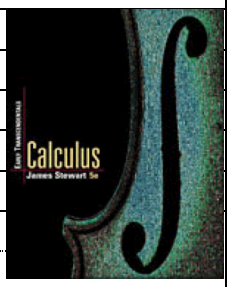
Syllabus for ***MATH-50A-E1146 (041146) Differential Calculus*** – Eureka Campus		
Semester & Year	Spring 2017	
Course ID and Section #	MATH-50A-E1146 (041146) Differential Calculus	
Instructor's Name	Tami Matsumoto	
Day/Time	4 days per week: MTThF 11:40am - 12:45pm	
Location	LRC Room 105	
Number of Credits/Units	4 units	
Contact Information	*Office location*	SC 205-B, upstairs in Science Bldg
	Office hours	Mon 10-11, Wed 2-3, Fri 9-10. Also by chance and by appointment.
	Phone number	707-476-4543
	Email address	tami-matsumoto@redwoods.edu Include "**Math 50A**" as ***part of*** the email Subject line
	Social Media	https://twitter.com/tamimathcr https://www.facebook.com/TamiMathCR
Textbook Information	*Title & Edition*	***Calculus, Early Transcendentals***, 5th edition
	Author	James Stewart
	ISBN	0534393217 (10), 9780534393212 (13)



Course Description

MATH-50A Differential Calculus - (4 units lecture) 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.
Note: A graphing calculator is required.
Letter Grade Only. CSU and UC Transferable. *Prerequisites: Math 25 and Math 30 (or equivalent)*

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.

Academic Suppor

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: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services, and scroll to AP 5500. 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: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services and scroll to AP 5500. 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.

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/aboutcr/Eureka-Map; choose the evacuation map option). For more information on Public Safety, go to http://www.redwoods.edu/publicsafety. 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 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.

Tip Line:
Anyone wishing to make an anonymous report of a crime may use the tip line at 707.476.4555
Or by emailing CRTip@redwoods.edu. See also: http://www.redwoods.edu/Safety/report.asp

Students get Microsoft Office 365 FREE
All CR Students can get OFFICE 365 for *free* -- for PC, Mac, Smartphone, Tablet -- using the @mycr.redwoods.edu email address.

- Go to https://portal.office.com/start?sku=78e66a63-337a-4a9a-8959-41c6654dfb56 (If you get an Error message using the hyperlink, copy and paste the url directly into your browser.)
- Enter "mycr" student email account (e.g., jdoe555@mycr.redwoods.edu)
- Go into student email account; click on the verification link in the Microsoft email.
- The link will take you back to the website and you can download the software at that time, OR access the account at a later time via: https://login.microsoftonline.com

Mathematica:
Mathematica presentations will be given by Professor David Arnold each Wednesday, 4:40-5:30 pm, in SC 214. All faculty, staff, and students are welcome and are entitled to a free version of Mathematica for personal use. See: http://www.redwoods.edu/math/mathematica

Student Services (a partial list of what's available for Eureka students)

- Health Center: http://www.redwoods.edu/eureka/studenthealth/ PE Building 114. 707-476-4149. Spring Semester hours: MTThF 1-5pm & Wed 8:30-4:30 (except 2-5pm on Jan 18; and 1-5pm on Jan 25 & Feb1). Closed Holidays & Breaks. Flu shots available (free for students).
- Security/Public Safety: http://www.redwoods.edu/safety/
  Emergency Line: 476-4111 (Non-emergencies 476-4112)
- Child Development Center: http://www.redwoods.edu/Eureka/CDC/
  Information: 476-4337 or wendy-jones@redwoods.edu
- ASC Tutoring (for all CR students; need not be enrolled in Math Lab): http://www.redwoods.edu/eureka/asc/tutoring.asp
- Testing Center in ASC – for make-up tests, and when certain accommodations cannot be met in the regular classroom: http://www.redwoods.edu/eureka/asc/
- Scholarships – Spring deadline is ***4pm*** **Friday Feb. 3** http://www.redwoods.edu/District/scholarships/
- Math Lab – students must be registered in a Math Lab course to use the Math Lab http://www.redwoods.edu/Departments/Mathematics/MathLab.asp
- DSPS http://www.redwoods.edu/District/dsps/
- EOPS/Care http://www.redwoods.edu/eops/
- TRiO http://www.redwoods.edu/trio/eureka
- Honors Program http://www.redwoods.edu/Departments/Honors/
- Veterans Resource Center http://www.redwoods.edu/vets/

See more at http://www.redwoods.edu/services/

Classes for Academic Support

- Math Lab classes: Math 52 or Math 252 (for students in Math 50B)
- LIGHT Center classes open to all students: GUID 143, 145, 146, 147, 148, 205, 215.
  For information: 476-4290 (Eureka campus)
  NOTE: GUID classes can be taken by any students (even if not DSPS)
- ESL classes such as ESL 211 support academic students. *You can show up to sign up!*

ASCR: Associated Students of College of the Redwoods: http://www.redwoods.edu/ascr/
Some Student Clubs are listed here http://www.redwoods.edu/ascr/organizations.asp

Math 50A Differential Calculus

Information follows in the following sections:

1. About Calculus
2. Materials you will need
3. Course Content Organization
4. Skills to Master
5. Course Requirements
6. Creating Your Own Personal CALCULUS REFERENCE BOOK
7. Homework
8. Grading Information
9. Schedule Information
10. Sources of Math Help

1. About Calculus

cal·cu·lus (/kalkyələs/)
noun

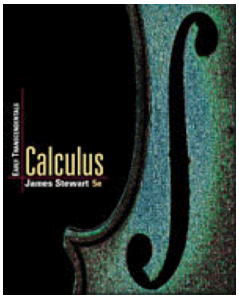
1. the branch of mathematics that deals with the finding and properties of derivatives and integrals of functions, by methods originally based on the summation of infinitesimal differences. The two main types are *differential calculus* and *integral calculus*.
2. MathematicsLogic : a particular method or system of calculation or reasoning.

Calculus is the mathematical study of behaviors of functions – in particular, rates of change and how things change. It really helps to have good algebra skills, because then you can focus on the new ideas and new notation. We will look at functions differently than you have before.

You will need to learn (a la Bloom):

- Knowledge
  - Definitions
  - Types of Functions and visual representations of them
  - Differentiation Methods
- Comprehension
  - How related things compare (similarities, differences)
  - What different things mean or tell us
  - How to interpret summary information
  - How to make predictions based on limited information
- Application
  - How to apply what you know to new situations
  - How to make good use of information
  - How to solve problems, combining together what you have learned
- Analysis
  - How to make inferences from analysis of complex information
  - Recognizing importance and significance of component parts
- Synthesis
  - How to understand a situation and pull together all that you have learned, to reach appropriate conclusions and inferences
- Evaluation
  - How to look back to assess what was done (by you or others) and evaluate the results

2. Materials you will need:



- **Required Text**: ***Calculus - Early Transcendentals***, 5th Edition, by James Stewart - McMaster University, ISBN #0534393217 (with Tools for Enriching Calculus Video CD-ROM and BCA Tutorial). 2003. Brooks/Cole, a division of Thomson Learning, Inc. The text is available in the CR Library and may be checked out for the entire semester. You can also buy your own copy online very inexpensively.
  - **Recommended: <u>Student Solutions Manual</u>** (ISBN 0534393330 / 978-0534393335); **<u>Study Guide</u>** (ISBN 0534393314 / 9780534393311)
- **Graphing Calculator**: A Graphing Calculator, such as a TI-83 Plus, TI-84, or TI-89. A limited number are available **<u>for rent</u>** – in the Math Lab, ASC 101, CR Eureka Campus.
- **Bound Notebook with Grid Paper**: Roaring Spring #77475 or Ampad #26-251 (about $2 - $6), for example. Check to make sure it is **bound** and has **graph paper** in it. You will use this to build yourself a reference book (see the "Reference Book Information" also).

- **Time. Lots!!** In your own weekly schedule, please block out at least 15 more hours *(possibly as much as 20 hours)*, per week, to devote to this class.
- **Supplemental Handouts**. There will be lots of handouts some of which you may have to print yourself. It is your responsibility to make sure that you get a copy of all supplemental material, even if you miss class.

- **Paper**: Homework Paper and scratch paper, lots of it! It is fine with me if you RE-USE paper. Paper that's only been used on one side is still fine (in general) on the other side. You will also need some graph paper. Get it in a pad or a package of loose-leaf sheets (rather than stuck in a notebook), or print it from the web. Many people find it helpful to get graph paper with heavier lines on every fifth line to make counting easier.
- **Pencils**: Lots. Math problems should be done in pencil in this class (as in math classes in general). If you like softer lead (I find it writes darker easier) then you might like "2B" mechanical pencil lead (I prefer "2B" to "HB" which I find not as easy to work with).
- **Erasers**: At least one.
- **A ruler**: Important for drawing tables and graphs carefully and correctly.
- **Computer Access** for:
  - **Email:** I expect you to have regular access to a computer and expect to be able to contact you easily. The College uses your "mycr.redwoods.edu" email address to communicate with you so it is important that you receive those email messages; you can set it up to autoforward those emails to another email address if you prefer (though you should still check it now and then just in case).
  - **Online exploration and course materials**. This is separate from your email but you will need reliable internet access for Canvas and for completing online homework assignments.

3. Course Content Organization:

The material will be grouped into four "Learning Units" with a Unit Exam at the end of each of Units 1, 2, and 3, and a Final Exam at the end of the term, which will be comprehensive. There will also be a "Gateway Exam" after we learn derivatives and the Chain Rule in Chapter 3, "through which" you must pass in order to pass Calculus I. If you cannot pass the "Gateway Exam," given multiple chances, then you are not ready for Calculus II.

- Learning Unit #1: Concepts & Basics: the concepts of function and rate-of-change; and basics of limits and derivatives. – Parts of Chapters 2 and 3
- Learning Unit #2: Details & Depth: formal definitions, theorems, special cases and special methods – Parts of Chapters 2 and 3
- Learning Unit #3: Applications of Derivatives – a little bit of Chapters 2 and 3, plus most of Chapter 4
- Learning Unit #4: Working Backwards: Antiderivatives – the end of Chapter 4 and most of Chapter 5

Unit Exam dates will be announced one week in advance. Tentative dates: Feb. 10, March 10, April 14.

The Final Exam is scheduled during finals week on Monday, May 8, 10:45am-12:45pm.

4. Skills to Master

1. Limits and Continuity
   a) Find the tangent line to the graph of a function as the limiting position of a secant line.
   b) Find the instantaneous rate of change of a function as the limit of the average rate of change.
   c) Determine the limit of a function through descriptive tables and analysis of graphs.
   d) Use limit laws and symbolic manipulation to compute the limits of functions.
   e) Determine the limit of a function using the formal definition of the limit.
   f) Determine the continuity of a function through analysis of its graph and through the use of the formal definition of continuity.
   g) Apply continuity theorems to problems in mathematics and applications.
   h) Use limits that involve infinities to determine horizontal and vertical asymptotes.

2. Differentiation
   a) Use the derivative to determine the instantaneous rate of change of a function.
   b) Use the formal definition of the derivative to compute the derivative of a function.
   c) Use the differentiation laws to compute the derivative of a function symbolically.
   d) Use the chain rule to differentiate compositions of functions.
   e) Use the method of implicit differentiation to determine the derivative of the inverse of a function.
   f) Compute the derivatives of trigonometric, logarithmic, and exponential functions.
   g) Use the method of logarithmic differentiation to compute the derivative of a power function.
   h) Apply the derivative as a rate of change to problems in the natural and social sciences (motion, growth and decay, population ecology, etc.).
   i) Solve applications that involve related rates.
   j) Use the differential to produce a linear approximation of a function.
   k) Calculate higher order derivatives of a function.

3. Graphing functions
   a) Apply the Mean Value Theorem to problems in mathematics and applications.
   b) Use the first derivative test to determine where a function is increasing or decreasing.
   c) Use the second derivative test to determine the concavity of a function.
   d) Apply the first and second derivative tests to determine the extrema of a function.
   e) Apply the Extreme Value Theorem to determine the extrema of a continuous function on a closed and bounded interval.
   f) Use l'Hôpital's rule to find limits and to assist in sketching the graph of a function.

4. Optimization
   a) Create a mathematical model from a word problem. Identify constraints on the model.
   b) Use the various derivative tests to optimize (maximize or minimize) one quantity of the model.

5. Integration
   a) Compute the antiderivative of a function.
   b) Select the antiderivative from a family of antiderivatives that satisfies a given initial condition.
   c) Apply the antiderivative to problems involving motion.
   d) Use a Riemann sum to approximate a definite integral.
   e) Determine the definite integral of a function as the limit of a Riemann sum.

f) Use the Fundamental Theorem of Calculus to evaluate definite integrals.
g) Use the substitution technique to evaluate definite integrals.
h) Find the area under a curve using the definite integral.
i) Demonstrate the fundamental relationship between the derivative and the integral.

5. Course Requirements (*subject to change with fair notice*):

Participation in Class Activities: Attendance and participation are essential to the learning process. In addition, everyone benefits from your input and participation, and some work we do will be in groups! One important aspect of this course is the incorporation of active learning in class; this requires everyone's participation, particularly during in-class activities. Also, the best way to insure having a successful experience in any course is to come to every class meeting and keep up with the assignments. There will often be handouts during class to be turned in at the end of class. If you miss more than four class sessions, you may be dropped from the course.

I realize that sometimes things come up and getting to class is impossible. In those cases, just communicate with me as soon as you possibly can. This is especially important if you are missing class on a day we are scheduled to have an exam!

Note that ALL students remain responsible for ALL assignments given and those assignments are expected to be turned in ON TIME. If you miss a class, the assumption is that you will get the necessary information to complete the assignment by the due date and be prepared to continue in the normal flow of the course.

CAUTION: the material builds from one week to the next and so
IT IS STRONGLY URGED THAT ALL STUDENTS ATTEND ALL CLASSES.

Problem Sets, assigned from the textbook: Problems will be assigned essentially every class. There will be "Practice" problems, "Basic" problems, and "Advanced" problems (see "Homework"). Show your work, and work neatly and legibly. There will not be time for problems to be graded carefully, so it is very important that you check your own work before turning it in, and ask questions if you want to make sure you are on the right track.

Pop Quizzes: There may be pop quizzes. You should always bring a pencil with you to class each day to be ready for a quiz. Bring your reference book (which may be allowed for some quizzes).

Other assignments: There will be some assignments other than problems from the book. Some will be explained on handouts, some will be writing assignments, and some will be done in class. Also you will build your own Math Reference Book throughout the course.

Reference Book: Each student is required to create his/her own personal Math Reference Book throughout the term. It should be made in a bound notebook. It should have a title page at the front, followed by a table of contents. The contents should include material learned in the course. For the most part, it is up to you to decide exactly what to include, though there will be a few items I will direct you to be sure to include. Each page should be one separate topic. Suggestion: as you make entries of your own, note the ***textbook*** page # to refer back to, if needed.

Exams: There will be three exams amid the term and a Final Exam during finals week. The Final Exam will be comprehensive and will be given in two parts: For one part you will be able to refer to your own Reference Book which you will be making throughout the term. About a week before each test you will be given a study guide. You do not need scantrons. You should always bring pencils, erasers, and your Reference Book (for grading) on test days, ***tentatively*** Feb. 10, March 10, April 14, and May 8.

Final exam official date and time: Monday May 8, 10:45am-12:45pm, during finals week.

HELP?! If you have questions, please get help! It is ***your*** responsibility to seek help if you need it. We will go over some questions in class, but we will not have enough time to answer all of everyone's questions.

DUE DATES and LATE WORK: Caveat on "due dates": While we are, by necessity, confined within a certain time framework, it is important to me that you understand the material – given that, if you have made progress on an assignment but are having trouble completing it by the due date, communicate with me to make appropriate arrangements.

6. Creating Your Own Personal CALCULUS REFERENCE BOOK

During the term, you will create your own personal Calculus Reference Book. In your Reference Book, you will write definitions, examples, and instructions of things that we learn in this class. This book will be useful to you throughout this course, and especially in calculus and other science courses you take after this one!
You will be allowed to use your Reference Book on our "Reference Book Quizzes" as well as when you are studying and working on your homework, of course.

- Get a bound notebook with grid paper in it (sometimes called "quad ruled"). Composition books are about $2 to $4 dollars and are sold at the CR and HSU bookstores, Staples, and other places.
- Make a Title Page. The first page of the book should be made into a title page. Create a title for your book, and include identifying information so it could be returned to you if you ever were to lose it.
- Start the Table of Contents. On the top of the **next** page (right side) write "Table of Contents" and reserve the next several pages for your Table of Contents to grow into. Skip at least 4 pages – more if your writing is large or if you anticipate entering particularly detailed information in your "T O C."
- Page 1. The first page that you write actual content information on should be numbered "1".
- Number the following pages. Number the pages, either odd and even on front and back, or you might prefer to number just the right-side pages 1, 2, 3, and so on, leaving the left sides blank at first.
- Enter information regularly as you study and do your homework. Keep just one basic topic on each page, even if you don't fill up every page. The important thing to remember is to make this useful for yourself, so that a year from now (for example), you will be able to find whatever you look for easily.
- As you add information, write corresponding entries in the T O C, listing the number of the corresponding page ***in your reference book*** to the **right** of the T O C entry.
- What to write: At times, I will direct you to include specific information in your Reference Book. Also, as you study, go over your class notes and read corresponding material in the text, synthesize important information and put it into your Reference Book. Definitions and explanations in your own words will be easier for you to understand later. Include examples and pictures, too.

Your Reference Book will be graded several times during the term. Correctness will be spot-checked (due to lack of time – not for lack of interest!). The Reference Books are graded on three areas: completeness, general correctness, and presentation.

7. Homework — *What, When, Why, How?*

There will be a homework assignment associated with essentially each class meeting. In general, work to finish your homework before the next class meeting, but if you have questions, you will be allowed to turn in your homework two classes after it is assigned. Since this could result in overlaps of assignments, you must be very careful to keep your assignments clearly labeled, but this system allows you to ask for clarification, if needed, so that you can then finish up that assignment and still turn it in – and understand it.

The purpose of having you do homework exercises is

(1) to give you practice with a variety of problems, and
(2) to help you to learn to write responses correctly, and
(3) to help you get some feedback so that you know what you are doing right and what you need to improve on.

I will usually assign problems that have answers in the back of the book so that you can check your work as you go along and get help when you need to. Generally, we will go over a few problems in class, but if you still have more questions, then please be sure to seek out help from me or from others, outside of class time.

There will be three categories of homework problems assigned: "Practice," "Basic" and "Advanced." You must do the "Practice" and the "Basic" problems to pass the class, but you only need to do "Advanced" problems if you want a grade above a C.

Here are some very general instructions for how I want you to do your homework:

1. When you turn in your homework, if there are multiple pages, please have them in the correct order. Also do not run the problems into each other – each problem should be clearly marked and easy to find.

2. Label each homework assignment clearly <u>in the center at the top of the page</u> with the assignment number: "HW #1" or whatever number it is.

3. At the top right side of the page, write your name and "Math 50A" and the date.

4. Please use pencil, and erase carefully, when necessary.

5. The "Practice Problems" should be clearly labeled "PP"; they need not be written out carefully; the idea is for you to get a lot of practice doing the problems, and it does not matter what the written work looks like. The "Basic" and "Advanced" problems should be clearly labeled and also done with more care: Label each problem clearly, and paraphrase the question – you do not need to copy all the words of the question exactly as it is in the book, but you should write enough so that anyone looking at it (who does not have the book in front of them) can tell what it was that you were supposed to do.

6. Show your work – do not just turn in a list of answers. Even for most of the "Practice" problems, some intermediate work should be evident.

7. Work down the page – Each problem should be below the one you just did (not next to it), though a two-column format would be fine.

8. Check in the back of the book (B.o.B.) before turning in your work. It is your responsibility to check your work and get help if and when you have questions.

8. Grading information (*subject to change with fair notice*)

	Exams/Quizzes	Reference Book	In-class Assignments	Homework*
For A-/A	At least 85% average	Excellent Reference Book, with all or most topics covered, with corresponding table of contents	At least 90% completed satisfactorily	• At least 90% of "Practice" problems; • at least 90% of "Basic" problems completed in a legible, satisfactory way; • good work done on majority of "Advanced" problems
For B-/B/B+	At least 75% average	Good Reference Book, covering majority of course content with corresponding table of contents	At least 80% completed satisfactorily	• At least 80% of "Practice" problems; • at least 80% of "Basic" problems completed in a legible, satisfactory way; • good work done on at least some "Advanced" problems
For C-/C/C+	At least 65% average	Basic Reference Book has basic topics covered	At least 60% completed satisfactorily	• At least 70% of "Practice" problems; • at least 70% of "Basic" problems completed in a legible, satisfactory way
For D	At least 60% average	Reference Book must have at least one page of content	At least 60% completed satisfactorily	• At least 60% of "Practice" problems; • Majority of "Basic" problems completed in a legible, satisfactory way

For determination of +/- grades, the entire class spread will be considered at the end of the term.

* Homework will include problems from the textbook, along with other handouts and assignments.

9. Schedule Information:

Class meets MTThF 11:40am-12:45pm, starting on January 17 for the Spring 2017 semester.
Class meets in room LRC 105.

Important dates:

- Tuesday, January 17 – First day of class
- Friday, Jan. 27 – Last Day to drop without a "W" on your transcript and receive a refund
- Friday, Feb 3 – CR Spring Scholarship Deadline
- Friday, Feb 17 – No classes (campus offices will be open)
- Monday, Feb. 20 – Campus Closed for ***Washington ("Presidents")*** Holiday
- Thursday, March 2 – Last Day to petition to graduate / receive certificate this semester
- Week of March 13-18 – Spring Break (No Classes)
- Friday, March 31 – Last Day for Student-Initiated Withdrawal (no refund, and get a "W")
- Saturday, April 29 – Humboldt Math Festival, at Adorni Center, Eureka, 12noon-4pm
- Friday, May 5 – Last regular class session
- **Monday, May 8 – Final Exam, 10:45am-12:45pm**

10. Sources of Math Help

If you have questions, please get help! It is your responsibility to seek help if you need it. I will answer some questions in class, but unfortunately, we will not have enough time to answer all of everyone's questions. Some sources of help are:

- Math Tutoring Lab (strongly recommended but not required). Register for Math 52, in either the 1-unit or ½-unit section for this opportunity for drop-in tutoring in the Math Lab during open hours. Math 52 Math Lab is a class you register for on WebAdvisor; it is Credit/No Credit. For 1 unit of "credit" you must have 45 hours of documented attendance by the end of the semester (22.5 hours for 1/2-unit) and complete some modest assignments that help you learn math. You can sign up for ½ -unit and change to 1-unit later if you choose to.
- One-on-one Tutoring: Any CR student can sign up to meet with a tutor in the ASC. Contact the ASC. (You do not need to be registered in Math Lab for this.)
- Tutors in special programs (for example DSPS, EOPS) may be eligible for special services
- Private tutors
- Other students – form study groups. You can contact classmates via discussion forums or email.
- Instructors: You can come to my office during office hours, or by appointment; you can call or email me to connect. Other instructors are willing to help, too, when available.
- Student Solutions Manual (ISBN 0534393330 / 978-0534393335)
- Study Guide (ISBN 0534393314 / 9780534393311)

CAVEAT: The above procedures are subject to change.