

## Math 170-006

### Calculus I

Fall 2008 (MTuWF 12:40-1:30pm, MG 139)

**Instructor:** Dr. Grady Wright

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**Office Hours:** MW 1:40-3:15pm, Tu 10:30-11:30, or by appointment

**Text:** Hass, Weir, Thomas, *University Calculus, Part One*, Pearson Addison-Wesley, 2007

**Course webpage:** <http://math.boisestate.edu/~wright/courses/m170/006>

Homework assignments, exam review notes, announcements, and the course schedule will be posted on the course webpage. So, check it on a regular basis.

**Prerequisites:** College algebra (M143) and Analytic Trigonometry (M144), or just Precalculus (M147)

**Schedule:** We will cover all sections of Chapters 1-4 and Sections 1-5 of Chapter 5.

**Homework:** Consistently doing and understanding the homework is the very best way to learn Calculus. Homework is assigned on a daily basis and is posted on the course webpage; it is collected every Tuesday (except during Thanksgiving break). Homework assignments consist of several problems from each of the sections we cover. While it is expected that you do all the homework problems, they will not be directly graded, but will be looked over for completeness.

Late homework is accepted up to 24 hours after the due date for half the credit. Beyond this time period, late homework will not be accepted unless there are extraordinary circumstances.

**Collaboration:** Collaboration is part of the real world and therefore permitted for all homework assignments, BUT NOT ON QUIZES OR EXAMS. However, **each student is responsible for turning in their own written solutions to the problems.** Straight copying of another student's work will result in a zero on that assignment for all parties involved.

**Quizzes:** Every Tuesday there will be a 10 to 15 minute quiz at the beginning of class. It will consist of one problem taken directly from the homework that is due that day. **No make-up quizzes will be given.** Your lowest two quiz scores will be dropped.

**In-class group work:** Throughout the semester there will be group work assigned during class. This work may or may not be graded, but your participation will always be recorded either through your group handing in the worksheet, or demonstrating your solution to the rest of the class. In-class group work cannot be made-up.

**Midterm exams:** There will be three in-class midterm exams. The tentative schedule for these is:

- Wednesday, September 17, 2008
- Wednesday, October 22, 2008
- Tuesday, November 18, 2008

Taking these exams at any other time than what is specified is not allowed, unless there are physician documented health reasons or other documented family difficulties explaining your situation.

**Final Exam:** The final exam will be comprehensive and will take place Monday December 15, 2008 1:00pm-3:00pm. **No early or late exams will be given.**

**Technology:** The use of calculators or notebook computers is permitted for homework and in-class group work, but not on the exams. We may make periodic trips to the computer lab to make use of the mathematical software *Maple*.

**Grading policy:** The breakdown for the final course grade is as follows:

- Homework: 5%
- Quizzes: 25%
- In-class group work: 5%
- Midterm 1: 35/3%
- Midterm 2: 35/3%
- Midterm 3: 35/3%
- Final (Monday December 15, 2008 1:00pm-3:00pm): 30%

Your grade will be determined from the standard percentages.

**ALEKS Assessment:** If you have taken the ALEKS assessment test and scored less than 70%, then your final grade for the course will automatically be lowered by one full letter grade. If you have not taken the ALEKS assessment test prior to 11:59pm on August 29 then your test score will automatically be set to zero and the one full letter grade deduction will be applied. If you have taken the ALEKS assessment test and scored 70% or above then no automatic deductions will be taken from your final grade.

**Tutoring:** Free “drop-in” tutoring is available for this course through Academic Support Services. You may also obtain a list of private “for-hire” tutors there. Go to <http://tutoring.boisestate.edu/mdic.shtml> for more information.

**Important dates:**

- **Sept. 8** – last day to register; add classes; change from credit to audit or audit to credit; and last day to drop classes without a “W” and receive a refund.
- **Oct. 3** – last day to drop classes or completely withdraw.
- **Dec. 12** – Classes end
- **Dec. 15** – Final exam, 1:00pm-3:00pm

**Academic honesty:** All students are expected to be familiar with and adhere to the policies and standards given in the BSU Student Code of Conduct (<http://www2.boisestate.edu/studentconduct/Student%20Code%20of%20Conduct.htm>)

**Learning objectives:** The learning objectives for this course set down by the Department of Mathematics are the following:

- To develop an understanding of the derivative and how it can be used in solving problems.
- To understand the relationship between the derivative and the graph of a function.
- To be sufficiently practiced in basic algebra to set up and solve equations and inequalities involving functions and their derivatives.
- To recognize that the integral is an operator which can be approximated through Riemann sums and is (in a sense) an anti-derivative of the integrand.
- To have mastered the basic formulae for differentiation and integration.