

Calculus I Syllabus Spring 2008

Course: MA 1713-03

Time: TTH 12:30-1:15 pm

Place: Allen 21

Final Exam: Tuesday, Apr.29, 3-6 pm

Instructor: Jerome Goddard II

Office: Allen 443

Phone: 662-325-7173

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Office Hours: MWF 10:00 – 11:00 am
Others by Appointment

Important Dates: January 21 – Holiday, no class!
February 20 – Last day to drop a course with a “W” grade
March 10 – 14 – Spring Break, no class!
March 21 – Holiday, no class!
April 25 – Last day of Class

Text: Calculus James Stewart 6e

Calculators: Calculators will be used in this course in class, but will not be allowed on tests except for announced parts of certain tests.

Free tutoring without an appointment in the Learning Center: Tutors are available in the Learning Center, located in 266 Allen. The hours are normally 2:00-7:00 p.m., Monday – Thursday, beginning the second week of the semester.

Attendance: Attendance will be taken by each student signing a roll sheet. If a student fails to sign the roll sheet, he/she will have an absence for that class. Absences will be reported weekly by the new Banner campus reporting system.

Academic Misconduct: Mississippi State University has an approved Honor Code that applies to all students. The code is as follows:

“As a Mississippi State University student I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.”

Upon accepting admission to Mississippi State University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. Students will be required to state their commitment on examinations, research appears, and other academic work. Ignorance of the rules does not exclude any member of the MSU community from the requirements or the processes of the Honor Code. Except for minor violations, the normal sanction imposed for a first-time violation of the Honor Code will be an XF grade in the course, probation, and a requirement to complete an Academic Integrity Intervention Program.

For additional information please visit:<http://www.msstate.edu/dept/audit/1207A.html>

Electronic devices: Except for calculators, all electronic devices should be turned off before entering class and put away. Using these devices during class is unacceptable including text messaging.

Assignments: Assignments from the textbook will be made. These assignments are to be worked before the next class meeting. Any issues for these problems will be discussed in class. They will not be taken up nor graded. Online assignments using “WebAssign” will also be made on each section. These problems, which will be graded, will closely follow the textbook assignments and/or the board examples worked by the instructor.

Grades: Four in class tests (100 points each for 400 points)
Online assignments (100 points)
In class quizzes (100 points)
Final exam (200 points)

Your total points from above will be **divided by 800** to calculate your course grade.

Grading scale:

| | |
|---|----------|
| A | 90-100 |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | below 60 |

Makeup Work: No makeup tests or quizzes will be allowed. The final exam calculated on a 100 point scale will replace any **one** test missed.

Material Covered:

| | |
|---------------|-------------------|
| Sec 1.1 | Sec 3.7 |
| Sec 1.3 | Sec 3.8 |
| Appendix D | Sec 3.9 |
| Quiz 1 | Quiz 3 |
| Sec 2.2 | Sec 4.1 |
| Sec 2.3 | Sec 4.2 |
| Sec 2.4 | Test 3 |
| Sec 2.5 | Sec 4.3 |
| Test 1 | Sec 4.4 |
| Sec 3.1 | Sec 4.5 |
| Sec 3.2 | Sec 4.7 |
| Sec 3.3 | Sec 4.9 |
| Sec 3.4 | Test 4 |
| Quiz 2 | Final Exam |
| Sec 3.5 | |
| Sec 3.6 | |
| Test 2 | |

MA 1713 Fall 2007 Tentative Course Outline

| Week | Date | Section | |
|------|-------|---------------------|--|
| 1 | 8/20 | Syllabus/ WebAssign | |
| | 8/22 | Sec 1.1 | Four Ways to Represent a Function |
| | 8/24 | Sec 1.3 | New Functions from Old Functions |
| 2 | 8/27 | Appendix D | Trigonometry |
| | 8/29 | Quiz /Sec 2.2 | The Limit of a Function |
| | 8/31 | Sec 2.3 | Calculating Limits Using the Limit Laws |
| 3 | 9/3 | Holiday | |
| | 9/5 | Sec 2.4 | The Precise Definition of a Limit |
| | 9/7 | Sec 2.5 | Continuity |
| 4 | 9/10 | Review | |
| | 9/12 | Test 1 | Material covered through Sec 2.5 |
| | 9/14 | Sec 3.1 | Derivatives and Rates of Change |
| 5 | 9/17 | Sec 3.2 | The Derivative as a Function |
| | 9/19 | Sec 3.3 | Differentiation Formulas |
| | 9/21 | Sec 3.4 | Derivatives of Trigonometric Functions |
| 6 | 9/24 | Sec 3.5 | The Chain Rule |
| | 9/26 | Quiz / review | |
| | 9/28 | Test 2 | Material Covered through Sec 3.5 |
| 7 | 10/1 | Fall Break | |
| | 10/3 | Sec 3.6 | Implicit Differentiation |
| | 10/5 | Sec 3.7 | Rates of Change in the Natural and Social Sciences |
| 8 | 10/8 | Sec 3.8 | Related Rates |
| | 10/10 | Sec 3.8 cont | |
| | 10/12 | Sec 3.9 | Linear Approximations |
| 9 | 10/15 | Sec 4.1 | Maximum and Minimum Values |
| | 10/17 | Sec 4.2 | The Mean Value Theorem |
| | 10/19 | Review | |
| 10 | 10/22 | Test 3 | Material Covered through Sec 4.2 |
| | 10/24 | Sec 4.3 | How Derivatives Affect the Shape of a Graph |
| | 10/26 | Sec 4.4 | Limits at Infinity |
| 11 | 10/29 | Sec 4.4 cont | |
| | 10/31 | Sec 4.5 | Summary of Curve Sketching |
| | 11/2 | Sec 4.5 cont | |
| 12 | 11/5 | Sec 4.7 | Optimization Problems |
| | 11/7 | Sec 4.7 cont | |
| | 11/9 | Sec 4.8 | Newton's Method |
| 13 | 11/12 | Sec 4.8 cont | |
| | 11/14 | Sec 4.9 | Antiderivatives |
| | 11/16 | Sec 4.9 cont | |
| 14 | 11/19 | Quiz | Curve Sketching/ Derivatives/Antiderivatives |
| | 11/21 | Holiday | |
| | 11/23 | Holiday | |
| 15 | 11/26 | Review | |
| | 11/28 | Test 4 | |
| | 11/30 | Review | |
| 16 | 12/3 | Address questions | |
| | 12/10 | Final Exam | Monday, December 10, 3-6 pm |