Math 150: Calculus I

Fall 2023: Sections 1 and 2

	Instructor Information		**Course Information**	
Name:	Dr. Christina Durón	**Time**:	MTRF 8:00AM – 8:50AM (Section 1)	
Email:	christina.duron@pepperdine.edu		MTRF 9:00AM – 9:50AM (Section 2)	
Office:	RAC 105	**Location**:	RAC 175	
Office Phone:	(310) 506 – 4832	**Module**:	In-person	

Course Pages:

1. Courses (Required): https://courses.pepperdine.edu

2. Gradescope (Required): https://www.gradescope.com

3. Homepage (Optional): https://cduron.info

Office Hours: Office Hours will be held regularly in RAC 105 on

- Mondays and Fridays: 2:00PM – 3:00PM

- Tuesdays and Thursdays: 10:30AM – 11:30AM

- By appointment

In addition, questions may be addressed through email between 8AM – 5PM (PST) during the academic week (i.e., Monday through Friday). Please allow up to 24 hours for a response, although the instructor will strive to reply promptly. Emails received over the weekend will receive a reply on the first University academic day (excluding any national, state, or University holiday) following the weekend.

Course Materials:

- *Textbook*: The course textbook (electronic or hardcover) is *Calculus: Concepts & Contexts*, 4th Edition by James Stewart. While the textbook is <u>not</u> required, it is an encouraged resource. Should you purchase/rent the textbook, it is important that you *read the sections in addition to attending lectures and doing assigned work*.

- *Calculator*: A graphing calculator is a tool that will be used in this course. Any model in the TI-83 or TI-84 series is recommended. Models that can perform symbolic calculations (also known as CAS) are <u>not</u> allowed on exams and quizzes. CAS models include (but are not limited to) the TI-89, TI NSpire CAS and HP 50g. Students are <u>not</u> allowed to share calculators during quizzes and exams.

- *Software*: For this course, you will need daily access to a device with a reliable internet signal that can:

    - Access Courses.
    - Access Gradescope.
    - Scan and upload written work to Gradescope.
    - View and download PDF documents.

Course Communications: All course materials will be posted on Courses. Email, in-class announcements, and Courses announcements will be the primary methods to communicate course information. It is ultimately the student's responsibility to keep informed of any announcements, syllabus adjustments, or policy changes made during scheduled classes, by email, or through Courses.

Course Prerequisites: The enrollment requirement includes a Math Placement Test score of 22 or higher, or a C− or better in Math 103 and Math 104.

Course Description: Math 150 provides an introduction to first-semester calculus, from rates of change to integration, with an emphasis on understanding, problem solving, and modeling. Topics covered include key concepts of the derivative and definite integral, techniques of differentiation, and applications.

Course Objectives:

1. Demonstrate an understanding of the skills and concepts central to differential and integral calculus in a single variable.

2. Demonstrate the ability to apply appropriate mathematical ideas from single variable calculus to both theoretical and practical contexts.

3. Demonstrate the ability to formulate logical arguments that make use of appropriate mathematical language and notation.

4. Demonstrate the ability to solve problems using the ideas of single variable calculus including the ability to translate problems into mathematical notation and interpret solutions appropriately.

Student Learning Outcomes: Upon completing this course, students should be able to:

1. Demonstrate an increased mastery of logic, algebra, geometry and trigonometry skills.

2. Understand how a sequence of approximations leads to a limiting process.

3. Analyze and interpret the concepts of calculus from graphical, numerical, symbolic and verbal perspectives.

4. Determine the limits of basic functions algebraically, numerically and graphically.

5. Understand the definition and concept of the derivative.

6. Use appropriate techniques to find the derivative of a function.

7. Understand what it means for a function to be continuous, and the relationship between continuity and differentiability.

8. Use the concept of the derivative in applied settings including linearization, related rates and optimization, and interpret the solutions within the context of the problem.

9. Analyze the graphical behavior of a function or a family of functions using the concepts of calculus (e.g., asymptotes, extreme values, monotonicity and concavity).

10. Find antiderivatives algebraically and graphically.

11. Approximate definite integrals using Riemann sums and understand the definite integral as a limit of Riemann sums.

12. Interpret integrals in terms of area or accumulated change.

13. Understand and use the Fundamental Theorem of Calculus.

Relation to Mathematics Program Learning Outcomes: A student who completes a mathematics degree should be able to use appropriate mathematical ideas in applied or real-world contexts.

Relation to Pepperdine's Mission: Pepperdine is a Christian university committed to the highest standards of academic excellence and Christian values, where students are strengthened for lives of purpose, service, and leadership. This course is designed to complement and supplement the overall mission of Pepperdine. Mathematics courses have historically been used to "train the mind" of students, to help students

think more carefully and clearly. In logical preparation and in application of concepts, the study of mathematics helps prepare you for a life of purpose, service, and leadership.

Attendance and Class Participation Policy: Participating in the course and attending lectures and other course events are vital to the learning process. As a result, students are expected to attend each class meeting and to arrive on time and ready to participate in discussion or group work with their peers. Students are responsible for the material covered if they are late or absent. If you are unexpectedly absent for medical or personal reasons, please inform the instructor within 24 hours, if at all possible, and provide a note from the appropriate party (e.g., doctor, Divisional Dean) excusing the absence.

Classroom Behavior Policy: To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a website, making phone calls). Students are asked to refrain from disruptive conversations during lecture. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave lecture or discussion, and may be reported to the Divisional Dean.

Discussion Board Netiquette: Students are expected to regularly engage with the discussion board on Courses throughout the semester by posting thoughtful questions and responses regarding the class material and homework. Posting a solution or asking how to do a problem does not count as a thoughtful post. The discussion board is meant for peer-to-peer communication and will be monitored by both the instructor and class TA; any post that asks how to do a problem, provides a solution, or discusses the problems on the weekly quiz, will be immediately removed. Students are expected to follow netiquette ("internet etiquette") or more simply put, guidelines for communicating online to ensure meaningful and polite exchanges. The common standards listed below work well for online communication:

- **Behavior**: Maintain the same standard of behavior and ethics that you would follow in a face-to-face context.

- **Tone**: Treat others with respect. Be mindful of your tone and how that is conveyed in your writing style. DO NOT USE ALL CAPS. It is considered shouting and not appropriate in a classroom. Avoid sarcasm and irony as it is easily misinterpreted in an online environment.

- **Clarity and Content**: Be succinct. Write, reread, and then post. Carefully consider what you have written. Does it make sense? Is it free from errors? Does it add to the conversation? Is it unnecessarily confrontational or offensive?

- **Contribute**: Online learning is not passive. It is expected that you will share your knowledge and insight. Be an active contributor to the learning community.

- **Be Forgiving**: If someone makes a mistake or does something inappropriate, address it privately and politely. You can always let the instructor know and ask them to address it as well.

Gradescope: Students are expected to create an account with Gradescope, linked to your `@pepperdine.edu` address. If you already have a Gradescope account linked to your `@pepperdine.edu` address, then you do not need to create another account. Students are expected to read the guide for submitting work to Gradescope. To upload your work, log into your Gradescope account, find the course Gradescope page, select the correct assignment, and upload your scanned work as a PDF file. If you cannot find the course Gradescope page, then you may need a course entry code (provided on Courses under Resources).

Assignments and Examinations:

- **Quizzes** will be distributed electronically on Gradescope every Friday, with the exception of midterm examination weeks. Each quiz will be made available at 12AM (PST) and close at 11:59PM (PST) that same day. When a quiz is started, it must be completed on Gradescope within 30 minutes (unless otherwise stated). Each quiz will be worth 5 points. Students may use the textbook, class notes, and a graphing calculator on all quizzes, but peer collaboration and the use of unapproved sources (e.g., generative AI tools, the internet, cell phone) of any kind are not allowed.

- **Homework** will be distributed electronically on Gradescope, based on the problems from the textbook. Students are responsible for completing the online assignments on Gradescope by 11:59PM (PST) on the indicated due date (unless otherwise stated). Work for each problem can be saved online, and the assignment may be submitted an unlimited number of times before the deadline.

  - For a subset of problems (short answer, multiple choice, and select all), you do <u>not</u> need to write up or explain your work. These problems are labelled with [Input], [Multiple Choice], and [Select All] and will be graded on correctness. Gradescope may be sensitive to [Input] questions requiring short answers; for example, if you find your solution results in an integer, such as 2, enter 2 instead of 2.0.

    * Some [Input] questions require a free-response, rather than a short answer. For these problems, you will be asked to explain your work. These problems will be graded on both completeness and correctness.

  - For others, you need to write your solution on a page by itself, and upload it as a separate <u>PDF file</u> to Gradescope (either typed or scanned from handwritten work). *Improperly submitted homework (such as submitting the wrong file type) might not receive credit, as it is time-consuming to remedy.* You should write your solutions to these problems neatly and carefully, and provide full justification for your answers. No credit will be given if the solution is not justified, if the work is illegible, or if the submitted file is corrupted (e.g., cannot be viewed on Gradescope). These problems are labeled with [Upload] and will be graded on both completeness and correctness.

  You are strongly encouraged to work with other students in doing the homework, but the homework turned in must be your own and represent your own thinking and your own work. Turning in the work of others (including that provided by generative AI tools), allowing others to copy your work, or copying from a solutions manual or other source is a violation of Seaver College' Code of Ethics (see your student handbook for more information). This can lead to a lowering of your course grade as well as counting as one of two ethics violations allowed at Seaver College. On each assignment, you will be asked to provide your collaborators.

  Please be aware that checking unsanctioned online sources for solutions is not allowed and may be reported as cheating. In addition, the use of generative AI tools is <u>strictly</u> prohibited; the use of such source will result in an automatic zero on the assignment/assessment and <u>will</u> be reported as cheating.

- An **Art Project** will be assigned as well. The objective of this project is to have you engage with the class's material in a creative, unorthodox manner. By 'Art Project', this implies a true blending of a math concept and an art discipline like drawing, poetry, dance, film, digital, etc. For example, students in the past have created a comic strip describing a story between characters, but the story actually ends up explaining a topic from class.

  This project is <u>not</u> simply:

  - 'math on top of art' (e.g., overlaying the golden spiral on the Mona Lisa)
  - 'art on top of math' (e.g., writing the number $\pi = 3.14\ldots$ in a fun, wacky font)
  - 'building something with mathematical beauty in it' (e.g., no picture-proofs, nice equations)

  Importantly, this project is meant to be a fun assignment that differs in style from the usual assessments – so have fun with it! Since everyone is given all semester to complete this project, there is no excuse for late submissions – all such submissions will be given a zero. More detais will be provided later in the semester, but start thinking now! The following table describes the rubric:

	Mathematical Accuracy	Work Quality	Originality	Effort
3	All mathematical content is accurate and correct. It is presented in a coherent, meaningful manner.	The artwork was beautiful and patiently done; it is as good as hard work could make it.	Work is exceptionally unique, interesting, and detailed. Took creative risks.	The project was continued until it was complete as the student could make it; Shows exceptional planning, effort, and pride.
2	Mathematical content contains only a few, minor errors. It is presented in a mostly coherent, meaningful manner.	With a little more effort, the work could have been outstanding; lacks the finishing touches.	Work is somewhat unique, detailed, or interesting. Shows some developing ideas but without a true sense of originality.	The student finished the project, but it could have been improved with more effort, chose an easy project and did it indifferently. Shows basic planning, effort, and pride.
1	Mathematical content contains either many minor errors or a few major errors. It is presented in a barely coherent, meaningful manner.	The student showed average craftsmanship; adequate, but not as good as it could have been, a bit careless.	Work is occasionally unique, detailed, or interesting. Shows minimal risks taken. Similar to examples given.	The project was completed with minimum effort. Shows minimal planning, effort, and pride.
0	Mathematical content is mostly incorrect. Presentation is largely incomprehensible.	The student showed poor craftsmanship; evidence of laziness or lack of understanding	Work is not unique, detailed, or interesting. Shows no original ideas.	The student did not finish the work adequately. Shows no planning, effort, and pride.

Below are some important dates to keep in mind as you work on your project:

Assignment	Points	Due Date	Format
Pre-Survey –or– Math+Art: Writing Prompt	5	November 13th, 2023	In-class
Group Brainstorming	5	November 13th, 2023	In-class
Proposal Submission	10	November 17th, 2023	Online
Final Project	25	December 8th, 2023	In-class
Post-Survey –or– Math+Art: Writing Prompt	5	December 8th, 2023	In-class

Project Total: 50 points

- **Midterms** will be taken during the class period. Please refer to the calendar for the dates of these four exams. Each exam will be written to be completed within 45 minutes. See the cover page on each exam for specific instructions about the use of notes and technology.

- The **Gateway Exam** will be administered in-class during the semester to test your skills in differentiation. The test will contain 8 – 10 problems and all but one <u>must</u> be answered correctly in order to receive a passing grade. You may retake this test up to four times in order to pass. This policy is to ensure you have mastered the basic material in this course. As we near the date of the exam, more details will be provided.

- The **Final Exam** will take place on Monday, December 11, 2023, at 7:30AM – 10:00AM (**Section 2**) and Thursday, December 14, 2023, at 7:30AM – 10:00AM (**Section 1**) in our regular classroom. The grading policy for the midterm exams will be observed for the final exam. Please visit Final Exams and Schedule of Classes for more information.

    - All students enrolled in the course must take the final exam at the scheduled time. Exceptions are only granted if a student has two exams scheduled at the same time, or three exams scheduled on the same day. Students in these situations are expected to notify the instructor <u>at least</u> three weeks in advance.

- **Participation** is a vital component of class success. Students are expected to keep up with class, engage and participate both in large class discussions and group work, and in general contribute to a sense of classroom community. The participation grade is meant to encourage and reward class-wide (rather than individual) efforts to create a sense of classroom community so that this course can be effective, regardless of course modality. If each of you do all you can every day to participate as you are able, this can be a great course with everyone receiving 100% for participation. However, if you personally stop regularly attending and participating in class (without excused reasons) or if too few students participate for the course to run smoothly and effectively, the instructor reserves the right to implement individual or group participation requirements.

Important Dates:

Last day of Add/Drop period .... August 25, 2023
Withdraw period begins .... August 26, 2023
Last day to change Cr/NC status .... September 5, 2023
Midterm #1 .... **September 21, 2023** (*tentative*)
Last day to withdraw (with W) .... October 17, 2023
Gateway Exam .... **October 17, 2023** (*tentative*)
Midterm #2 .... **November 2, 2023** (*tentative*)
Midterm #3 .... **November 30, 2023** (*tentative*)
Last day to withdraw (with WP/WF) .... December 1, 2023 (by 5PM)
Last day to submit Change of Final Exam form .... December 1, 2023
Final Exam (Section 2) .... **December 11, 2023**
Final Exam (Section 1) .... **December 14, 2023**

Make-Up Exams and Homework Extensions: In general, there will be no make-up exams. However, in unusual circumstances beyond your control, a make-up exam may be given on a case-by-case basis. This may require providing a detailed account of the situation and, if applicable, supporting documents. Approval in these cases is at the sole discretion of the instructor and/or the Divisional Dean.

Homework assignments not turned in by the due date will receive an automatic zero. Extensions may be granted on a case by case basis (a valid reason must be given); all requests must be made at least <u>48 hours</u> in advance of the due date(s); requests made within 48 hours of the due date(s) will not be granted.

Dispute of Grade Policy: Any questions regarding the grading of any assignment, quiz or exam need to be cleared up within <u>one week</u> after the graded item has been returned.

Grading Scale and Policies: Your work in this course will be weighted as follows:

- Participation (3%)

- Quizzes (5%)

- Art Project (2%)

- Homework (10%)

- Gateway Exam (8%)

- Midterm Exams (45%; 15% each)

- Final Exam (27%)

The weighted percentages below correspond to your final letter grade:

A: 93 – 100%	B+: 87 – 89%	C+: 77 – 79%	D+: 67 – 69%	F: 0 – 59%
A−: 90 – 92%	B: 83 – 86%	C: 73 – 76%	D: 63 – 66%	
	B−: 80 – 82%	C−: 70 – 72%	D−: 60 – 62%	

Note: No extra credit or bonus points are offered in this course.

Assistance: I will be available in my office for questions during the posted Office Hours or whenever the door is open. If you need to reach me outside of those hours, please email me to make an appointment. There will be peer tutoring available in the Student Success Center most evenings. See https://seaver.pepperdine.edu/academics/academic-support/student-success-center/departmental-tutoring.htm for details.

Class Expectations: It is my goal to teach you all the material necessary to be successful in this course. In return, I expect that you will show up to class on time and ready to work. We will use calculators for mathematical applications, but I expect that you will refrain from the use of cell phones, tablets or laptops unless instructed otherwise.

In order to make the class more interesting, I will alternate between lectures and group activities. We can only cover all of the material successfully in this way if you make an effort to stay on task. Working in groups is an excellent opportunity to learn from each other. You will know that you have mastered a subject when you can successfully teach that topic to a fellow student.

It is my expectation that you will spend at least two hours outside of class for every hour you spend in class studying and working on homework. If you put in eight hours a week, then you should be able to complete your assignments and study for your exams. If you do this for each class, then a 16 – 18 unit load will give you a 48 – 54 hour work week, which is not unreasonable in many professions.

As students at Pepperdine University, you are expected to approach this class with a Christian attitude. You should be willing to help your fellow classmates understand the material while working in groups or outside of class. Our classroom is a place to ask questions without feeling ashamed or looking foolish. Since your peers are entering this course with a broad spectrum of mathematical backgrounds, you should be patient with others asking questions and encourage one another in love.

As a professor at Pepperdine University, I will approach this class with a Christian attitude, viewing my role as that of a servant, being concerned first for your personal, especially intellectual, development. One of my goals is to build a community that is understanding and encourages one another. I commit to reporting grades that accurately and honestly reflect the level of work done in the class, as described in the paragraphs above.

Student Accessibility: Pepperdine University provides services and accommodationsin accordance with the ADA and section 504 of the Rehabilitation Act. Pepperdine recognizesthat each student is a unique individual and that the effect of a particular disability can vary fromstudent to student. As a result, accommodations are determined through an interactive processwith the student, the Office of Student Accessibility, and medical/mental health professionals.

Any student with a documented disability (chronic medical, physical, learning, psychological, or temporary) needing academic accommodations should contact the Office of Student Accessibility (Student Assistance Center, SAC #105, Phone: (310) 506 – 6500, Email: student.accessibility@pepperdine.edu) as early in the semester as possible. All discussions will remain confidential. For additional information, please visit http://www.pepperdine.edu/student-accessibility/.

Ethics: Academic Integrity is the expression of intellectual virtue in human beings as a result of their creation in God's image. It represents the convergence of the best of the human spirit and God's spirit, which requires personal, private and community virtue. As a Christian institution, Pepperdine University arms that integrity begins in our very created being and is lived out in our academic work. In order for the code to be effective, the community must maintain its health and vitality. This requires a genuine sense of maturity, responsibility, and sensitivity on the part of every member. Each member of the Seaver College community is expected to pursue their academic work with honesty and integrity.

Academic integrity is violated when one of the following events occurs:

- Plagiarism
- Cheating
- Fabrication, or
- Facilitating Academic Dishonesty

For a more detailed description of these violations, see http://seaver.pepperdine.edu/academicintegrity/policies/violations.htm. All violations will be reported and handled according to the Academic Integrity Committee Procedures. In particular, any instance of cheating or plagiarism on an assignment or exam will be reported and result in no credit. As a reminder, the use of generative AI, AI writing, or similar AI tools or services is not permitted in any aspect of this class; the use of such tools will be considered a violation of academic integrity and be reported accordingly.

Course Evaluations: Online course evaluations are conducted for all Seaver College courses and are part of Pepperdine University's commitment to excellence in teaching and learning. The evaluations provide useful feedback that faculty and schools use to improve the quality of instruction. Each instructor receives a compilation of the anonymous responses and comments to use in evaluating their own teaching and planning future courses. Faculty do not have access to course evaluation data until all course grades are posted. The course evaluation period opens at 7AM on Monday, November 27 and closes before final exams begin (3AM on Monday, December 11). To access the online course evaluation system, you may log on directly at https://courseeval.pepperdine.edu/.

Consent to be Recorded: Class sessions may be recorded by the professor using the Zoom recording feature for instructional purposes. Participation in the class during live sessions implies consent to the recording of those sessions. If a student does not wish to be recorded, they must notify the instructor to see if arrangements can be made. If this is not possible for educational reasons, the student may need to enroll in a different course.

Student and Faculty Privacy: In order to safeguard the privacy of all our students and faculty in online learning environments, no individual may record, reproduce, screenshot, photograph or distribute any video, audio, or visual content from an online course. This restriction applies to, but is not limited to, live sessions, recorded lectures, live discussions, and discussion boards. The only exceptions to this policy are the instructional recordings referenced above and one screenshot per meeting/ discussion that faculty may take as a form of attendance. These screenshots may not be shared or used for any other purpose. Any violation of this policy may subject the individual to disciplinary and/or legal action.

Intellectual Property: Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor, are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. Unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or transmitted to any other person. Electronic devices other than laptops (e.g., cell phones, recording devices) are not to be used during lectures or exams without prior permission of the instructor.

All class lectures and materials herein, including but not limited to, pre-recorded and live lectures, live discussions and discussion boards (and recordings thereof), posted course materials, visual materials that accompany lectures/discussions, and virtual whiteboard notes (collectively "Course Intellectual Property") remain the intellectual property of the faculty member or other third-parties. No individual may record, reproduce, screenshot, photograph, or distribute any Course Intellectual Property in partial or full-format

without the permission of the professor. Any violation of this policy may subject the individual to disciplinary and/or legal action.

Subject to Change Statement: Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.

Tentative Schedule:

MONDAY	TUESDAY	THURSDAY	FRIDAY
Aug 21st 1 Course & Gradescope Overview	**22nd** 2 Inst. Rate of Change (Section 2.1)	**24th** 3 Inst. Rate of Change (Section 2.1)	**25th** 4 Exploring Limits (Section 2.2) **Quiz #1 Due on GS** • **Get to Know You Qs** **at 11:59PM (PST)**
28th 5 Calculating Limits (Section 2.3) **HW Due on GS** • **Section 2.1** • **Section 2.2** **at 11:59PM (PST)**	**29th** 6 Continuity (Section 2.4)	**31st** 7 Derivatives and Slope (Section 2.6) **HW Due on GS** • **Section 2.3** • **Section 2.4** **at 11:59PM (PST)**	**Sep 1st** 8 Derivatives and Slope (Section 2.6) **Quiz #2 Due on GS** • **Section 2.1** • **Section 2.2** **at 11:59PM (PST)**
4th 9 NO CLASS *Labor Day*	**5th** 10 The Derivative Function (Section 2.7)	**7th** 11 The Derivative Function (Section 2.7) **HW Due on GS** • **Section 2.6** **at 11:59PM (PST)**	**8th** 12 Second Derivative (Section 2.8) **Quiz #3 Due on GS** • **Section 2.3** • **Section 2.4** **at 11:59PM (PST)**
11th 13 Second Derivative (Section 2.8) **HW Due on GS** • **Section 2.7** **at 11:59PM (PST)**	**12th** 14 Deriv. of Polynomials (Section 3.1)	**14th** 15 Deriv. of Polynomials (Section 3.1) **HW Due on GS** • **Section 2.8** **at 11:59PM (PST)**	**15th** 16 Prod. & Quot. Rules (Section 3.2) **Quiz #4 Due on GS** • **Section 2.6** • **Section 2.7** **at 11:59PM (PST)**

Monday	Tuesday	Thursday	Friday
18th 17 Prod. & Quot. Rules (Section 3.2) **HW Due on GS** • **Section 3.1** **at 11:59PM (PST)**	**19th** 18 Midterm #1 Review	**21st** 19 **MIDTERM #1**	**22nd** 20 Trigonometric Functions (Section 3.3) **HW Due on GS** • **Algebra Review** • **Trig Review** • **Sections 1.1 − 1.3** • **Sections 1.5, 1.6** **at 11:59PM (PST)**
25th 21 Trigonometric Functions (Section 3.3) **HW Due on GS** • **Section 3.2** **at 11:59PM (PST)**	**26th** 22 Chain Rule (Section 3.4)	**28th** 23 Chain Rule (Section 3.4) **HW Due on GS** • **Section 3.3** **at 11:59PM (PST)**	**29th** 24 NO CLASS *Faculty Conference* **Quiz #5 Due on GS** • **Section 2.8** • **Sections 3.1, 3.2** **at 11:59PM (PST)**
Oct 2nd 25 Implicit Differentiation (Section 3.5) **HW Due on GS** • **Section 3.4** **at 11:59PM (PST)**	**3rd** 26 Implicit Differentiation (Section 3.5)	**5th** 27 Inverse Functions (Section 3.6) **HW Due on GS** • **Section 3.5** **at 11:59PM (PST)**	**6th** 28 Inverse Functions (Section 3.6) **Quiz #6 Due on GS** • **Section 3.3** • **Section 3.4** **at 11:59PM (PST)**
9th 29 Logarithms (Section 3.7) **HW Due on GS** • **Section 3.6** **at 11:59PM (PST)**	**10th** 30 Logarithms (Section 3.7)	**12th** 31 Linear Approximation (Section 3.9) **HW Due on GS** • **Section 3.7** **at 11:59PM (PST)**	**13th** 32 NO CLASS *Fall Break*
16th 33 NO CLASS *Fall Break*	**17th** 34 **GATEWAY EXAM**	**19th** 35 Related Rates (Section 4.1) **HW Due on GS** • **Section 3.9** **at 11:59PM (PST)**	**20th** 36 Related Rates (Section 4.1) **Quiz #7 Due on GS** • **Sections 3.5 − 3.7** **at 11:59PM (PST)**

Monday	Tuesday	Thursday	Friday
23rd 37 Maxima and Minima (Section 4.2) **HW Due on GS** • **Section 4.1** **at 11:59PM (PST)**	**24th** 38 Shapes of Curves (Section 4.3)	**26th** 39 Shapes of Curves (Section 4.3) **HW Due on GS** • **Section 4.2** **at 11:59PM (PST)**	**27th** 40 Optimization (Section 4.6) **Quiz #8 Due on GS** • **Section 3.9** • **Section 4.1** **at 11:59PM (PST)**
30th 41 Optimization (Section 4.6) **HW Due on GS** • **Section 4.3** **at 11:59PM (PST)**	**31st** 42 Midterm #2 Review	**Nov 2nd** 43 **MIDTERM #2**	**3rd** 44 Antiderivatives (Section 4.8)
6th 45 Antiderivatives (Section 4.8) **HW Due on GS** • **Section 4.6** **at 11:59PM (PST)**	**7th** 46 Areas and Distances (Section 5.1)	**9th** 47 Areas and Distances (Section 5.1) **HW Due on GS** • **Section 4.8** **at 11:59PM (PST)**	**10th** 48 Definite Integral (Section 5.2) **Quiz #9 Due on GS** • **Sections 4.2, 4.3** • **Section 4.6** **at 11:59PM (PST)**
13th 49 Definite Integral (Section 5.2) **HW Due on GS** • **Section 5.1** **at 11:59PM (PST)** **Pre-Survey/Prompt Due In-Class**	**14th** 50 Evaluating Integrals (Section 5.3)	**16th** 51 Evaluating Integrals (Section 5.3) **HW Due on GS** • **Section 5.2** **at 11:59PM (PST)**	**17th** 52 Fund. Thm. of Calculus (Section 5.4) **Quiz #10 Due on GS** • **Sections 4.8** • **Section 5.1** **at 11:59PM (PST)** **Art Proposal Due on GS**
20th 53 NO CLASS *Thanksgiving Break*	**21st** 54 NO CLASS *Thanksgiving Break*	**23rd** 55 NO CLASS *Thanksgiving Break*	**24th** 56 NO CLASS *Thanksgiving Break*

Monday	Tuesday	Thursday	Friday
27th 57 Fund. Thm. of Calculus (Section 5.4) **HW Due on GS** • **Section 5.3** **at 11:59PM (PST)**	**28th** 58 Midterm #3 Review	**30th** 59 **MIDTERM #3**	**Dec 1st** 60 Limits Involving Infinity (Section 2.5)
4th 61 L'Hopital's Rule (Section 4.5) **HW Due on GS** • **Section 5.4** • **Section 2.5** **at 11:59PM (PST)**	**5th** 62 **Final Exam Review**	**7th** 63 **Final Exam Review** **HW Due on GS** • **Section 4.5** **at *6PM* (PST)**	**8th** 64 **Final Exam Review** **Quiz #11 Due on GS** • **Sections 5.2 – 5.4** • **Section 2.5** • **Section 4.5** **at 11:59PM (PST)** **Art Project and Post-Survey/Prompt Due In-Class**
11th 65 Section 2: **FINAL EXAM** 7:30AM – 10:00AM	**12th** 66	**14th** 67 Section 1: **FINAL EXAM** 7:30AM – 10:00AM	**15th** 68

Note: This calendar is tentative. For up-to-date information, see the course page on Courses.