Syllabus for: Math50A– Brad Morin

Semester & Year:	Fall 2013
Course ID and Section Number:	Math-30-E3884
Number of Credits/Units:	4
Day/Time: **Location:**	MW 6:05 pm – 8:10 pm HU110
Instructor's Name:	Brad Morin
Contact Information:	Math Lab Hours: Tuesday – 9:30 – 10:30 Wednesday – 11:30 – 2:00 Thursday – 9:30 – 10:30 Email: brad.morin@gmail.com

Course 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.

Student Learning Outcomes (as described in course outline) :

1. **Use the theory of differential calculus as a fundamental problem-solving tool.**
2. **Apply the concepts of the derivative and the integral to solve real-world problems and applications.**
3. **Use graphing technology to visualize functions, explore mathematical concepts, and verify results in differential calculus.**
4. **Use sound mathematical writing and appropriate use of numerical, graphical, and symbolic representations to present solutions of mathematical exercises and applications in differential calculus.**

Special accommodations: College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS.

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course.

The student code of conduct is available on the College of the Redwoods website at: http://redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf

Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage.
College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

Textbook: Calculus: Early Transcendentals, 5th Edition by James Stewart (not 7th edition).

Try Amazon. Save a bundle.

The text book is effectively my lecture notes.

Course Equipment: TI-83 Calculator or TI-84 (TI-89 won't work well for our class).

Bring text and calculator on lecture days -- calculator on exam days.

Basis for Grade: *Still under review, may be adjusted.*

25% Daily Quizzes on homework given at the end of class

50% Semester Exams.

25% Final Exam

Grade Scale: Letter grades will be determined based upon the following scale.

A 93% - 100% A- 90% - 92%

B+ 87% - 89% B 83% - 86% B- 80% - 82%

C+ 77% - 79% C 73% - 76% C- 70% - 72%

D 60% - 69%

F Below 60%

Learning Resources: Overview at http://msenux.redwoods.edu/mathdept/courses/math50A.php

Recommended -- Math Lab

Disabled Student Programs and Services

Academic Support Center

The L.I.G.H.T. Center

GUID 145

Placement: Make certain this course is appropriate for your skills and experience.

Modifications and additions to this syllabus will be necessary.

Prerequisites: Make certain this course is appropriate for your skills and experience.

Math 120 is a prerequisite.

Homework/Quizzes, Exams, and Extra Credit

The dates given below are the days the sections are covered in class. The suggested homework could be started on that day in preparation for the quiz the next day of class. The quiz is one point, all or nothing. I may allow access to your homework while taking the quizzes. Quizzes can be made up by getting all 7 problems right on the optimath makeup assignment. You may repeat the assignment as many times as you wish, within the week you are given to complete the quiz makeup. The results are automatically emailed to me.

Extra credit can be obtained after each exam (restoring a portion of the points missed on the exam) by getting 7 out of 7 on each portion of the optimath exam makeup. Generally, one week will be given to complete that option. Also, the single lowest exam score, including a missed exam, will be replace by the next lowest exam score if you complete the optimath options for the exam with the low score.

Additional extra credit exam points can be obtained by doing:

Alcumus -- 1 exam point for each new level in algebra, geometry, or Counting & Probability.

www.brilliant.org -- 1 exam point for each 2000 points accumulated.

Eating pizza with us on a Friday afternoon while working math problems at Pizza & Problems.

The Putnam Exam. 5% added on to your final exam for every point you get.

AMATYC Student Mathematics League Competition, a one-hour exam held in late October.

Links to optimath, Alcumus, brilliant.org, the Putnam, and AMATYC SML are found at:

http://msenux.redwoods.edu/cgi-bin/online/f13/OTportal.cgi

http://www.artofproblemsolving.com/

www.brilliant.org

http://www.math.niu.edu/~rusin/problems-math/

http://www.amatyc.org/?page=SMLPastQuestions

Some of these extra credit option can be quite entertaining, but the easiest way to get points is to do homework and be prepared for quizzes and exams.

Date		Section	Suggested Problems
Aug	26	1.1	15,19,21,23,27,39,41,45,63
		1.2	6,7
		1.3	1,5,27,29,35,45,51,57,63
	28		Class Cancelled
	30	1.4	3,11,15,17,24,27,35
		1.5	1,2,3,11,13,15
		1.6	1,5,7,15,17,19,23,25,27,31,35,37,39,43,47,49,51,53
Sep	2	**Labor Day -- School Holiday**	

	4	2.1	3,5,9
		2.2	1-31 odd,6,39
	6	2.3	
	9	2.4	
	11	2.5	
	13	2.6	
	16	2.7	
	18	2.8	
	20	2.9	
	23	Review	
	25	**Exam 1**	
		Principles of Problem Solving, Pages 80-85	
	27	3.1	
	30	3.2	
Oct	2	3.3	
	4	3.4	
	7	3.5	
	9	3.6	
	11	3.7	
	14	3.8	
	16	3.9	
	18	3.10	
	21	3.11	
		Review	
	23	**Exam 2**	
	25	4.1	
	28	4.2	
	30	4.3	
Nov	1	4.4	
	4	4.5	
	6	4.6	
	8	4.7	
		4.9	
	11	**Veterans Day -- School Holiday**	
	13	4.10	
	15	Review	
	18	**Exam 3**	

	20	5.1
	22	5.2
	25	5.3
	27	5.4
	29	**Thanksgiving Week -- School Holiday**
Dec	2	5.5
	4	Review
	6	Review
	9	**8:30 am - 10:30 am, Final Exam**