Math 1D Course Syllabus CRN 30331, Section 07Y



Math 1D: Calculus Winter 2023, CRN 30331, Section 07Y Monday to Thursday 10:30 AM – 11:20 AM Friday: Asynchronous meeting online, lecture videos will be posted on Canvas Classroom: MLC 260

#### Instructor Information

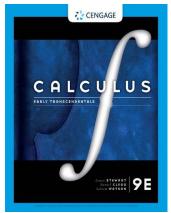
Instructor:	Andrew Jianyu Yu	
Email:	yujian@fhda.edu	
Office Location:	E37 (E Quad, Room 37)	
Office Hours:	Monday to Thursday: 11:20 to Noon Please see me right after class so we do not need to walk back to E37.	

#### **Course Description**

Topics in this course include partial derivatives, multiple integrals, vector calculus, and their applications.

#### Prerequisite

MATH 1C or MATH 1CH (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 Transcendental 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.

Math 1D Course Syllabus CRN 30331, Section 07Y **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. <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. Please following the format of the subject line stated below.

# "Math 1D:

## You write your inquiry after the colon. For example Math 1D: 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 <a href="https://www.webassign.net/">https://www.webassign.net/</a>.
- **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

# Math 1D Course Syllabus CRN 30331, Section 07Y

click on the assignment on Canvas, it will directs you to WebAssign. The second way is to login WebAssign using the link above. **Scores on WebAssign will automatically roll over to the grade book on Canvas.** At least one homework and one quiz will be assigned weekly. It is strongly recommended that you check your WebAssign account frequently because late assignments will count as no credits.

#### 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. **Make sure your name on WebAssign matches yourofficial name on Canvas.** Note, if you have a name that you preferred to be called but this name is not in the school system, do not use it on WebAssign. **Please capitalize the first letter of your first and last name. For example,type "Andrew" instead of "andrew". Your instructor is not an employee of WebAssign. If you experience any technical difficulty on WebAssign, please contact them to speak to a customer representative.** 

#### 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.
- 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, and etc

### Attendance

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

# Math 1D Course Syllabus CRN 30331, Section 07Y

## Scanning Your Paperwork For Online Quizzes and Exams

Other than homework, you have to show your work for all online quiz and exam problems. 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 starts 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.

# Quiz & Pop Quizzes, 15% 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. 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

#### Math 1D Course Syllabus Win CRN 30331, Section 07Y that pop quizzes are individual work. Since pop quizzes and timesensitive, there is no make-up pop quizzes.

Every homework and quiz score counts. Lowest score will not be dropped. Every student has one chance to receive one extension on homework and one extension on quizzes without penalties. This extension does not apply to midterms, final exam, and the last homework/quiz. More importantly, your one-time extension must be redeemed within 7 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 8th at 11:59pm.

The incident of falsifies information for financial aid is increasing in every school district. If you do not complete the first week's assignment or having no activities on Canvas, you will be dropped from the course.

#### Midterm, 40% of the Course Grade (4th and 8th week)

The exam will be assigned and graded on Canvas. Every student is required to take the exam in class. Please bring your fully charged tablet or laptop to class. You are allowed to bring 3 sheets (6 pages total, front of back) of notes. The notes can be typed or handwritten. 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 a failing grade in the course.

## Final Exam, 35% of the Course Grade Thursday, March 30th, from 9:15 AM to 11:15 AM

The final exam will be assigned and graded on Canvas. Every student is required to take the exam in class. Please bring your fully charged tablet or laptop to class. You are allowed to bring 6 sheets (12 pages total, front of back) of notes. The notes can be typed or handwritten. 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 a failing grade in the course.

For Quizzes, Midterms, and Final You must upload all your written steps to Canvas; otherwise, your score does not count toward your course grade.

# Math 1D Course Syllabus CRN 30331, Section 07Y

# Late Submission = Zero Credit; Every Score Counts

Late submissions are not acceptable, and there is no exception. Do not ask for any extensions. Every score counts, and your lower score in all types of assignments mentioned above will **not** be dropped.

# **Check Points:**

- Homework & Discussion 10%, Quiz & Pop Quiz 15%, Midterm 40%, Final 35%; Zero credit to all the late and missing work, no exception.
- For quizzes, midterms, and final, 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 quizzes and 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) has moved services into virtual rooms via Zoom for all forms of tutoring and workshops. You can also get free math tutoring services in-person.

Please visit the following website for details and schedules. <u>https://www.deanza.edu/studentsuccess/mstrc/</u>

# **Grading Rubrics**

Your course grade will be assigned in the following standard:

A: 100% to 94%	A-: 93% 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% is not an A-minus and 69% is not a C. Transferring to UCs, CSUs, top-ranking universities, or scholarships are not a reason to ask for a higher grade.

#### Math 1D Course Syllabus CRN 30331, Section 07Y **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 14: Partial Derivatives

- 14.1: Functions of Several Veriables
- 14.2: Limits and Continuity
- 14.3: Partial Derivatives
- 14.4: Tangent Planes and Linear Approximations
- 14.5: The Chain Rule
- 14.6: Directional Derivatives and the Gradient Vector
- 14.7: Maximum and Minimum Values
- 14.8: Lagrange Multipliers

Chapter 15: Multiple Integrals

- 15.1: Double Integrals over Rectangles
- 15.2: Double Integrals over General Regions
- 15.3: Double Integrals in Polar Coordinates
- 15.4: Applications of Double Integrals
- 15.5: Surface Area
- 15.6: Triple Integrals
- 15.7: Triple Integrals in Cylindrical Coordinates
- 15.8: Triple Integrals in Spherical Coordinates
- 15.9: Change of Variables in Multiple Integrals

Math 1D Course Syllabus CRN 30331, Section 07Y Chapter 16: Vector Calculus 16.1: Vector Fields 16.2: Line Integrals 16.3: The Fundamental Theorem of Line Integrals 16.4: Green's Theorem 16.5: Curl and Divergence 16.6: Parametric Surfaces and Their Areas 16.7: Surface Integrals 16.8: Stokes' Theorem

16.9: The Divergence Theorem

#### Academic Calendar:

January 9: First day of winter quarter January 16 (Monday): Martin Luther King Jr. Holiday - no classes January 21: Last day to add classes January 22: Last day to drop classes without a W February 17-20: President's Holiday – no classes This affects our Friday and Monday. March 3: Last day to drop classes with "W"; 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. March 27 to 31: Final exams **For Instructors Only:** January 23rd (Monday): Census Day

Grades must be submitted by Wednesday, April 5th, 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):

\*Graphically and analytically synthesize and apply multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision. \*Use double, triple and line integrals in applications, including Graph's Theorem, Stellag'

\*Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.

\*Synthesize the key concepts of differential, integral and multivariate calculus.

#### Office Hours:

M,T,W,TH 11:20 AM 12:00 PM In-Person,By Appointment E37 T,TH 06:00 PM 06:30 PM In-Person E37