

Math 232 – Fall 2011

§29399	TR	18:15-19:30	D 315
§22926	TR	16:50-18:05	D 322
§21842	MW	16:20-17:35	UT 304

Preliminary Syllabus

Professor: Dr. Lee Townsend
Office Hours: MW 5:45-7:00, TR 3:30-4:30 in UT 236
E-mail: ltownsend@hartford.edu or sapid@rcn.com or Lee.Townsend@me.com (cell phone)
Phone: 860-768-4763, 860-550-3832 (cell and text).
You can email a text message to me at 8605503832@mms.att.net.
Text: Washington, Basic Technical Mathematics with Calculus, 9th ed.
Calculator: TI-89 (essentially required)
Prerequisite: C- or better in MTH 122 or equivalent or passing the MTH 122 placement exam

Course Objectives

- 1) The student will develop a basic understanding of what a derivative is as a limiting process.
- 2) The students will learn how to find the derivatives of
 - Algebraic Functions
 - Inverse Trigonometric functions
 - Exponential functions
 - Trigonometric functions
 - Logarithmic functions
- 3) The students will learn to use the TI-89 calculator as a tool to solve problems encountered in the algebras identified in objective 2.
- 4) The student will develop pattern matching skills.
- 5) The students will learn apply the above objectives to problems encountered in their major.

Grade Calculation

There will be three in-class exams, the last one taken during the final exam slot. You must show details of your work to get full credit. Extra credit is given for checking your work using a different solution method. You may take an optional auxiliary exam within one week of my handing back the graded exams in class. This second exam is taken during my office hours or by appointment. The second exam will be multiple choice with no partial credit given. The grade used for the exam will be 75% of the second exam grade added to 25% of the in-class exam grade or 100% of the in-class exam, whichever is greater.

Homework will be assigned. Most of the homework will be done in class so bring your book and calculator to *every* class. I highly recommend that you write your own sample solution book in which you solve typical problems from those covered in class. Do this either in class or just after class before you forget what we did. Since the exams are open note and open book, you will find your sample solution book to be very helpful on exams and for your permanent records.

Grade scaling, if any, will occur on the final course. Your grade is based on exam performance. Good attendance, attitude, and exceptional class participation will raise your grade in borderline cases. Historically, poor attendance as well as not doing the homework both lower your grade. Should you miss a class please get the class notes and any handouts from a classmate.

Typical final grades

Because of my auxiliary exam method, my final grades tend to fall into the traditional ranges. You should be able to calculate your own final grade once you get the results from Exam 3.

Missed exam policy

There are no make-up exams except in extraordinary circumstances. Permission must be obtained *before* the original exam date in order to take any delayed exams. You may notify me by email or text message. Please identify yourself and course number in either case.

Missed class policy

You are responsible for obtaining all class notes and handouts from fellow students. *DO NOT SHOW UP IF YOU ARE ILL.*

Chapters covered – all or in part: 23, 24, 27, 21

(over)

Relevant web sites:

Comment	URL
Excellent tutorial on the TI-89	https://www.math.lsu.edu/~neal/TI_89/index.html
I recommend you download the review sheets.	http://tutorial.math.lamar.edu/
There is a TI-89 tutorial on my web site.	http://uhaweb.hartford.edu/ltownsend/
Software for the TI calculators, including the calculator emulator for the PC, VTI.exe	http://www.ticalc.org/
A superb online math solver. It shows all the intermediate steps.	http://www.intmath.com/
Another excellent online math solver as well as other information. It shows all the intermediate steps.	http://www.wolframalpha.com/
Use the TI website for downloads of software and manuals.	http://education.ti.com/educationportal/sites/US/productDetail/us_ti89ti.html
Manuals for TI 89: Diff Eq with field plots Linear Algebra Introduction to the TI-89	http://www.rowan.edu/colleges/las/departments/math/facultystaff/hassen/EngAnal2/Calculators.html
Math activities on the TI web site	http://education.ti.com/calculators/timath/