are expected to do their own work. Refer to the following web site: www.mc.edu/publications/policies/219.html.*

DROP DATE FOR SPRING SEMESTER: *Friday, March 19, 2014*

Math Lab (MCC 116): *TBA*

Student Assistance

A. Early Alert System

Mississippi College has adopted the practice of finding students early in the semester who may be exhibiting behaviors that could ultimately have a negative impact on their academic progress. These behaviors are often called “red flag” behaviors and include, but are not limited to, excessive absences, poor test grades, and lack of class participation or evidence of non-engagement. Identifying these behaviors early gives the instructor the opportunity to raise the “red flag” on behalf of a particular student so that the student can take the appropriate action to redirect his/her progress. The system alerts the student, the student’s advisor, and the Office of Student Success.

These messages are intended to help a student recognize an area of concern and to encourage him/her to make some choices to improve the situation. When a student receives an Early Alert message, the student should quickly make an appointment to talk with his/her professor about the situation. Also, students can make full use of the Office of Student Success to set academic goals and connect to campus resources.

B. Students with Disabilities

In order for a student to receive disability accommodations under Section 504 of the Americans with Disabilities Act, he or she must schedule an individual meeting with the Director of Student Counseling Services **immediately upon recognition of their disability** (if their disability is known they must come in before the semester begins or make an appointment **immediately** upon receipt of their syllabi for the new semester). The student must bring with them written documentation from a medical physician and/or licensed clinician that verifies their disability. If the student has received prior accommodations, they must bring written documentation of those accommodations (example Individualized Education Plan from the school system). Documentation must be current (**within 3 years**).

The student must meet with SCS **face-to face** and also attend two (2) additional follow up meetings (one mid semester before or after midterm examinations and the last one at the end of the semester). Please note that the student may also schedule additional meetings as needed for support through SCS as they work with their professor throughout the semester. Note: Students must come in **each semester** to complete their Individualized Accommodation Plan (example: MC student completes fall semester IAP plan and even if student is a continuing student for the spring semester they must come in again to complete their spring semester IAP plan).

Student Counseling Services is located on the 4th floor of Alumni Hall) or they may be contacted via email at mbryant@mc.edu . You may also reach them by phone at **601-925-7790**. **Dr. Morgan Bryant is director of MC Student Counseling Services.**