Math 1B Course Syllabus CRN 24174, Section 03Y Fall: 2022

Monday-Thursday 10:30 AM to 11:20 PM, Room # G7 and Friday TBA

Instructor Information:

Instructor:	Neelam R Shukla
Email:	shuklaneelam@fhda.edu
Office Location:	Via Zoom

Homework assignments must be completed on WebAssign. The due dates follow Pacific Standard Time (PST). If you are living outside of this time zone, please find out the difference. For example, 7AM in California is 10AM in New York.

Course Description:
Fundamentals of integral calculus focusing on integration, integration techniques, applications of integration, and differential equations.
Prerequisite: Math 1A or Math 1A Honor Note: This class is not open to students with credit in Math 1B Honor Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273

Required Textbook:
Calculus: Early Transcendental **9th Edition** by James Stewart.

Important Notes*: You will register WebAssign via canvas and you will get access to the e-book along with. It is not necessary to purchase a hard copy of this book because you will not be asked to solve textbook problems on paper. For self-study you can use any edition 8th or 9th.*
Graphing calculator is 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.

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

- Your Email: Please check your email regularly. If possible, cTechnical Requirements 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 "

  You write your inquiry after the colon.
- WebAssign (Work System): Homework, quizzes will be assigned and graded on WebAssign or Canvas. Exams will be on campus. 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 via canvas. Otherwise, you will not be able to complete any assignments until you make a payment.
- Scanning Your Paperwork
- If an assignment is expected to finish on paper, you must 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.
- Lectures and Expected Preparation.
- Attend the lectures in Class and via zoom on Friday. Please take a couple minutes to explore the modules on Canvas. Students are expected to take. Most importantly, this is a transferred-level math course. Do not expect your instructor to explain all the homework problems in lectures. When you encounter problems that require profound thoughts and interpretation, think before you ask. Each weekly module has links to your weekly assignments (homework, Labs), including exams.

Canvas:

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

- Modules
- Homework Assignments
- Discussion

Attendance

The course is hybrid mode. You are expected to maintain a good self-discipline to attend the classes and to finish the assignments on time because late works will receive10% deductions.

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.

Quiz, 25 % of the Course Grade:

A quiz will be assigned and graded on WebAssign or Canvas. Quiz is an individual assignment.

Lowest score will be dropped. Students can request auto extension for homework it does not apply to midterms, final exam. 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.

There are 3 exams in this course, exams will be in class. Exam date will be announced in advanced. If you seek for assistances to complete the exam, your exam score is zero and you will get an F in this course, you can use one paper with formulas written on it during the exam or quiz.

Labs: 5%

Final Exam, 15% of the Course Grade.

A comprehensive final exam: Thursday day Dec 15,2022, time9:15 am-11:15 am Room# G7

Check Points:

- Homework 15%, Quiz 25%, Exams 40 %, Labs 5%; Final 15 %; Zero credit to all the missing quizzes and. Exams,10% deduction to late other assignments.
- 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.
- 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, 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. Please visit the following website for details and latest announcements. https://www.deanza.edu/studentsuccess/

Grading Rubrics:

Your course grade will be assigned in the following standard:

A: 100% to 93%	A-: <93% to 90%	
B+: <90% to 86%	B: 86% to 83%	B-: <83% to 79%
C+: <79% to 74%	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.

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. *Posting a quiz or an exam problem to websites such as Chegg, Course hero, or a forum is considered as cheating.*

Course Content

Week 1: Chapter 5: Integrals Section	5.1: Areas and Distances Section 5.2: The Definite Integral Section 5.3: The Fundamental Theorem of Calculus Section Online video lecture for review and formulas of the week	
Week 2:	5.4: Indefinite Integrals and the Net Change Theorem section 5.5: The Substitution Rule Online video lecture for review and formulas of the week	**HW Due Wed(5.1-5.3)**
Week 3: Chapter 6: Applications of Integration Section	Review 6.1: Areas Between Curves Section 6.2: Volumes Section Online video lecture for review and formulas of the week	**Tuesday: In class Quiz1(Chap5)** **HW Due Wed (5.4,5.5)**
Week 4:	6.3: Volumes by Cylindrical Shells Section 6.4: Work Section 6.5: Average Value of a Function Online video lecture for review and formulas of the	**Exam 1 Tuesday (Chap 5,6.1,6.2)** **HW due Mon(6.1,6.2)**

	week	
Week 5: Chapter 7: Techniques of Integration	Section 7.1: Integration by Parts Section 7.2: Trigonometric Integrals Section. Online video lecture for review and formulas of the week	**HW due Mon(6.3-6.5)** **Quiz 2 Tuesday (Chap 6)**
Week 6:	7.3: Trigonometric Substitution Section 7.4: Integration of Rational Functions by Partial Fractions Section Online video lecture for review and formulas of the week	**HW due Mon (7.1-7.2)**
Week 7:	7.5: Strategy for Integration Section 7.6: Integration Using Tables and Computer Algebra Systems Section Online video lecture for review and formulas of the week	**HW due Mon (7.3-7.4)** **Exam 2 Thursday (6.3-7.4)**
Week 8:	7.7: Approximate Integration Section 7.8: Improper Integrals. Review Online video lecture for review and formulas of the week	**HW due Monday (7.5,7.6)**
Week 9: Chapter 9: Differential Equations Section	9.1: Modeling with Differential Equations Section 9.2: Direct Fields and Euler's Method Section Online video lecture for review and formulas of the week	**HW due Monday (7.7,7.8)** **Quiz 3 Tuesday (Chapter 7)**
Week 10:	9.3: Separable Equations Section 9.4: Models for Population Growth.	**HW due Monday (9.1,9.2)** **Quiz 4 (Chapter 9)**
Week 11:	Review Review for final exam	**HW due Monday (9.3,9.4)** **Exam 3 Tuesday (Chapter 8&9)**
Week 12: Final exam		**Thursday day Dec 15,2022, time9:15 am-11:15 am Room# G7**

Important Days:

Fall classes begin Sep 26
Last day to add classes Oct 8
Last day to drop classes without a W. Oct 9
Veterans Day holiday – no classes; offices closed. Nov 11
Last day to drop classes with a W. Nov 18
Thanksgiving holiday – no classes; offices closed Nov 24-27

Final Exams Dec. 12-16, Thursday day Dec 15,2022, time9:15 am-11:15 am Room# G7

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:

Zoom	M	05:00 PM	06:00 PM
Zoom	M	06:00 PM	07:00 PM
Zoom	W	06:00 PM	07:30 PM

These are the office hours for both of the statistics classes.