

MATH 241: Calculus I (3 Credits)
Leeward Community College, Spring 2020
CRN: 55704

Class Website: krystinmg.com/spring2020/math241

Instructor Information

Name: Krystin Manguba-Glover
(Professor MG)

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Office Hours:

- Wednesday 10:30-11:30a
- Tuesday/Thursday 3:30-5:30p

Office hours will be held until the last day of instruction. Additional times available by appointment.

Textbook Information

Calculus, Third Edition

Authors: Briggs, Cochran, Gillett, Schulz

MyMath Lab Course ID: manguba-glover82556

This term we are participating in the IDAP program. The cost of your materials will automatically be charged to your student account at a deeply discounted price. You are responsible for paying for charges applied to your student account. Please see this web page for frequently asked questions concerning IDAP: www.bookstore.hawaii.edu/lcc/site_IDAP.asp

Catalog Course Description

Introduces and develops basic calculus concepts and procedures: limits, continuity, derivatives, and an introduction to integration of single-variable algebraic and trigonometric functions. Derivations of algorithms and formulas, and proofs of important theorems, are included. Applications of differentiation and integration are introduced to bridge theory and practice. Prerequisites: C or better in MATH 140, C or better in MATH 140X, or appropriate MATH placement.

Student Learning Outcomes (SLOs)

Upon successful completion of Math 241, a student should be able to:

- Choose and apply appropriate formulas or algorithms to compute limits.
- Analyze graphs, tables and formulas in order to identify continuous and discontinuous functions.
- Choose and apply appropriate formulas or algorithms to find derivatives.
- Interpret derivatives in the context of increasing and decreasing functions, relative and absolute minimums and maximums, the mean value theorem, and graphing.
- Solve application problems involving differentiation.
- Calculate definite and indefinite simple integrals, including those that involve substitution.
- Solve application problems involving integration.
- Select and correctly utilize precise mathematical language and symbols to effectively communicate procedures and results.

Homework

Homework problems (both online and written) will be assigned after each class period. Written homework will be due every Wednesday and online homework will be due every Sunday unless stated otherwise. You must show all of your work on written problems in order to get credit.

It is encouraged that you do practice problems on your own. Answers to odd exercises can be found in the back of the book. You may work together on homework but the final product needs to be your own work.

Exams

There will be three written exams given throughout this course: two midterms and a final. Exams will be closed book and without calculators. The final exam will be cumulative. Here are the tentative exam dates:

Midterm 1: Monday, March 2

Midterm 2: Monday, April 20

Final Exam: Monday, May 11

Practice problems will be given out before each exam. You should understand the concepts covered, not memorize problems. Understanding is key in receiving a good grade.

If you miss an exam due to a legitimate and properly documented absence, the following exams will be weighted more to account for the missed exam. (For example if you miss midterm 1 then midterm 2 and the final exam will be worth 10% more each.)

Late Work

No late homework will be accepted. Legitimate absences with proper documentation can result in an assignment being excused with approval from the instructor. For the exam policy, see the above section.

Grading

20% Written Homework

10% Online Homework

20% Midterm 1

20% Midterm 2

30% Final

Each category above will be curved. After the curve, final grades will be assigned based on the standard 10% grading scale (90+ is an A, 80–89 is a B, etc.). The lowest two weekly assignments (one online, one written) will be dropped.

Academic Dishonesty

Academic dishonesty cannot be condoned by the University. Such dishonesty includes cheating and plagiarism (examples of which are given below) which violate the UH Student Conduct Code and may result in expulsion from the University.

Cheating includes but is not limited to giving unauthorized help during an examination, obtaining unauthorized information about an examination before it is administered, using inappropriate sources of information during an examination, altering the record of any grades, altering answers after an examination has been submitted, falsifying any official University record, and misrepresenting the facts in order to obtain exemptions from course requirements.

Plagiarism includes but is not limited to submitting any document, to satisfy an academic requirement, that has been copied in whole or part from another individual's work without identifying that individual; neglecting to identify as a quotation a documented idea that has not been assimilated into the student's language and style, or paraphrasing a passage so closely that the reader is misled as to the source; submitting the same written or oral material in more than one course without obtaining authorization from the instructors involved; or dry-labbing, which includes (a) obtaining and using experimental data from other students without the express consent of the instructor, (b) utilizing experimental data and laboratory write-ups from other sections of the course or from previous terms during which the course was conducted, and (c) fabricating data to fit the expected results.

Kako'o 'Ike (KI) Program

Leeward Community College abides by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which stipulate that no student shall be denied the benefits of an education "solely by reason of a handicap." Students with documented disabilities who believe that they may need accommodations in this class are encouraged to contact the Coordinator of the Kako'o 'Ike (KI) program as soon as possible to ensure that such accommodations are implemented in a timely fashion. The KI Office is located on the second floor of the Learning Commons building (to the right of the main Learning Commons entrance). Students may also contact the coordinator by phone at 455-0421.

Title IX

Leeward Community College is committed to supporting students and upholding the College's non-discrimination policy. Under Title IX, discrimination based upon sex and gender is prohibited. If you experience an incident of sex- or gender-based discrimination, harassment, or violence, we encourage you to reach out for help. While you may talk to a faculty member, understand that as a "Responsible Employee" of the College the faculty member must inform the college's Title IX Coordinator. If you would like to speak with someone who can afford you with privacy and confidentiality, there are designated confidential resources available who can meet with you.

For more information about available resources, and University policies, please see our website: <http://www.leeward.hawaii.edu/TitleIX> or contact our Title IX Coordinator Farshad M. Talebi at talebi@hawaii.edu or 455-0478.

COVID-19 Syllabus Changes

The coronavirus is creating extraordinary circumstances for colleges across the nation. Our class has been converted to an online class beginning March 23 and will continue for the remainder of the semester. Because of this situation, modifications to the terms in your course syllabus are required. The adjustments will allow you to complete the semester completely from home.

- Homework problems (both online and written) will be assigned per week instead of per class period. They'll still be due every Wednesday and Sunday. Written homework should be submitted through the Assignments tool on Laulima or via email to kmanguba@hawaii.edu by 11:59pm on the assignments due date.
- Midterm 2 will be administered online using online proctoring. The Final Exam info is TBD.
- Lectures will be posted on Youtube for each section of the book. The Class Schedule on the class website lists which sections you should watch each week along with the homework assigned for those sections.
- Until the end of the semester, I will hold originally-scheduled office hours via ZOOM at the following link: <https://hawaii.zoom.us/j/7751633365>.
- Communication will happen via the class website, Laulima, and email. It is important that you check your UH email several times a week.

There are resources (<http://www.leeward.hawaii.edu/covid19-student-resources>) if you need any assistance with technology—access to computers, one-on-one help with Laulima and even info on getting free wi-fi access at home. All campus support services are expected to remain open during the duration of the semester. Students should have ongoing access to the Leeward CC library and Math Lab.

University of Hawai'i's Online Learning Academy (OLA) provides FREE, one-on-one English, math and science tutoring, by highly-qualified college tutors, for the University of Hawai'i (UH) System students statewide. They offer tutoring in the following subjects: basic math, pre-algebra, algebra, geometry, trigonometry, calculus, biology, chemistry, physics, environmental science, writing, and language arts.