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| Instructor | VINH THANH NGUYEN | | | | | | | | |
| E-mail | nguyenvinh2@fhda.edu | | | | | | | | |
| Class Location and Time | MLC260 – TTh 1:30 pm – 3:45 pm | | | | | | | | |
| Office Hours | MTWTh: 1:00 pm – 1 :30 pm in S55, and F: 10:00 am – 11:00 am (appointment only) | | | | | | | | |
| Questions? | Please email me and identify yourself and the course you are enrolled in if you have any questions, and I will respond to your email within 24 hours. Otherwise, please resend. | | | | | | | | |
| Textbook | Calculus-Early Transcendental, 9 th edition, by James Stewart. | | | | | | | | |
| Course Description | Fundamentals of differential calculus. | | | | | | | | |
| Course SLO | Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision. Evaluate the behavior of graphs in the context of limits, continuity and differentiability. Recognize and decide on the appropriate method for solving applied real-world problems in related rates, optimization and approximation. | | | | | | | | |
| Required Materials | The textbook, a scientific calculator, and a notebook. | | | | | | | | |
| Course Prerequisites | Mathematics 32 or Mathematics 32H or Mathematics 43 or Mathematics 43H (with a grade of C or better); or appropriate score on Calculus Placement Test within the past calendar year. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. | | | | | | | | |
| Method of Instruction | In class lectures | | | | | | | | |
| Attendance: | This class is an in-person class. Students are expected to attend all classes on time. Students who are absent more than four times may be dropped from the class. However, it is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the deadline will not be considered by the instructor. | | | | | | | | |
| Evaluation Process | Final Grade in this course will be determined as follows: <table> <tr> <td>Homework</td> <td>180 pts</td> </tr> <tr> <td>Quizzes (4 out of 5)</td> <td>120 pts</td> </tr> <tr> <td>Tests</td> <td>300 pts</td> </tr> <tr> <td>Final Exam</td> <td>200 pts</td> </tr> </table> Grading scale: | Homework | 180 pts | Quizzes (4 out of 5) | 120 pts | Tests | 300 pts | Final Exam | 200 pts |
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|-----------|------|
| [744,800] | “A” |
| [720,743] | “A-” |
| [696,719] | “B+” |
| [664,695] | “B” |
| [640,663] | “B-” |
| [616,639] | “C+” |
| [560,615] | “C” |
| [480,559] | “D” |
| Below 479 | “F” |

The top two scores in class that are above 784pts will receive A+.

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| Homework | Homework is the key to success in this class. If you submit your homework late, you will lose your points. Plan for minimum of TWO HOURS to do homework for each class lesson. In the course schedule, I have included a list of suggested homework problems from each section. You are responsible for solving at least of the suggested problems. You are responsible for knowing how to solve ALL the problems. There is a direct correlation between your level of confidence with the homework problems and your success in this class. |
| Quizzes | There will be <u>in class or take-home quizzes</u> . Each quiz is worth 30 points. Quizzes will be given randomly at any part of the class period. There are no make-up quizzes . A missed quiz for any reason (including coming late or leaving early) will count as a zero. |
| Midterms | THREE midterm examinations will be given on the midterm exam day (see the schedule below.) No makeup exams. If you miss a midterm due to what I consider an emergency and you provide appropriate documentations, I will replace that one grade with your final. If I don't consider your reasoning as an emergency, you will receive a zero for that midterm. Each exam is worth 100 points. You are only allowed to use scientific calculators on the midterm day and 1 front page of note. The lowest midterm score will be dropped. |
| Final Exam | One comprehensive examination will be given from 9:15 AM – 11:15 AM on Thursday . (This is school |

scheduled final exam time. It cannot be changed by the instructor.) **Any students who miss the final will receive an F grade for the course.**

Withdrawal Policy

- The last day to drop class without a W is on Oct 6th, 2024.
- The withdrawal deadline for the quarter is on Tuesday Nov 15th, 2024. If students withdraw before this date, they will receive a “W”. After this date, an “F”.

Academic Honesty and Discipline Policy

Students are expected to abide by the college code of conduct. All work turned in is to be the student’s own. Students giving or receiving help on a test or quiz will forfeit all points for the assignment or may be withdrawn from the course with a grade of “F”. For take home assignments, any student turning in a work, which is the same or similar of another student, will be required to schedule a conference to discuss the matter with mem and any evidence of cheating will result in no points for that assignment and will be reported for further action.

Disabled Services

Students who have been found to be eligible for accommodation by Disability Support Services (DSS), please follow up to ensure that your accommodation has been authorized for the current quarter. If you are not registered with DSS and need accommodations, please go to <https://www.deanza.edu/dsps/dss/>

Tips for Success

- “DO NOT PROCRASTINATE”
- If you ever have any questions, email me! You are welcome to send an email whenever you need help!
- Visit the Online Tutoring Center.
- Get to know your classmates and study together.
- Copy the notes from all lectures, participate in class, practice to do your homework.
- Read the sections to be discussed in class prior to the lecture.
- Again, seek help if you are feeling behind the class.

Homework Problems: This is the tentative one. I will change it throughout the quarter. I recommend doing ALL the problems from the textbook.

| DATE | SECTION | PROBLEMS |
|---------------|----------|--|
| Week 1 | Syllabus | |
| 09/23 - 09/27 | 2.1 | 1,3,5,7 |
| | 2.2 | 1-5,7,11,12,13,15,17,19,21,27,29,31,33 |
| | 2.3 | 1-5,7,11-30,33,35,37,39,40,41,45,47,49,51 |
| Week 2 | Quiz 1 | Quiz 1 will be on Tuesday Oct 1 st . |
| 09/30 - 10/04 | 2.5 | 3,5,7,9,13,15,17,19,21,23,25,27,31,33,35,37,39,41,43,45,47,49,51,59 |
| | 2.6 | 1,3,5,7,9,13,15-36,37,41-44,47,53 |
| | 2.7 | 1-15 odd, 17,19,25-37 odd, 41,51 |
| Week 3 | Quiz 2 | Quiz 2 will be on Tuesday Oct 8 th . |
| 10/07 - 10/11 | 2.8 | 1,3,5,7,11,14-17,21,23,27,31,33,41,43,45,49,51 |
| | 3.1 | 3-32,33,35,39,45,51-54,57,61 |
| | 3.2 | 3-27,29,31,33,37,39,41,43,45,47,51 |
| Week 4 | Test 1 | Test 1 will be on Tuesday, Oct 15 th . |
| 10/14 - 10/18 | 3.3 | 1-17,21,25,27,29,31,33,39,41,43,45 |
| | 3.4 | 9,10,11,12,15,17,19,23,25,29,31,33,35,37,39,41,47,49,51,53,59,63,65,69,71,74 |
| Week 5 | | |
| 10/21 - 10/25 | 3.5 | 5-21,23,25,29,31,33-36,39,41,45-53 odd, 59,61 |
| | 3.6 | 2-23,25,27,31,33,37-48,49,53 |
| | 3.9 | 1,3,5,7,9,11,15,17,19,21 |
| Week 6 | Quiz 3 | Quiz 3 will be on Tuesday, Oct 29 th . |
| 10/28 - 11/01 | 3.10 | 1,3,5,7,8,11,13,15,17,19,23,25,27,33,35 |
| | 4.1 | 3-7, 9-15 odd, 19,21,23-25,27-37 odd, 41,43,47,49,53-61 odd, |
| | 4.2 | 1,4-6,8,11,13,15,17,19,21,23 |
| Week 7 | Quiz 4 | Quiz 4 will be on Tuesday, Nov 5 th . |
| 11/04 - 11/08 | 4.3 | 1-6,11,15-17,19-21,30-33,35,39,45,47 |
| | 4.4 | 5-64 |
| | 4.5 | 1,5,7,11,13,17,19,23,31,33,37,39,41 |
| Week 8 | Test 2 | Test 2 will be on Tuesday, November 12 th . |
| 11/13-11/15 | 4.7 | 3,5,7,9,11,15,19,21,25,27,29,31,33,37,39,47,53,57,59,61,67,69,73 |

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| Week 9 | | |
| 11/18 - 11/21 | 4.8 | 4-8,10-13,15,17,21 |
| | Review | |
| Week 10 | | |
| 11/25 - 11/27 | Test 3 | Test 3 will be on Tuesday November 26 th . |
| | 4.9 | 5-26 odd, 29-54 odd |
| Week 11 | | |
| 12/02 -12/06 | Quiz 5 | Quiz 5 will be on Tuesday December 3 rd . |
| | 10.1 | 11-21 odd, 33,37 |
| | 10.2 | 1,3,5,7,9,11,15,17,19,21,23 |
| | Review | |
| Dec 10 th Tuesday | Final | 1:45 pm – 3:45 pm |

Student Learning Outcome(s):

- Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
- Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
- Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours:

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| M,T,W,TH | 12:55 PM | 01:25 PM | Zoom,Canvas,Email,In-Person,By Appointment S55 | |
| F | 10:00 AM | 11:00 AM | By Appointment,Zoom | |
| T | 11:30 AM | 12:20 PM | In-Person | S-74D |
| TH | 11:30 AM | 12:20 PM | Zoom | |
| M,W | 11:30 AM | 12:20 PM | In-Person | S-55 |