

**MA1161 Calculus Plus with Technology I
Spring 2006**

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Texts: *Calculus, Single and Multivariable (Fourth Edition)* by Hughes-Hallett, et. al., published by Wiley, 2005.

Course Objectives:

Students in MA1161 should be able to:

- Evaluate and interpret functions and their inverses when information is presented numerically, algebraically or graphically.
- Describe the concept and application of a derivative.
- Evaluate and interpret derivatives of functions using standard techniques.
- Use derivatives in mathematical modeling and application problems.
- Describe the concept and application of a definite integral.

Course Expectations:

Students in MA1161 are expected to:

- Attend every class, unless excused by the instructor. This also includes attending the lab sessions.
- Prepare for class each day. This means that you should read the section being discussed that day, as well as complete all assigned homework problems. You should expect to spend a minimum of 2 hours outside of class for every one hour of class time.
- Take detailed notes in class, and review these notes as part of your class preparation.
- Have mastered the prerequisite skills for the course.
- Ask questions if something is not clear. This includes asking questions in class, as well as seeing your instructor during office hours.
- Turn in assignments on time, showing neat and logical work.

Help:

Help is available from many different sources, including:

1. Your instructor during posted office hours *or* by appointment;
2. The Mathematics Learning Center (MLC) in Fisher 128: walk-in hours or personal appointments;
3. Fellow classmates.

▷▷ SEEK HELP BEFORE IT'S TOO LATE!

Attendance:

Attendance and participation are crucial to your success in this course. Your instructor will be counting on you to be in class and to be prepared. If you are unable to attend a class due to an illness or personal loss, you should contact your instructor as soon as possible.

Basic Skills Test:

The Basic Skills Test is designed to test your knowledge of material from previous math courses. It counts as 10% of your final course grade; you need to score 20 out of 25 to receive full credit. The first exam will be given on **Wednesday, January 11, from 6:00-7:00 p.m. (in either Fisher 135, 138, or 139 or M&M U115; your instructor will announce your room assignment in class)**. If you do not pass the exam on the first try, you will have two other opportunities to retake the test. These retakes will be from 6:00-7:00 p.m. on Tuesday, January 17 and Thursday, January 19. Please refer to the attached BST policy for more details.

Dropping a Course:

Last day to drop with a full refund: Wednesday, January 18
Drop-date (no grade): Friday, January 27
Drop with a "W": Friday, March 3

Homework and Quizzes:

- Daily homework assignments will be given, some of which will be collected and graded.
- For problems that are graded, the following scale will be used:
 - 3 = complete, correct, neat and logical;
 - 2 = minor error;
 - 1 = more than one minor error;
 - 0 = not completed or not turned in on time.
- For each problem, restate the problem, show your analysis, and clearly identify the answer to the question. All of your work must be neat, legible and logical.
- A number of in-class quizzes will be given during the semester. The content of the quizzes will be closely related to the assigned homework problems. It is to your advantage, then, to carefully complete each homework problem and ask questions about those you do not fully understand.
- **NO MAKE-UP HOMEWORK OR QUIZZES WILL BE GIVEN.**

Exams:

Two in-class exams, a comprehensive midterm, and a comprehensive final exam will be given. Test dates appear on the daily schedule. Please mark the dates on your calendar today! All exams may include both calculator and non-calculator sections. The midterm and the final are comprehensive departmental exams, which may also include a calculator and non-calculator section. The midterm is an evening exam and is scheduled from 6:00-7:30 p.m. on Tuesday, February 21. There will be **NO EARLY OR LATE MIDTERMS OR FINALS**. Do not make plans to leave early at the end of the semester until the final exam schedule has been announced.

Midterm Grades:

During the week of February 20-23, your instructor will be reporting a mid-term grade for all first year students, based on your work completed to that point. The report will be either "Satisfactory" or "Unsatisfactory." Students who have maintained a grade of C ($\geq 70\%$) will receive a "Satisfactory" report.

Grading:

HW and Quizzes	15%
2 one-hour exams	20%
Midterm exam	20%
BST	10%
Labs	10%
Final Exam	<u>25%</u>
TOTAL	100%

Scale:

Your final grade will be based on the following scale:

$\geq 90\%$	A
85% - 89.9%	AB
80% - 84.9%	B
75% - 79.9%	BC
70% - 74.9%	C
65% - 69.9%	CD
60% - 64.9%	D
$< 60\%$	F

If you have a disability that could affect your performance in this class or that requires a special accommodation, please see me as soon as possible so that we can make the appropriate arrangements. The Affirmative Action Office has asked that you be made aware of the following:

“MTU complies with all federal and state laws and regulations regarding discrimination, including the ADA Act of 1990. If you have a disability and a need, a reasonable accommodation for equal access to education or services can be made through the Dean of Students Office (Gloria Melton 487-2212). For concerns regarding discrimination of any kind, please contact your advisor, department head, or affirmative action office.”