MATH 170-006

Calculus I

MTuWF 12:40 p.m.-1:30 p.m.

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Office: MG 240B Office phone: (208) 426 - 2896

Textbook: Hass, Weir, Thomas, University Calculus, Part One, Pearson Addison-Wesley, 2007.
Course web-site: http://diamond.boisestate.edu/~liljanab/MATH170Spring08/index.htm. Homework assignments, due dates, exam study guides, tentative schedule and other information will be posted at this web-site.
Homework: Homework will be assigned on a weekly basis. To be on time homework must be handed in at the beginning of the class when it is due. No late homework will be accepted. You should do all the homework problems, but only specified problems from each assignment will be graded. Only these should be handed in for grading. You may send your homework by fax or by e-mail, but it still must be on time.
Office hours: MWTh 9:40 a.m. - 10:30 a.m. or by appointment.
Attendance policy: You are responsible for attending the class. You are also responsible for making up any work you may have missed by failing to attend class, even if the absence was approved by the university, necessitated by illness, or necessitated by a personal emergency.
Term exams: There will be three term exams. The tentative dates for these are:
Exam 1: February 15, 2008
Exam 2: March 7, 2008
Exam 3: April 11, 2008
A term exam can be rescheduled ONLY in case of a substantiated medical or other emergency.
Final exam: Not taking the final exam will result in failing the course. The final exam cannot be rescheduled. The final exam is not comprehensive. The final exam will cover only the new material since the previous test. The date for the final exam is May 12, 1:00 p.m. - 3:00 p.m.
Grade schema: Your grade will be based on your performance in homework assignments, three semester examinations and a final examination. The percentages available for these are as follows:

- Homework: 30%
- Term exams: 45%
- Final exam: 25%

The letter grade scale will be as follows:
A- : 90% - 92%; A: 93% - 96%; A+: 97% - 100%
B- : 80% - 82%; B: 83% - 86%; B+: 87% - 89%
C- : 70% - 72%; C: 73% - 76%; C+: 77% - 79%
D- : 60% - 62%; D: 63% - 66%; D+: 67% - 69%
F: Below 59%
Academic Dishonesty: All work (assignments, tests and final examinations) are required to be the student's own work. The university policy and procedures will be applied to all cases of

academic dishonesty that occurs in this class. Please familiarize yourself with the university policy and guidelines about academic dishonesty.

Calculator Policy:

1. You are not required to use, but you may use your calculator during homework, tests and the final examination to verify that you obtained the correct numerical or symbolic answers. However, **you will only receive points for showing the mathematical steps you followed to obtain these answers. Just writing down a correct final answer without showing any correct mathematical steps in obtaining these answers does not qualify for any points.**
2. Knowing how to use your calculator and the functions of the various buttons on it is solely your responsibility. No questions in this regard will be answered in class or during tests or the examination.
3. Having a functional calculator when you want to use one is solely your responsibility. No arrangements to provide you with a functional calculator when yours fails during a test or examination will be made.

Learning objectives: The learning objectives as set down by the Department of Mathematics are the following. Upon completion of this course, students should:

- Develop an understanding of the derivative and how it can be used in solving problems.
- Understand the relationship between the derivative and the graph of a function.
- Be sufficiently practiced in basic algebra to set up and solve equations and inequalities involving functions and their derivatives.
- 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.
- Have mastered the basic formulae for differentiation and integration.

Assessment of Learning Objectives: Students will be assessed by evaluating their ability to do problems based on the learning objectives. The problems will occur in several contexts:

- Periodic problem sets for homework serve both as learning and assessment tools.
- Classroom activities may vary depending on students' performances on homework assignments.
- Problems given on in-class examinations are designed to give students the opportunity to demonstrate their ability to apply rules and formulae to the solution of simpler problems.
- Instructor-optional take-home examinations designed to evaluate the students ability to solve more complicated and time-consuming problems. These problems give students the opportunity to demonstrate their ability to use technology.