

# Math 125 Basic Calculus

## Departmental Syllabus Summer 2008

### Second Session

Section: \_\_\_\_\_, Time: \_\_\_\_\_, Location: \_\_\_\_\_

Instructor:  
Office/Phone:  
Office Hours:  
Email:  
Webpage:

**Course Description:** For students not planning to major in the physical sciences, engineering, mathematics, or computer science. Calculus of algebraic, exponential, and logarithmic functions, with applications. Prereq: satisfactory placement test score, or 119 or 130. No student who has received credit for 141 or 152 with a grade of C or better may subsequently receive credit for 125. Students who receive a grade of C or better in Math 125 may not subsequently receive credit for 119. (**QR**) 3 credit hours.

**Text:** *Finite Mathematics and Applied Calculus*, by Berresford and Rockett, Second Edition, Houghton Mifflin Publishers.

**Optional Textbook Companion Website:** [www.eduspace.com](http://www.eduspace.com). Use the “passkey” that came with your new textbook and the course code provided by your instructor to access online resources (including free online tutoring called “Smartthinking”) to accompany your text.

**Calculator:** A graphing calculator is recommended for this course. The Math Department highly recommends and provides support for the TI-83+ and TI-84+ models. While other calculators may be used with your instructor’s permission, instructors and tutorial center staff may not be able to provide help on how to use them. Use of cell phone calculators and calculators with advanced alpha-numeric capabilities, such as the TI-89, is forbidden in this course.

**Grades:** Grades will be determined using the grading scale below. Your letter grade is a measure of your mastery of course material and your fulfillment of course objectives. You should keep all of your graded work until final grades are posted. The “other” category will consist of

#### Grading Scale:

Exam 1	17%	$90\% \leq A \leq 100\%$
Exam 2	17%	$85\% \leq B+ < 90\%$
Exam 3	17%	$80\% \leq B < 85\%$
Exam 4	17%	$75\% \leq C+ < 80\%$
Exam 5	17%	$70\% \leq C < 75\%$
<u>Other/Quizzes</u>	<u>15%</u>	$60\% \leq D < 70\%$
Total possible	100%	$F < 60\%$

## Attendance & Make-up Policy:

**Disability Services:** If you need course adaptations or accommodations because of a documented disability or if you have emergency information to share, please contact the Office of Disability Services at 2227 Dunford Hall at 974-6087.

**Math Tutorial Center:** The Math Tutorial Center is in Ayres Hall room 322. It provides **free tutoring**. Hours of operation are posted at <http://www.math.utk.edu/MTC/>. Please make use of this free service.

<b>Important Dates:</b>	
Add/drop without W deadline	July 9, 2008
Exam 1	July 10, 2008
Exam 2	July 16, 2008
Drop with W deadline	July 18, 2008
Exam 3	July 24, 2008
Drop with WP/WF deadline	July 30, 2008
Exam 4	July 31, 2008
Exam 5	August 7, 2008

**Classroom Etiquette:** Please be considerate of the instructor and those around you. Come to class on time and stay the entire period. Turn off cell phones and beepers during class. Do not talk to classmates at inappropriate times. Refrain from reading newspapers or working on other coursework during class. For information on Classroom Behavior Expectations and consequences of non-compliance please see the following link:  
<http://www.math.utk.edu/Undergraduate/undergrad/Expectations.pdf>

### Academic Standards of Conduct:

All students are expected to abide by the University **Honor Statement**. In mathematics classes, violations of the honor statement include copying another person's work on any graded assignment or test, collaborating on a graded assignment without the instructor's approval, using unauthorized "cheat sheets" or technical devices such as calculators, cell phones or computers for graded tests or assignments, or other infractions listed in "**Hilltopics**". These violations are serious offenses, subject to disciplinary action that may include failure in a course and/or dismissal from the University. The instructor has full authority to suspend a student from his/her class, to assign an "F" in an exercise or examination, or to assign an "F" in the course. See "**Hilltopics**" for more complete information. A report of all offenses will be sent to appropriate deans and the Office Student Judicial Affairs for possible further action.

#### The Honor Statement

*An essential feature of the University of Tennessee is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the University, I pledge that I will neither knowingly give nor receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity.*

The following schedule is tentative. Each instructor has the option to vary dates and assignments as they see fit.

<b>Date</b>	<b>Section</b>	<b>Topic</b>
July 7, 8	8.1	Introduction, Syllabus, Limits & Continuity
July 8	8.2	Rates of Change & Derivatives
July 9	8.3	Differentiation Formulas
July 10	Review	
July 10	<b>Exam 1</b>	Exam Sections 8.1, 8.2, & 8.3
July 11	8.4	Product & Quotient Rules
July 14	8.5	Higher Order Derivatives
July 14, 15	8.6	Chain Rule
July 16	Review	
July 16	<b>Exam 2</b>	Exam Sections 8.4, 8.5, & 8.6
July 17	10.2	Differentiation of Exponential & Log Functions
July 17, 18	9.1	Graphing Using 1st Derivative (Graph using calculator, show asymptotes, but <b>calculate cr. #s by hand</b> )
July 21	9.2	Graphing using 1st & 2nd Derivative ( <b>by hand</b> )
July 22, 23	9.3	Optimization
July 23	9.6	Implicit Differentiation and Related Rates
July 24	Review	
July 24	<b>Exam 3</b>	Exam Sections 9.1, 9.2, 9.3, 9.6, & 10.2
July 25, 28	11.1	Antiderivatives
July 28, 29	11.2	Integration of Log & Exponential Functions
July 29, 30	11.3	Definite Integrals
July 31	Review	
July 31	<b>Exam 4</b>	Exam Sections 11.1, 11.2, & 11.3
August 1, 4	11.4	Area Between Curves
August 5	11.5	Consumer's & Producers Surplus
August 6	11.6	Substitution
August 7	Review	
August 7	<b>Exam 5</b>	Exam Sections 11.4, 11.5, & 11.6