Math 192 Syllabus: Spring 2009

Some basic information:

- Name: Nathan Ryan
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- Homepage:

  `http://www.unix.bucknell.edu/~ncr006`

Office Hours:
W 10:30-11:30, F 10:30-11:30
Additional Common Office Hour times and locations posted on the course website.

Course Location:
Section 04: MWF 1:00-2:52 Olin 371

Course Text:
Marvin L. Bittinger and David J. Ellenbogen, *Calculus and Its Applications*, ninth edition.
Pearson Education 2008.

Selected topics from review chapter and chapters 1-5.

Course Calculator:
A graphing calculator is essential for this course. The official course calculator is a TI 89. You may use a different graphing calculator; however, you are responsible for knowing how to perform any functions demonstrated in class on the TI 89.

Be advised that you will also need to demonstrate some computation skills without the aid of your calculator.

In this course we will study the following topics:

- Basic properties and graphs of functions.
- Derivatives of common functions and higher derivatives.
- Applications of derivatives to maximizing/minimizing in business and economics.
- Models of growth and decay, including logarithms and exponentials.
- Properties of integrals.
- Introductory probability.

To help you learn these topics and evaluate your progress, you will complete the following assessments for a total of 600 points:

1. (100 points) Participation: Homework/WebWork/Quizzes
2. (100 points each) Midterm Exams
3. (200 points) Final Exam (Cumulative)

Participation:

- (30 points) Homework:
  - Homework will be collected once a week; it should be nicely written and legible; points may be lost for sloppiness. Late homework will not be accepted.
- (30 points) Webwork:
  - In addition to written homework, also expect to complete WebWork homework problems prior to arriving at class. These problems are designed to give you immediate feedback on your understanding.
  - You may collaborate on homework and WebWork with classmates and seek help from tutors, but ultimately you are responsible for understanding each problem.
- (40 points) Quizzes:
  - Expect a quiz biweekly; quiz dates and topics will be announced ahead of time. Your lowest quiz score will not count towards your grade.
  - There will be no make-up quizzes. If an excuse is accepted, then the quiz grade will be calculated from the remaining quizzes. Otherwise the missed quiz results in a zero. If you will miss a quiz due to an official University excuse, you must contact me ahead of time. If you miss a quiz due to a sudden emergency, you should receive an official University excuse (such as a doctor's note or note from the Dean) and contact me prior to the next class meeting.

Exams:

- All midterm exams will be on **Monday evening 7-8:22 pm** on the following dates:
  - Exam 1: February 16
  - Exam 2: March 23
  - Exam 3: April 20
- In addition, there will be a **cumulative Final Exam** during the final exam period.
- You will need a calculator on some of the exams. Make sure your calculator works and has batteries prior to arriving at the exam.
- There will be no make-up exams. The official Math 192 exam policy is:

  If a student has to miss a test due to sickness, an emergency, or other legitimate excuse then the grade on the final exam will be used as the grade on the missed exam. In any case, no make-up tests will be given. The instructor decides whether an excuse is legitimate. If the instructor and the student disagree, the department chair will decide.

A note about expectations:

The median grade for Math 192 students last year was a B-. This means that typically slightly more than half of all Math 192 students receive a B- or better, while slightly less than half receive a C+ or below. If you are unsure how you are doing in this class at any time or concerned about your performance, please let me know.

Students in Math 192 typically report needing to spend an average of 6-8 hours a week outside of class in order to do well. Very few spend less than 5 hours, and you may find yourself spending more than 8 hours on some material.

A note about homework:

The purpose of the homework is for you to further your understanding of the topics discussed in class and the text. You are encouraged to reread your class notes and the textbook prior to starting the homework. If you get stuck on a problem, you should first try rereading the class notes, text, and examples in the book. If you are still not sure how to proceed, you should ask for help. There are a variety of resources available at Bucknell.

Good Resources

- **Office hours.** I will be in my office during these specified times awaiting your arrival. Stop by during these times without an appointment to talk. Please do not be shy about visiting office hours. I am happy to chat about homework, the course in general, or any other questions you may have. In addition, all Math 192 instructors will hold one common Math 192 Office Hour a week open to all Math 192 students. Please check the course website for this schedule.
- **The Math Department's free drop-in help sessions, Sunday-Thursday from 7-9pm in 372 Olin Science**. This is staffed by students who have a strong background in Calculus. Some students prefer to do their homework at the help session so that they may ask questions as soon as they arise.
- **Online messaging through email** I will respond as soon as possible; however, I may be slow to respond between 5pm and 8am. If appropriate, I will post a response to questions about homeworks, quizzes, and exams on the course webpage.
- **Your classmates.** It can be helpful to set-up a regular meeting time with a study partner. Just make sure that you can do the problems on your own. Some students find it helpful to redo a few problems on their own the day after meeting with a study partner.
- **The student solution manual.** This manual has worked out solutions to all odd-numbered exercises of the text. A copy is available on reserve in the library. This is a last resort. If you need to consult this manual, you should then close the page and try to write down the solution to the problem on your own to see if you really understood what you read.