MAT 193 Calculus II, Section 01, CN 42638 Fall 2023

Class meets MWF 1:00 PM - 2:25 PM in SBS B203.

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office hours: Monday, Wednesday: 11:00 AM – 12:30 PM, Friday: 10:00 AM – 11:20 AM, or by appointment.

Course Description: MAT 193, Calculus II, covers Chapters 1-3 from the textbook: techniques and applications of integration, sequences and series, power series, Taylor series.

Text: CLP-2 Integral Calculus, by Joel Feldman, Andrew Rechnitzer, Elyse Yeager, available online at http://www.math.ubc.ca/~CLP/

Objectives: After completing MAT 193 the student should be able to:

- Use more advanced techniques of integration such as integration by parts or integration by trigonometric substitution to evaluate common integrals without the use of tables.
- Apply theory of integration in finding volumes of solids, work, centers of gravity and average values of functions.
- Attain good working skills, with the aid of graphing calculators, in obtaining approximate values of definite integrals.
- Test for convergence or divergence of sequence and series, find interval of convergence for power series and represent functions as Taylor series.

Prerequisites: MAT 191 or equivalent with a grade of "C" or better.

Grades: Grades will be based on three full period written examinations (60% total), a comprehensive final examination (25%), and quizzes, homework and (possibly) other assignments (15%) for the remainder. The exact grading system for your section is the following:

No makeup examinations will be given. The exams are taken in class and graded on Gradescope. If you must miss an examination for a legitimate reason, discuss this, in advance, with me, and I may then substitute the relevant score from your final examination for the missing grade. Each of the **three exams** will be graded on a 0-20 scale, then the sum of the scores is denoted by E.

Homework will be due in principle every week, the day before quiz days, and each homework is worth 10 points. Each week one of the problems from the homework due for that week will be selected and graded on a scale from 0 to 4. The remaining 6 points will be awarded for completeness of the homework assignment. Submitting solutions copied from the back of the book will bring little or no credit, since copying solutions will not prepare you for answering questions on exams. The average of all homework scores is denoted by H. Homework will be submitted as a pdf on Gradescope. There is no need to match the pages with the problems when submitting the homework, see https://www.youtube.com/watch?v=u-pK4GzpId0

Gradescope can be accessed from the link your Canvas course, and you can practice submitting your work on Gradescope using the assignment called Submission practice, which will remain open throughout the semester. No late homework will be accepted.

15 minutes quizzes will be given in principle every week, and will be graded on a scale from 1 to 5. The average of the quizzes scores is denoted by Q. Each quiz will consist of one problem, similar but not necessarily identical to one of the homework problems assigned for that week. The quiz will be taken in class and graded in class and on

Gradescope. No makeup quizzes will be offered.

The problems on the final exam will be similar to problems assigned as homework throughout the semester, the exam will be graded out of a maximum possible 25 points; the score is denoted by F. The final exam will be taken in class and graded on Gradescope.

Extra credit opportunities will be announced in class.

To determine your **final grade**, compute E+H+Q+F. The maximum is 100, and the grade will be given by the rule:

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A: 93-100; A-: 90-92; B+: 87-89; B: 83-86; B-: 80-82 C+: 77-79; C: 73-76; C-: 70-72; D+: 67-69; D: 60-66; F: Less than 60.
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You will be able to follow your progress in the class in Canvas under Grades throughout the semester.

Accommodations for Students with Disabilities: California State University, Dominguez Hills adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with temporary and permanent disabilities. If you have a disability that may adversely affect your work in this class, I encourage you to register with Student disAbility Resource Center (SdRC) and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Please note: no accommodation may be made until you register with the SdRC in WH D-180. For information call (310) 243-3660 or to use telecommunications Device for the Deaf, call (310) 243-2028.

Academic Integrity: The mathematics department does not tolerate cheating. Students who have questions or concerns about academic integrity should ask their professors or the counselors in the Student Development Office, or refer to the University Catalog for more information. (Look in the index under "academic integrity".)

Tentative schedule and homework assignments

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M 8/28:
              1.7 Integration by parts: 1,3,5,7,9,11,13,15,17,19,21,23
              1.7 Integration by parts: 2,4,6,8,10,12,14,16,18,20,22
W 8/30:
F 9/1:
              1.8 Trigonometric Integrals: 1,3,5,7,9,11,13,15,17,19,21,25,27,29
M 9/4:
              Labor Day
              1.8 Trigonometric Integrals: 2,4,6,8,10,12,14,16,18,20,22,24,26,28
W 9/6:
F 9/8:
              1.9 Trigonometric Substitution: 1,3,5,7,9,11,13,15,17,19,21
M 9/11:
              1.9 Trigonometric Substitution: 2,4,6,8,10,12,14,16,18,20,22
              1.10 Partial Fractions: 1,3,5,7,9,11,13,15,17,9,21,23
W 9/13:
              1.10 Partial Fractions: 2,4,6,8,10,12,14,16,18,20,22,24
F 9/15:
M 9/18:
              1.12 Improper Integrals: 1,2,3,6,9,11
              1.13 More Integration Examples: 1,3,5,7,9,11,13,15,17,19,21
W 9/20:
F 9/22:
              1.13 More Integration Examples: 2,4,6,8,10,12,14,16,18,20,22
M 9/25:
              Review
              Exam 1
W 9/27:
F 9/29:
              1.5 Areas between Curves: 1,3,5,7,9,11,13,15,17
M 10/2:
              1.5 Areas between Curves: 2,4,6,8,10,12,14,16,18
W 10/4:
              1.6 Volumes: 1,3,5,7,9,11,13,15,17,19,21
F 10/6:
              1.6 Volumes: 2,4,6,8,10,12,14,16,18,20,22
M 10/9:
              2.1 Work: 1,3,5,7,9,11,13,15,17,19
W 10/11:
              2.1 Work: 2,4,6,8,10,12,14,16,18
              2.2 Averages: 1,3,5,7,9,11,13,15,17,19
F 10/13:
M 10/16:
              2.3 Center of Mass and Torque: 1,3,5,7,9,11,13,15,17
              2.3 Center of Mass and Torque: 2,4,6,8,10,12,14,16,18
W 10/18:
              2.4 Separable Differential Equations: 1,3,5,7,9,11,13,15,17,19,21
F 10/20:
              2.4 Separable Differential Equations: 2,4,6,8,10,12,14,16,18,20,22
M 10/23:
              Review
W 10/25:
F 10/27:
              Exam 2
              1.11 Numerical Integration 1,3,5,9,11
M 10/30:
W 11/1:
              3.1 Sequences: 1,3,5,7,9,11,13,15,17,19
F 11/3:
              3.1 Sequences: 2,4,6,8,10,12,14,16,18,20
              3.2 Series: 1,3,5,7,9,11,13,15,17,19,21,23
M 11/6:
W 11/8:
              3.2 Series: 2,4,6,8,10,12,14,16,18,20,22,24
F 11/10:
              Veterans Day
M 11/13:
              3.3 Convergence Tests: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33
W 11/15:
              3.3 Convergence Tests: 2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32
F 11/17:
              3.4 Absolute and Conditional Convergence: 1,3,5,7,9,11,13,15
M 11/20:
              3.4 Absolute and Conditional Convergence: 2,4,6,8,10,12,14
M 11/22:
              3.5 Power Series: 1,3,5,7,9,11,13,15,17,19,21
F 11/24:
              Thanksgiving Break
              3.5 Power Series: 2,4,6,8,10,12,14,16,18,20,22
M 11/27:
W 11/29:
              3.6 Taylor Series: 1,3,5,7,9,11,13,15,17,19,21,23,25
F 12/1:
              3.6 Taylor Series: 2,4,6,8,10,12,14,16,18,20,22,24
M 12/4:
              Review
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Final examination: Monday, December 11, 1:00 PM - 3:00 PM.

M 12/6:

F 12/8:

Exam 3

Final review

Important Dates:

August 28, Monday, Classes Begin

August 28-September 15, Monday-Friday, Late Registration and Add/Drop via MyCSUDH – fees due 48 hours after registration

September 4, Monday, Labor Day Holiday - NO CLASSES, CAMPUS CLOSED

September 8, Friday, Instructor Drop Deadline

September 15, Friday, Fall 2023 Graduation Application Deadline - with late fee

September 16-21, Saturday-Thursday, Late Registration and Add/Drop via MyCSUDH – fees due at time of registration

September 21, Thursday, Credit/No Credit and Audit Grading Deadline

September 21, Thursday, Fall Convocation

September 22, Friday, Last Day to Drop from FT to PT Status with Refund

September 22, Friday, Drop Without Record of Enrollment Deadline via Change of Program Form

September 22, Friday, Student Census

September 23-November 17, Saturday-Friday, Serious and Compelling Reason Required to Withdraw

October 1, Sunday, Spring 2024 Graduation Application Deadline – without late fee

October 16-February 21, Monday-Sunday, Spring 2024 Registration via MyCSUDH

October 20, Friday, The Great California ShakeOut at 10:20 a.m.

October 24-December 19, Tuesday-Tuesday, Winter 2024 Registration – fees due at time of registration

October 26, Thursday, Last Day for Pro-rata Refund of Non-Resident Tuition and Tuition fees

November 1, Wednesday, First day to file for Summer 2024 Graduation

November 10, Friday, Veterans Day - Observed - NO CLASSES, CAMPUS CLOSED

November 11, Saturday, Veterans Day Holiday - NO CLASSES, CAMPUS CLOSED

November 20-December 8, Monday-Friday, Serious Accident/Illness Required to Withdraw

November 23, Thursday, Thanksgiving Day Holiday – NO CLASSES, CAMPUS CLOSED

November 24-26, Friday-Sunday, Thanksgiving Break, not a Holiday – NO CLASSES, CAMPUS CLOSED

November 27-February 15, Monday-Thursday, Spring Intersession 2024 Registration – Pell Grant eligible students

November 27-May 21, Monday-Tuesday, Spring Intersession 2024 Registration - Students Not Using Pell Grant

December 8, Friday, Last Day of Scheduled Classes

December 9-15, Saturday-Friday, Final Examinations

December 9, Saturday, Grade Submission Begins

December 18, Monday, Evaluation

December 19, 3 p.m., Tuesday, Final Grades Due (College of Continuing and Professional Education grades always due 72 hours after course end date)

December 19, Tuesday, Spring 2024 Graduation Application Deadline – with late fee

December 19, Tuesday, Semester Ends