

## Syllabus for Differential Calculus – Eureka Campus

<b>Semester &amp; Year</b>	Fall 2016	
<b>Course ID and Section #</b>	Math 50A — E0362 & D0362	
<b>Instructor's Name</b>	Brad Morin	
<b>Day/Time</b>	MTThF 11:40 am - 12:45 pm	
<b>Location</b>	LRC 105	
<b>Number of Credits/Units</b>	4	
<b>Contact Information</b>	<i>Office location</i>	None
	<i>Office hours</i>	By Appointment
	<i>Phone number</i>	None
	<i>Email address</i>	<a href="mailto:brad-morin@redwoods.edu">brad-morin@redwoods.edu</a>
<b>Textbook Information</b>	<i>Title &amp; Edition</i>	Calculus, Early Transcendentals, 5E edition
	<i>Author</i>	James Stewart
	<i>ISBN</i>	0-534-39321-7

### 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

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.
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. Analyze the rate of change of an implicit function using implicit differentiation.
5. Graph functions using methods of calculus.
6. Evaluate a definite integral as a limit

### 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 at 707-476-4280.

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### Academic Support

Academic support is available at [Counseling and Advising](#) and includes academic advising and educational planning, [Academic Support Center](#) for tutoring and proctored tests, and [Extended Opportunity Programs & Services](#), for eligible students, with advising, assistance, tutoring, and more.

### Academic Honesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at: [www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.pdf](http://www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.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 website.

### Disruptive Classroom Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process a disruptive student may be temporarily removed from class. In addition, he or she may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at: [www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.pdf](http://www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.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 website.

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### Emergency Procedures for the Eureka campus:

Please review the campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). The Eureka **campus emergency map** is available at: ([http://www.redwoods.edu/Eureka/campus-maps/EurekaMap\\_emergency.pdf](http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf)). For more information on Public Safety, go to <http://redwoods.edu/safety/> In an emergency that requires an evacuation of the building:

- Be aware of all marked exits from your area and building.
- Once outside, move to the nearest evacuation point outside your building:
- Keep streets and walkways clear for emergency vehicles and personnel.
- Do not leave campus, unless it has been deemed safe by the Incident Commander or campus authorities. (CR's lower parking lot and Tompkins Hill Rd are within the Tsunami Zone.)

**RAVE** – College of the Redwoods has implemented an emergency alert system. In the event of an emergency on campus you can receive an alert through your personal email and/or phones at your home, office, and cell. Registration is necessary in order to receive emergency alerts. Please go to <https://www.GetRave.com/login/Redwoods> and use the “Register” button on the top right portion of the registration page to create an account. During the registration process you can elect to add additional information, such as office phone, home phone, cell phone, and personal email. Please use your CR email address as your primary Registration Email. Your CR email address ends with “redwoods.edu.” Please contact Public Safety at 707-476-4112 or [security@redwoods.edu](mailto:security@redwoods.edu) if you have any questions.

*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.*

Course Equipment: TI-84 Calculator, or TI-83.

I recommend the TI-84 Plus CE, a newer model, well priced.  
Which is also available at Staples.  
Bring text, calculator, and homework on lecture days.  
Bring your calculator on exam days.

Basis for Grade:

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

Quizzes & Homework:

Daily quizzes will be either from or similar to a homework problem.  
I suggest you use a graph paper notebook for doing homework.  
Bring your notebook with completed homework each class period.

Exams:

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

Makeup Exams and Quizzes:

Makeup work will not provide a shortcut to getting an acceptable grade.  
Makeup work will be demanding — an option to be used as a last resort.

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%				

Learning Resources:

**Recommended:** Math Lab — Information available on canvas  
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.

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. Each daily quiz is one point, all or nothing. For each daily quiz, I may ask you to copy an answer from your completed homework, or I may ask you to work out a homework problem, or a slightly modified homework problem, showing your work. You will generally need access to your completed homework while taking the quizzes.

Makeup credit can be obtained by doing select problems on the Art of Problem Solving site. More information on makeup will be given later.

Date	Section	Potential Quiz Problems	— * means extra credit possibilities for exam
Aug 29	1.1	1,15,19,21,23,27,35,39,41,45,63,65	
	1.2	6,7	
30	1.3	1,5,27,29,35,45,51,57,63	
	1.4	3,11,15,17,24,27,35	
Sep 1	1.5	1,2,3,11,13,15	
	1.6	3-19 odd, 23-27 odd, 35-43 odd, 49,51,63,65,67,71	
2	A24	Appendix D — Trigonometry Review	1-37 odds, 45-54 odds, 59-79 odds
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5	<b>Labor Day</b>	<b>CR Holiday</b>	
6	2.1	3,5,9	
	2.2	1-31 odd, 6,39	
8	2.3	1-49 odd	— *57, *59 (I generally don't take class time on starred problems.)
9	2.4	3,5,7,9,15,19,21,23,24,41	— *31,*39
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