

Math 1B: Calculus
Summer 2025, CRN 13665, Section 05
Monday to Thursday 10:00 AM to 12:15 PM
Classroom: MLC 113
Class Duration: June 30 to August 7

Instructor Information

Instructor:	Andrew Jianyu Yu
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Office Location:	S76a
Office Hours:	Faculty do not have office hours during the summer. Send me an email for any inquiries.

Course Description

This course examines the fundamentals of integral calculus.

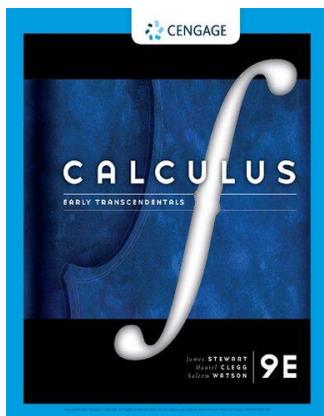
Student Learning Outcomes (SLOs)

1. Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
2. Formulate and use the Fundamental Theorem of Calculus
3. Apply the definite integral in solving problems in analytical geometry and the sciences.

Prerequisite

MATH 1A or MATH 1AH (with a grade of C or better) or equivalent.

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273



Required Textbook

Calculus: Early Transcendentals 9th Edition by James Stewart.

Publisher: Cengage Learning; 9th edition (January 9, 2020); Language: English; Hardcover: 1376 pages; ISBN-10: 1337613924; ISBN-13: 978-1337613927

Item Weight: 5.45 pounds

Dimensions: 8.6 x 1.9 x 10.1 inches

Important Notes: It is not necessary to purchase a hard copy of this book because you will not be asked to solve

textbook problems on paper. The 8th edition is uploaded to "Files" on Canvas.

Graphing Calculator

Graphing calculator is strongly **recommended** for the course. TI-84 Plus or Plus CE is highly recommended. This calculator is widely used in math, science, and engineering courses. You are required to bring a physical calculator to the exam, and sharing calculator is considered as cheating incident. Using the calculator apps on your phone is strictly prohibited on the exam. Do not purchase the TI-Nspire Graphing Calculator (around \$150) because it is too advanced for this course. Instructions will not be provided for TI-Nspire.



Technical Requirements

- **Your Email:** Please check your email regularly. If possible, connect your email with an app in your smartphone. You are welcome to ask me any questions related to lecture, homework, or personal emergency through email. **Please following the format of the subject line stated below.**

“Math 1B 10am: _____”

**You write your inquiry after the colon. For example
Math 1B 10am: Request Extension for Homework 2**

- **WebAssign (Work System):** Homework, quizzes, and exams will be assigned and graded on WebAssign. If an assignment is required to be completed on paper, you are required to scan your work and upload it to Canvas. WebAssign is **not free**. You must pay for your own account before the free trial period ends. Otherwise, you will not be able to complete any assignments until you make a payment. The **first module** on Canvas contains a link to register your WebAssign account and another link to access to WebAssign. Alternatively, you can login WebAssign on your web browser though the link <https://www.webassign.net/>.
- **Canvas (Main Learning Management System):** WebAssign has been integrated to Canvas. Each weekly **module** contains the lecture videos and the weekly assignment. The first module has 3 links – the first link for register your WebAssign account, the second link for accessing WebAssign from Canvas, and the third link for Cengage technical support. There are 2 ways to access an assignment. The first way is to

click on the assignment on Canvas, it will direct you to WebAssign. The second way is to login WebAssign using the link above. **Scores on WebAssign will automatically synchronize to the grade book on Canvas.**

Two lectures in summer are equivalent to 1 week of workload in a regular quarter. You are expected to see 1 set of assignment (1 homework and 1 quiz) per 2 days of lecture.

WebAssign Class Key and WebAssign-Canvas Integration

Use the link in the first module to register your account. Please take the advantage of the free trial and do not pay anything yet. **All purchases are non-refundable. There is no class key** for this course because WebAssign has been integrated to Canvas. Your instructor is not an employee of WebAssign and Cengage. If you experience any technical difficulty on WebAssign, please contact them to speak to a customer representative.

The screenshot shows a Canvas course page with the following items listed:

- Course Name: Su25 MATH D001B Calculus Ii 05 Yu 13665 10am
- Cengage WebAssign
- Cengage Technical Support
- Cengage Student Dashboard/Instructor Center
- eBook for StewartCleggWatsons Calculus Early Transcendentals
- Companion Site

Red arrows point from callout boxes to the 'Course Name' and 'Cengage WebAssign' items.

Course Name

access WebAssign
or go to
www.webassign.net

Canvas

There are a few places that you have to visit frequently on Canvas.

- **Modules**
Each weekly module shows the notes and homework of that week.
- **Grades**
Scores will be transferred from WebAssign to Canvas. Instructor will update the grade book weekly.
- **Files**
Notes, books, and syllabus
- **Discussion**
If we want to have a discussion regarding any topics, we will do this in the Discussion tab.
- **Announcement**
Emergencies, date change, change of plans

Mandatory Attendance

This is an in-person course, attendance will be taken in every in-person meeting. Students who missed 3 or more meetings will be dropped from the course.

Scanning Your Paperwork for Online Exams

Other than homework, you have to show your work for all in-person online exams. Use one of the options below to upload your work to Canvas for credits. For either option below, number the problem and the page. For example, a grader can easily tell the problem number, the content of the problem, and all the steps you wrote to reach to the final answer. If an application problem has long problem statements, or a problem provides a very complicated graph (e.g. three-dimensional image), it is not necessary to copy the problem statements or the graph.

1. If you have a scanner, scan all the pages, save them as **one PDF document**, and upload the file to Canvas.
2. If you do not have a scanner, download the free app called **Genius Scan – PDF Scanner App** (five stars over 938k reviews). Take a picture of each page, use the app to merge all the pictures into **one PDF documents**, and upload the file to Canvas.



NOTE: Points will be deducted if you upload multiple images.

Homework & Discussion, 10% of the Course Grade

Problems will be assigned from each section taught in lecture. You are required to finish most of the homework on WebAssign. For written assignments, you have to scan your work, merge all the images into one PDF document, and submit to Canvas.

For in-class discussion: students will be solving problems in groups, instructor will stop by each group to answer or ask questions. Points will be awarded based on the answers and participation.

For other discussion: topics will be posted on Canvas's "Discussion", follow the directions and write your response. These free-response discussions have no right or wrong answer. To receive full credits, you must reply to one other student's discussion.

The due date of all the assignment follows the U.S. Pacific Standard Time (PST).

Quiz & Pop Quizzes, 20% of the Course Grade

In-person quizzes will be given in during a lecture. Quiz topics will be announced in advanced.

You are expected to complete online quizzes on WebAssign/Canvas. Quiz is an individual assignment. You are required to do your own work. Group-work is strictly prohibited.

A random pop quiz may be given at the last 10 to 15 minutes of a lecture. Pop quiz is based on the materials covered within that lecture. You are allowed to use any notes to take the pop quiz. Be aware that pop quizzes are individual work. Since pop quizzes and time-sensitive, make-up assignment is not available.

Midterm, 40% of the Course Grade (Two Midterms)

Expected exam dates: Midterm 1 July 14th; Midterm 2 July 28th

Every student is required to take the exam in class. The table below is a summary of exam policies.

Final Exam, 30% of the Course Grade

Last day of class: August 7th during the regular class period

Every student is required to take the exam in class. The table below is a summary of exam policies.

In-person Online Exam Policies	In-person Written Exam Policies
(1) Bring one device only (either a laptop or a tablet) (2) Bring paper to show your work (3) I will either collect your work or ask you to submit your work to Canvas (4) Lockdown browser will be enforced	Exam will be typed and printed You will get a physical copy of the exam Workspace will be provided in the exam You write your work on the exam paper and turn in your work.
You are allowed to carry the following items to the exams: (1) For midterms, you are allowed to bring 3 sheets (6 pages total, front of back) of notes. The size of the paper is 8.5 inches by 11 inches. The notes can be typed or handwritten. (2) For the final exam, you are allowed to bring 5 sheets of notes. The other requirements are mentioned in (1).	
Sharing calculator, tablet, or laptop is strictly prohibited and considered as cheating. All the exams are individual work. Students who cheat, plagiarize or help someone else cheat will be given a zero on the exam, and this zero is irreplaceable, meaning that it will count toward your course grade.	

Last Submission Policies

- Every student can extend the due date of **one homework**.
- Every student can extend the due date of **one quiz**.
- Scores earned using additional attempts will be counted as zeros.
- The last homework and the last quiz cannot be extended.
- Your one-time extension must be redeemed within 3 days after the due date. For example, if homework 1 is due on October 1st at 11:59pm, the deadline to request an extension is October 4th at 11:59pm.
- All the written assignment cannot be extended.
- Midterm cannot be rescheduled or extended.
- Final exam cannot be rescheduled or extended.

Check Points:

- Homework & Discussion 10%, Quiz & Pop Quiz 20%, Midterm 40%, Final 30%; Zero credit to all the late and missing work, no exception.
- For in-person online exams, you must show all your work on paper and submit your work to Canvas. The score does not count toward your course grade if your work is missing.
- You are expected to check the due dates on your WebAssign account at least once a day to plan accordingly. Also, you are expected to check our Canvas page to see announcements and week module regularly.
- Comparing to homework, you will have at most 3 attempts on exams. Please solve the problems on a separate sheet of paper and double-check your work before submitting your answer to WebAssign. Additional attempts will not be granted for any reasons.

Tutoring at the Student Success Center (SSC)

The Student Success Center (SSC) provides free math tutoring services in-person and online. Please visit the following website for details and schedules.

<https://www.deanza.edu/studentsuccess/>

Grading Rubrics

Your course grade will be assigned in the following standard:

A: 100% to 93%	A-: 92% to 90%	
B+: 89% to 86%	B: 85% to 83%	B-: 82% to 80%
C+: 79% to 75%	C: 74% to 70%	
D: 69% to 60%	F: below 60%	

All the cut-offs are not negotiable. For examples, 89.8% is not an A-minus and 69.8% is not a C. Transferring to UCs, CSUs, top-ranking universities, or scholarships are not a reason to ask for a higher grade.

Extra Credit Assignment

There are no extra credit assignments in this course to improve your grade. Please do not ask for any.

Academic Integrity

Academic dishonesty will not be tolerated. Any student attempting to defraud the instructor on a quiz, exam, final exam, or any other assessment item designated as an individual assignment will receive a zero on that assignment. This score is irreplaceable. If a cheating incident is detected on your work, the rest of your works in the course will be closely monitored and examined. All the assistant seekers and assistant providers will be reported to the college. *For example, bringing a quiz or an exam problem to a tutor is considered as cheating. Posting a quiz or an exam problem to websites such as Chegg, Course hero, or a forum is considered as cheating.*

Course Content

Chapter 5: Integrals

Section 5.1: Areas and Distances

Section 5.2: The Definite Integral

Section 5.3: The Fundamental Theorem of Calculus

Section 5.4: Indefinite Integrals and the Net Change Theorem

Section 5.5: The Substitution Rule

Chapter 6: Applications of Integration

Section 6.1: Areas Between Curves

Section 6.2: Volumes

Section 6.3: Volumes by Cylindrical Shells

Section 6.4: Work

Section 6.5: Average Value of a Function

Chapter 7: Techniques of Integration

Section 7.1: Integration by Parts

Section 7.2: Trigonometric Integrals

Section 7.3: Trigonometric Substitution

Section 7.4: Integration of Rational Functions by Partial Fractions

Section 7.5: Strategy for Integration

Section 7.6: Integration Using Tables and Computer Algebra Systems

Section 7.7: Approximate Integration

Section 7.8: Improper Integrals

Chapter 8: Further Applications of Integration

Section 8.1: Arc Length

Section 8.2: Area of a Surface of Revolution

Section 8.3: Applications to Physics and Engineering

Section 8.4: Applications to Economics and Biology

Section 8.5: Probability

Chapter 9: Differential Equations

Section 9.1: Modeling with Differential Equations

Section 9.2: Direction Fields and Euler's Method

Section 9.3: Separable Equations

Section 9.4: Models for Population Growth

Academic Calendar:

June 30: First day of class

July 4: Independence Day (no class)

July 6: Last day for drop with refund; last day to drop without a W

July 7: Census date (for instructor only)

July 30: Last day to drop classes with “W”;

Please double-check with the register office to confirm this date. This is the Wednesday of Week 5. I am unable to find this date anywhere online.

please [read the important notes below](#) regarding the withdrawal policy. To withdraw from this class, go to portal where you register this class, change the status from “registered” with “withdraw”. After you are done, please double-check your status.

Important Note: It is student’s responsibility to drop or withdraw the class if that student decides not to finish the class. After the last day to withdraw is passed, student cannot withdraw from the class.

For Instructors Only:

Grades must be submitted by Wednesday, August 13th, by midnight

The professor reserves the right to make changes to the syllabus, including project due dates and test dates (excluding the officially scheduled final examination), when unforeseen circumstances occur. These changes will be announced as early as possible so that students can adjust their schedules.

Student Learning Outcome(s):

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

Office Hours:

M,T,W,TH 2:45 PM - 4:00 PM

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