

Mathematics 116, Fall 2008
Wellesley College
Calculus II
Syllabus

Instructor	Brian Munson
Office	SCI 366
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Office Hours	11-12 Tu & W, 10-12 F, or by appt.
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I highly recommend you arrange your schedule so you can attend at least some of my office hours.

Logistics

Text: *Calculus: Concepts and Contexts*, third edition, by James Stewart.

We meet in SCI 396 Tuesdays and Fridays from 1:30-2:40, and Wednesdays from 2:15-3:25.

It is your responsibility to subscribe to the Course Conference for this course: MATH116-06-F08. This can be done through First Class.

Course Description

We will complete the second half of the calculus curriculum. This includes, but is not limited to: definite and indefinite integrals, fundamental theorem of calculus, substitution, integration by parts, rational functions and partial fractions, integral tables, approximate integration, areas between curves, volumes by slicing, volumes by cylindrical shells, applications to physics, applications to biology, applications to economics, improper integrals, sequences, series, convergence tests, power series, Taylor series. If there is time, we will cover some basic differential equations and modeling. A more detailed description, along with your homework assignments, will be continuously updated on the course conference: MATH116-06-F08. *You must subscribe to the course conference so you can get your homework assignments, readings, and other course announcements.*

Goals

To improve problem solving skills, logical reasoning, and algebra skills in the context of learning some more calculus, which will be invaluable in your studies of science and economics. The primary theme of this course is approximation, and we will learn a great many methods of approximation, as well as a little bit about error estimation.

Your Grade

Your grade will be a weighted average of your homework scores, and your three exam scores, weighted according to the following percentages.

- Homework (includes Quizzes) 20%
- Exam 1 25%
- Exam 2 25%
- Final Exam 30%

Additionally, we will have two short quizzes (about a half hour long) with the purpose of preparing you for the exam. They will take place on October 1 and November 5, exactly one week before each exam. They will each count as one homework each, and you may submit corrections to your quiz to earn back up to half of the points you missed. This is meant to help you distribute your studying while not penalizing you too much for missing problems.

Exams will be graded on a curve, which normalizes the average score to an 83, which is a “B”. Homework (including the two quizzes), is not curved.

Your letter grade will be decided by what percentage of the total possible points (weighted according to the above) that you earn. An A is 93% and above, an A- is 90-92%, a B+ is 87-89%, a B is 83-86%, a B- is 80-82%, a C+ is 77-79%, a C is 73-77%, a C- is 70-72%, a D is 60-69%, and anything below 60% is failing. This same scale should be used to determine a letter grade for your exams, if you are interested in such things.

Homework

Homework is due on Fridays no later than 4 PM. It is to be turned in to an envelope outside my door labeled Math 116. Late work is not accepted under any circumstances. I will drop your lowest two homework scores at the end of the semester. **You must read the document entitled “Course Policies” for the full list of homework submission guidelines.** The homework you turn in on Friday will cover the material from the previous week, so you have at least one week after the time we cover the material in class to complete the homework. I reserve the right to change the homework by removing problems, but I will never add any.

Exams and Quizzes

Quiz 1: Wednesday, October 1.

Exam 1: Friday, October 10.

Quiz 2: Wednesday, November 5.

Exam 2: Friday, November 14.

Final Exam: Self-scheduled

Quiz policy: Quizzes count as **two** homeworks each. Upon receiving your graded quiz, you may submit corrections to earn up to half of the points you missed. The corrections are due the Monday after you take the quiz.

Resurrection Policy: If your final exam score, considered as a percentage of the total points possible, is higher than either of your first two exam scores, it will replace the lower of the two. For instance, if you got 80% on Exam 1, 60% on Exam 2, and 70% on the Final Exam, then your adjusted scores would be 80%, 70%, and 70% respectively for Exam 1, Exam 2, and the Final Exam. If your scores were 80%, 60%, 55%, respectively, then your adjusted scores would remain unchanged.

Office Hours

In addition to the times indicated above, please feel free to make an appointment to visit with me in SCI 366 either by telephone or email. More information about office hours is contained in the "Course Policies" document.

Additional Help

SCI 362 is staffed by tutors from 7-9 PM Sunday through Thursday. If you want to look into a private tutor, please inquire at the Learning and Teaching Center.

Disabilities

Students with disabilities who may be taking this course may need disability related classroom and exam accommodations and are encouraged to meet with me as soon as possible. They should visit the Learning and Teaching Center to register for support services.

Important Dates

Some important dates to remember:

Sept. 2: First Class

Sept. 12: Add period ends

Sept 26: Drop deadline

Oct. 1: Quiz 1

Oct. 10: Exam 1

Oct. 14: No class (fall break)
Oct. 28: No class (Tanner Conference)
Nov. 5: Quiz 2
November 14: Exam 2
November 26,28: No class (Thanksgiving)
Dec. 9: Last day of classes