Syllabus for Math 50A

Course Information

Semester & Year: Spring Semester 2020
Course ID & Section #: Math 50A Section E7565
Instructor's name: Brad Morin
Day/Time: MWF 8:40 - 9:55 am
Location: SC 214
Number of units: 4

Instructor Contact Information

Office location: Math Lab
Office hours: WF 10:00 - 11:00
Phone number:
Email address: brad-morin@redwoods.edu

Required Materials

Textbook Title: Calculus,Early Transcendentals, 5e Edition by James Stewart.
Edition: 5e Edition
Author: James Stewart
ISBN: 13: 978-0534393212
Other requirements: TI-84

Catalog Description

A study of limits, continuity, and derivatives of algebraic, transcendental, and trigonometric functions. Applications of the derivative include optimization, related rates, examples from the natural and social sciences, and graphing of functions. The course introduces the integral and the connection between the integral and derivative.

Course Student Learning Outcomes *(from course outline of record)*

1. Evaluate the limit of a function at a real number and determine if a function is continuous at a real number. Use the limit to find the derivative of a function, and interpret the derivative as a rate of change.
2. Use the derivative to find the equation of a tangent line to a function.
3. Use the differentiation formulas to compute derivatives and use differentiation to solve applications such as related rate problems and optimization problems.
4. Graph functions using methods of calculus.
5. Evaluate a definite integral as a limit.

Evaluation & Grading Policy

Basis for Grade:

25% Daily Quizzes on homework given at the end of class
50% Semester Exams.
25% Final Exam

Homework & Quizzes:

Daily quizzes will be either directly from the homework, or similar to a homework problem.
Homework is not turned in. You use your homework in taking the daily quiz.
Time required for homework may average three hours outside of class for each class period. Some of you will take longer than that.

Exams:

Exam questions will be directly from, or else quite similar to, the homework.

Makeup Exams and Quizzes:

Makeup work will not provide a shortcut for getting a good grade.
Makeup work will be demanding but interesting, profoundly developing math skills and insights.
Makeup options are outlined on the assignment sheet.

Grading:

A 93% - 100% A- 90% - 92%
B+ 87% - 89% B 83% - 86% B- 80% - 82%
C+ 77% - 79% C 70% - 76%
D 60% - 69%
F Below 60%

Prerequisites/co-requisites/ recommended preparation

Prerequisites: College Algebra & Trigonometry