Welcome Lynch, Alison
Instructor Grade Management
Click for MATH 150 Cooperative Learning Center (CLC) Hours
MATH 150 Saturday Workshop Schedule
Click here for printer friendly version of syllabus
Course Syllabus: MATH 150 - Calculus I Spring 2017
Course Logistics
Click on instructor's name for contact information and office hours.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Section</th>
<th>Class Number</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>Michael Huerth</td>
<td>MATH 150-01</td>
<td>21198</td>
<td>TR 10:00 - 11:50</td>
<td>045-102</td>
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<td></td>
<td>MATH 150-03</td>
<td>21296</td>
<td>MW 8:00 - 9:50</td>
<td>053-S219</td>
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<tr>
<td>Matthew Jew</td>
<td>MATH 150-05</td>
<td>21825</td>
<td>MW 14:00 - 15:50</td>
<td>506-113</td>
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<tr>
<td>Christopher Lippi</td>
<td>MATH 150-02</td>
<td>21397</td>
<td>TR 8:00 - 9:50</td>
<td>508-1176</td>
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<tr>
<td>Alison Lynch</td>
<td>MATH 150-04</td>
<td>21757</td>
<td>TR 8:00 - 9:50</td>
<td>053-S219</td>
</tr>
</tbody>
</table>

Course Web Page.
http://math.otterlabs.org/math150/ The course web page contains all the information you'll need for the course. This includes all homework assignments, topic schedule, exam review materials and any other information you need.

Important Dates.
- January 23 ~ First Day of Instruction
- February 3 ~ Last day to ADD/DROP courses without petition and a "W" (withdraw) grade for the Fall semester. Warning: If you stop coming to class your instructor will not automatically drop you. You are responsible for withdrawing.
- March 1 (MW Sections) and March 2 (TR Sections) ~ Exam 1
- March 20-24 ~ Spring break ~ No classes
- March 31 ~ César Chávez Day (Friday) ~ Campus Closed
- April 6 ~ Last day to withdraw from a course for serious and compelling reason ("W" grade assigned). Students must submit supporting documentation.
- April 12 (MW Sections) and April 13 (TR Sections) ~ Exam 2
- May 15 ~ Final Exam (comprehensive)

Required Text.
You MUST have the Early Transcendentals version in order to have the right homework problems. Please be sure that you have the right version.

Prerequisite
MATH 130 - Precalculus or equivalent, or a satisfactory score on the Calculus Placement Assessment.

Student Support
Students with Special Needs
Students with disabilities who may need accommodations please see your instructor by the second week of the semester during office hours or contact your instructor. Your instructor's contact information is located on the top page of this syllabus. You should bring your Course Accommodation Form from the CSUMB office for Student Disability Resources (SDR) in Bldg. 47. Contact:
Student Disability Resources
Location: Health & Wellness Services Bldg. 80 (https://csumb.edu/directory/buildings/health-wellness-services)
Voice: (831) 582-3672

https://math.otterlabs.org/math150/?page=syllabus&syllabus=true
Cooperative Learning Center

The Cooperative Learning Center (CLC), formerly known as the Academic Skills Achievement Program (ASAP), is a campus-wide tutoring program free and open to all students providing peer tutoring services and workshops. It seeks to provide high-quality learning assistance in computer technology, mathematics, science, writing, languages and study strategies aimed at enhancing learning needs at all ability levels. The CLC works with students to expand their knowledge and abilities by empowering them to become independent learners. CLC tutors, staff, and faculty work together to design and offer effective, collaborative, and active learning experiences. They provide tutors with the opportunity to develop teaching, leadership, and communication skills. The CLC provides drop-in study halls and semester-long appointments where you can work with a mathematics tutor. Contact https://csumb.edu/clc (https://csumb.edu/clc) for more information.


MATH 150 Tutoring hours in the CLC:

Check with the CLC (https://csumb.edu/clc).

CLC Location: Tanimura & Antle Library, 2nd floor (room 2125)

Center for Student Success (CSS)

CSUMB works to make sure that all students are succeeding in their courses. To ensure that this takes place, if you are falling behind or are missing too many class sessions, you are strongly encouraged to schedule an appointment with the Center for Student Success to create an Academic Success Plan and get back on track. The CSS offers services such as one-on-one support, peer mentoring, and study skills workshops. CSS is located in the Library, 3rd Floor, Suite 3180, 582-3165. See https://csumb.edu/css (https://csumb.edu/css) for more information.

Student Veterans and Active Duty Personnel

Veterans, active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, disabilities) are welcome and encouraged to communicate these, in advance if possible, to the instructor.

Course Expectations

Classroom Expectations

You are expected to arrive prepared and on time to class. You should be ready to actively engage in the classroom material. Participation should include consideration and respectful communication for others and the course. You are also expected to turn off or silence your mobile phone and any other electronic devices during class time — this includes text messaging. Use of the classroom computer stations for purposes outside class content is inappropriate, and you will be asked to turn it off. Use of electronic communication during class for non-class related purposes is not only disruptive to teaching and learning, but is discourteous to your peers and our learning community. You will be asked to leave for the day if you cannot refrain from engaging in such activity.

Student Notification

CSUMB policy establishes email as the primary and official means of communication from California State University, Monterey Bay to students. This includes faculty communication to students and will be used for communication in this course. Students are therefore expected to check their email on a frequent basis. Also look for information on the course web site at: https://math.otterlabs.org/math150/ (https://math.otterlabs.org/math150) The site contains all the information you will need for the course. This includes all homework assignments, topic schedule, lab schedule and any other information you need.

Academic Integrity

Academic integrity is of central importance to an education at CSUMB. The core of this integrity resides in the scholastic honesty of the CSUMB community, and therefore, is the responsibility of all students and faculty to uphold and maintain. Forms of academic dishonesty include: cheating, fabrication, plagiarism, and collusion in any of these activities. We value informal resolution of academic integrity allegations; however, students discovered to have engaged in academic dishonesty will be sanctioned. Each incident and the student's name will be reported to the Judicial Affairs Office.

Cheating. Cheating is an act of obtaining, or attempting to obtain, credit for academic work through the use of a dishonest, deceptive, or fraudulent means. Cheating includes but is not limited to the following:

- Copying, in part or in whole, from another's test or other assessment instrument.
- Submitting work previously presented in another course, if contrary to the rules of either course.
- Using or consulting during an examination, sources or materials not authorized by the instructor.
- Altering or interfering with grading or grading instructions.
- Sitting for an examination by a surrogate, or as a surrogate.
- Any other act committed by a student in the course of his or her academic work, which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.

Plagiarism. Plagiarism is the act of representing the work of another as one's own (without giving appropriate credit) regardless of how that work was obtained, and submitting it to fulfill academic requirements. Plagiarism includes but is not limited to: the act of incorporating the ideas, works, sentences, paragraphs, or parts thereof, or the specific substance of another's work, without giving appropriate credit, and representing the product as one's own work; and representing another's artistic/scholarly works such as musical compositions, computer programs, photographs, paintings, drawings, sculptures, or similar works as one's own.

For more information contact the Judicial Affairs Academic Integrity web site at https://csumb.edu/judicialaffairs/academic-integrity (https://csumb.edu/judicialaffairs/academic-integrity) or see the Academic Integrity Policy at https://csumb.edu/policy/academic-integrity-policy (https://csumb.edu/policy/academic-integrity-policy).

Introduction to the Course

Course Catalog Description

Includes limits, continuity, derivatives including trigonometric functions, chain rule, curve sketching, extremum problems, implicit differentiation, related rates, Mean Value Theorem, logarithmic and trigonometric functions, introduction to integration, fundamental theorem of calculus, substitution, and applications.

Course Audience
MATH 150 is the first of a two-semester sequence in single variable calculus and satisfies the Mathematics Communication University Learning Requirement. It is a required course for Biology and ESTP majors. This course is also the first step towards completion of MLO #1, Foundations and Calculus, for both the mathematics major and minor.

Focus of this Course

We will focus on fundamental elements of calculus and strive to understand functions, rates of change, derivatives, limits, continuity and anti-derivatives. Upon its invention/discovery, Calculus has revolutionized almost every field of science. Through this course, you will come to understand just how essential calculus is in virtually every scientific discipline, from physics to ecology, business to psychology. Over and above this, however, we hope you will begin to understand that the ideas represented in calculus not only helped to shape our understanding of our surroundings throughout history, but also answered some philosophical questions that haunted people for centuries.

Although this class will require a lot of hard work, your efforts will be rewarded. It is expected that every student spend 2 hours outside of class for every scheduled hour in class. This means that you should plan on spending 8 hours a week outside of class on homework, reading your textbook, and thinking about the material from class. Some students find that they need more or less than the recommended 8 hours a week in order to achieve their goals for grades and comprehension in this class.

Course Learning Outcomes.

At the completion of this course, successful students in MATH 150 will be able to do the following:

- Define and explain the following concepts using appropriate mathematical terms and symbols as well as everyday and spoken language: Limits, rate of change, continuity, tangent, the derivative, mean value theorem, chain rule, local and global extrema, Intermediate Value Theorem, concavity, Fundamental Theorem of Calculus, optimization, anti-derivatives, definite and indefinite integrals, Riemann sums, local linearization, first and second derivatives, related rates.
- Be able to calculate: limits (algebraically, graphically, and numerically).
- Take derivatives of the following functions: polynomial, power, rational, trigonometric, inverse trigonometric, logarithmic, and exponential.
- Compute derivatives using: sum and product rule, quotient rule, chain rule, implicit differentiation, and in combination there of.
- Be able to calculate global and local extrema of functions of abstract and practical applications.
- Be able to find the linear approximation of a given function at a point.
- Solve word problems using related rates where appropriate.
- Find elementary anti-derivatives.
- Approximate definite integrals using right and left hand sums.
- Perform integration using various techniques including u-substitution.
- Cultivate an enjoyment of mathematics and the problem solving process.

General Education Area B4 Mathematics Outcomes.

Additionally, MATH 150 is a General Education (GE) course and therefore meets the following GE (Area B4 Mathematics) outcomes:

1. Students solve routine and non-routine problems using tools and arithmetic, algebraic, geometric, and/or statistical methods.
2. Students assess the reasonableness of solutions to mathematical or statistical problems.
3. Students apply, analyze, and represent mathematical or statistical information in symbolic, visual, numerical, and verbal forms.
4. Students recognize and describe the assumptions and limitations of the mathematical or statistical methods they employ.
5. Students use appropriate reasoning and terminology to communicate mathematical or statistical ideas, methods, and results.

Assessment and Grading Policy

MATH 150 is a coordinated course. This means every section will cover the same material, take the same exams and quizzes, and are assigned the same homework.

Calculators: Scientific calculators will be permitted during exams and quizzes. Graphing calculators will not be allowed. Scientific calculators will have trigonometric functions (sine, cosine, etc.) buttons on them.

The CSUMB Mathematics and Statistics Department policy prohibits this course from being given as Credit/No Credit. You will receive a letter grade for MATH 150. Warning: If you stop coming to class your instructor will not automatically drop you. If you unofficially drop this course (stop attending) you will be given a grade of WU (equivalent to an F) if you have completed less than half your course work, and a grade of F if more than half has been completed.

Course Components.

Written Homework (0%)

You will be assigned written homework assignments which will not be collected for a grade. However, you will be expected to be able to do problems similar to the assigned homework problems on the weekly quizzes described below.

Online Homework (Extra-Credit)

You will also be assigned online homework. Information regarding how to access the online homework system will be made available in class.

Many of the homework problems are likely to appear on the midterm exams and the Final Exam. If you have any trouble with any of the homework problems, you are encouraged to come to your instructor's office hours or seek help at the CLC. You are also strongly encouraged to keep up with homework assignments, as this is the best way to learn mathematics.

Quizzes (25%)

Quizzes are usually given weekly and are based on the written and online homework. There are no make-up quizzes. The two lowest quiz grades will be dropped. If you are absent and do not take a quiz, then that quiz will count as one of your dropped quizzes.

Exams (75%)

There will be two in-class exams and a cumulative final, weighted 20%, 25%, and 30% respectively. There are no make-up exams. If you miss an exam for a serious and compelling reason with appropriate documentation, then you need to contact your instructor as soon as possible.

Grading Scale

Below are minimum percentage scores for each letter grade:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Minimum Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>98</td>
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</tbody>
</table>
For example, if your grade as a percent score if 82.2%, then your letter grade would be a B. The instructor reserves the right to adjust the Point Structure and Grading Scale to reflect any changes in the course during the semester.

Syllabus Subject to Change

The course syllabus is subject to change as deemed necessary by the instructor or course coordinator. This includes adjustments to the grading scale and policy to reflect any changes in the course during the semester. Students will be notified of any syllabus changes in a timely manner via email, course announcements and the course web site. Every effort will be made to avoid changing the course syllabus and schedule, but the possibility exists that changes are necessary due to unforeseen circumstances.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Minimum Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>92</td>
</tr>
<tr>
<td>A-</td>
<td>90</td>
</tr>
<tr>
<td>B+</td>
<td>88</td>
</tr>
<tr>
<td>B</td>
<td>82</td>
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<tr>
<td>B-</td>
<td>80</td>
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<td>C+</td>
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<td>C</td>
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<tr>
<td>D</td>
<td>60</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
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