Math 1C: Calculus
Summer 2020, CRN 13100, Section 61Z
This is an online course.

Instructor Information

Instructor:	Andrew Jianyu YU
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Office Location:	E37 (E Quad, Room 37)
Office Hours:	Instructors are not required to hold office hours in summer.

Course Description

Infinite series, lines and surfaces in three dimensions, vectors in two and three dimensions, parametric equations of curves. Derivatives and integrals of vector functions.

Prerequisite

MATH 1B or MATH 1BH (with a grade of C or better) or equivalent.

## Required Textbook (One Book Only)

Calculus: Early Transcendental, by James Stewart, 8th Edition; Book Length 1368 pages; ISBN-10: 9781285741550, ISBN-13: 978-1285741550, ASIN 1285741552; Publisher: Cengage Learning; Publication date: February 4th, 2015
This textbook is a full version, which contains chapter 1 to chapter 17. It is sufficient for the entire calculus sequence. Math 1A covers chapters 1, 2, 3, and 4. Math 1B covers chapters 5, 6, 7, 8, and 9. Math 1C covers chapter 11, 12, and 13. Math 1D covers chapter 14, 15, and 16.
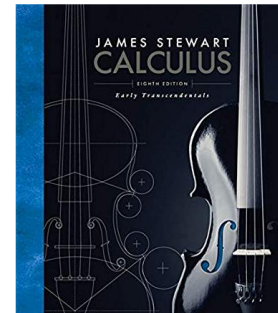
Multivariable Calculus: Early Transcendental, by James Stewart, 8th Edition; Book Length 624 pages; ISBN-10: 9781305266643, ISBN-13: 978-1305266643; Publisher: Cengage Learning; Publication date: June 15th, 2015
This textbook contains chapters 12 to 17 of the full Calculus version, which is only sufficient for Math 1C and 1D.
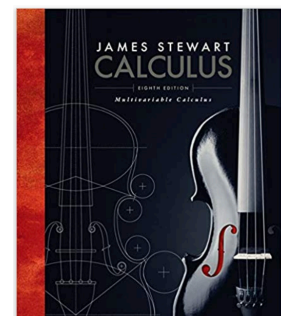
Calculator

Graphing calculator is **optional but recommended** for the course and the entire Calculus sequence. You may rent a TI-83 Plus in the bookstore for about $20 per semester/quarter.

TI-83 Plus   TI-84 Plus   TI-84 Plus CE   TI-Nspire

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. <u>Do not</u> 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.
  Subject line of my emails "Math 1C: _____"
- **Canvas (Main System):** Lecture notes, announcements, and grades can be found on Canvas. This is the main learning management system in this course. You are expected to check Canvas in a regular basis to keep up with the course.
- **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 account is not free, but there is a free trial period. Please register your account and enroll to this course using the free trial (usually 15 days) period and pay the full price after the free trial ends.

WebAssign Class Key and Self-Enrollment

Go to www.webassign.net to register for your account. Please take the advantage of the free trial and do not pay anything yet. All the purchases are non-refundable.

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All the homework, quizzes, and exams will be held on WebAssign. If you are still on your free trial, pay the full price before the deadline. Otherwise, you will be removed from the system.

Scanning Your Paperwork

If an assignment is expected to finish on paper, you have to download the assignment from Canvas, print the assignment, and completed the assignment. If you do not have a scanner at home, use a free app called Genius Scan. It allows you to take pictures of your work and merge multiple pictures into one PDF document. *Submitting multiple pictures is not allowed. Points will be deducted if you do so.*

Asynchronous Lectures and Expected Preparation

All the lectures will be recorded in advanced and posted on my YouTube channel called "**Lemon Math**". All the lecture videos will be stored in a **playlist** called "**Integral Calculus: Parametric Equations, Series, & Vectors**". If you wish, click "subscribe" to see the latest update of the videos. If you have any questions regarding the lecture, send me an email and I will response to your email as soon as possible.

Canvas

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

- **Modules**

  An individual module will be created for each week. Inside each module, you will see the overview and content of that week, all the lecture videos that I want you to watch, and assignments that I want you to complete.

- **Files**

  If I want to share lecture notes, tables, or any documents with you. The documents will be posted on the Files tab. At this point. The syllabus is posted on Files.

- **Discussion**

  If we want to have a discussion regarding any topics, we will do this in the Discussion tab.

Attendance

The course is in a virtual mode. You are expected to maintain a good self-discipline to finish the assignments on time because late works will receive no credits.

Homework, 15% 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. If an assignment is required to be written on paper, you have to scan your work, merge all the images into one

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PDF document with multiple pages, and submit to Canvas. The lowest
homework score will be dropped at the end of the course.

Quiz, 20% of the Course Grade

A quiz will be assigned and graded on WebAssign at the due date of every
homework. All the quizzes are open-book and open-notes. Quiz is an individual
assignment. You are required to do your own work. Group-work is strictly
prohibited. The lowest quiz score will be dropped at the end of the course.

Midterm, 35% of the Course Grade (Two midterms in this course)

All the midterms will be assigned and graded on WebAssign. Midterm date will
be announced in advanced. All the midterms are open-book and open-notes.
Midterm is an individual assignment. You are required to do your own work.
Group-work is strictly prohibited. Dropping the lowest scare is not applicable
on midterms. If you seek for assistances to complete the exam, your exam
score is zero and you will get an F in this course.

Final Exam, 30% of the Course Grade

A comprehensive final exam will be assigned and graded on WebAssign.
Although this is also an open-book and open-notes exam, you must do your
own work. Group-work is strictly prohibited. If you seek for assistances to
complete the exam, your exam score is zero and you will get an F in this
course.

Tutoring at the Student Success Center (SSC)

The Student Success Center (SSC) has moved services into virtual rooms
via Zoom for all forms of tutoring and workshops. Please visit the following
website for details.
https://www.deanza.edu/studentsuccess/

Policy Check Point:

1. The due dates follow the United States Pacific Standard Time (PST). If
   you are taking this course outside PST zone, please check the difference
   between the two time zones.
2. You are expected to check the due dates on your WebAssign account at
   least once a day to plan accordingly. Summer courses concentrate 11
   weeks into 7 weeks, so there are many assignments with a short due
   dates, be aware.
3. Your instructor do not negotiate due dates and do not accept late work,
   especially sending late work through email for credits.

Grading Rubrics

Your course grade will be assigned in the following standard:

A: 100% to 92%	A-: 91% to 90%	
B+: 89% to 86%	B: 85% to 82%	B-: 81% to 80%
C+: 79% to 74%	C: 73% to 70%	
D: 69% to 60%	F: below 60%	

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.

Topics To Be Covered in This Course:
- Parametric Equations & Polar Coordinates
- Infinite sequences and series
- Vectors and Geometry of Space
- Vector Functions

If you decide not to finish this course, it is your responsibility to do the drop or withdrawal before the deadline. If you do not take any actions and do not turn in any assignments, you will receive an F at the end of this course.

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):

*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
*Apply infinite sequences and series in approximating functions.
*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.