



**MATH 241 ONLINE – CALCULUS 1**  
4 Credits (CRN 60365)

INSTRUCTOR:	Jody-Lynn Storm
OFFICE:	Mana'opono 105A
OFFICE HOURS:	Monday & Wednesday 11:30 am – 12:30 pm Tuesday & Thursday 10:00 am – 11:00 am
OFFICE TELEPHONE:	(808) 236 – 9277
EMAIL:	<a href="mailto:jstorm@hawaii.edu">jstorm@hawaii.edu</a>
EFFECTIVE DATE:	Spring 2019

**WINDWARD COMMUNITY COLLEGE MISSION STATEMENT**

*Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Ko'olau region of O'ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.*

**CATALOG DESCRIPTION**

Basic mathematical concepts, topics in differentiation, and introductory integration of algebraic and trigonometric functions. Applications of differentiation and integration will be demonstrated. (4 hours lecture)

Pre-Requisite(s): Grade of "C" or better in MATH 140 or equivalent, satisfactory math placement test score, or consent of instructor.

WCC: FS, FQ

**STUDENT LEARNING OUTCOMES**

Upon completion of the course, the student will be able to:

- Demonstrate proficiency in determining limits, derivatives, and integrals.
- Use calculus techniques to analyze and solve applied problems.
- Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

*Note: All SLO assessments are embedded in class activities, homework, quizzes, or Exams.*

## LEARNING RESOURCES & MATERIALS

### REQUIRED MATERIALS:

- This course is offered through Canvas. At the start of the semester you will get an invitation to join the Math 241 Canvas course. Once in Canvas you will need to register for MyLab and Mastering (MLM). The registration directions are listed on the Canvas site. To register for MLM you will need to purchase an access code. There are two ways to purchase access to MLM:
  - Directly from the MLM site using PayPal or a credit card.
  - Access code Included in the textbook bundle at the bookstore.
- Calculator: TI-83 or TI-84 graphing calculator for exams.

### WCC RESOURCES:

- Alaka'i (student assistant): Eloise Maghanoy ([eglm@hawaii.edu](mailto:eglm@hawaii.edu))
- Math Lab: La'akea (Library Learning Commons) Room 220  
[http://windward.hawaii.edu/About\\_WCC/Math\\_Lab/index.php](http://windward.hawaii.edu/About_WCC/Math_Lab/index.php)
- Testing Center: La'akea (Library Learning Commons) Room 228  
[http://windward.hawaii.edu/Testing\\_Center/index.php](http://windward.hawaii.edu/Testing_Center/index.php)

### UH SYSTEM RESOURCES:

- UH Testing Sites <http://www.hawaii.edu/dl/testcenters>
- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- Distance Learning Homepage <http://www.hawaii.edu/dl/home>

### OTHER ONLINE RESOURCES:

- Tutor.com: <https://windward.hawaii.edu/tutor.com/>
- Symbolab: <https://www.symbolab.com>
- Wolfram Alpha: <http://www.wolframalpha.com>
- Demos Calculator: <https://www.desmos.com>
- Professor Leonard: <https://www.youtube.com/user/professorleonard57>
- Khan Academy Videos: <http://www.khanacademy.org>

## IS ONLINE LEARNING BEST FOR YOU?

Usually students take online courses with the assumption that it will be easier than face-to-face classes. Unfortunately this is not correct. Online courses actually require more discipline and individual effort on the part of the student. The focus is on you learning rather than the teacher lecturing.

## RESPONSIBILITIES OF STUDENTS

- Have access to a reliable high-speed internet connection
- Have adequate computer skills.
- Check emails regularly
- Be self-motivated
- Set aside adequate study time

## COURSE TASKS & GRADING

Grades are posted in Canvas. Grades for this course are based on the following course tasks:

3 Exams (100 pts. each)	300 pts.
Final Exam	100 pts.
MLM Homework	96 pts.
Graded Problem Sets	30 pts.
<b>Total</b>	<b>526 pts.</b>

Each letter grade for the course will be assigned according to the level of achievement as provided below:

<u>Letter Grade</u>	<u>Definition</u>
A	90% - 100% of the cumulative points possible
B	80% - 89% of the cumulative points possible
C	70% - 79% of the cumulative points possible
D	60% - 69% of the cumulative points possible
F	Less than 60% of the cumulative points possible
CR	70% or above of the cumulative points possible
NC	Less than 70% of the cumulative points possible
W	Official Withdrawal
I	See below

**Note:** CR/NC grades require written instructor consent. Students must apply for CR/NC grading option at the Admissions Office by the posted deadline. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course.

**Note:** The W grade is given only when the student officially withdraws from the course by the posted deadline. If a student withdraws from this course they must also withdraw from the companion Math 88 course.

**Note:** The I grade is a temporary grade given at the instructor's option when a student has failed to complete a small part of a course because of circumstances beyond his or her control.

A student may qualify for the I grade if: (a) they are unable to take the final exam and (b) taking the final exam could possibly raise their course grade. The I grade is given by student request and must be approved by the instructor.

## ADDITIONAL INFORMATION

### COMMUNICATION

The preferred form of communication is via email. I will make every effort to reply to your email within 24 hours. Weekends and holidays may have a longer response time. If you wish to contact me during posted office hours, you should use my office phone (808) 236-9277.

### EXAMS

- All exams will be proctored at your assigned testing site. You will need to send me your preferred testing site by January 14, 2019. You may change your testing site at anytime during the semester. To change your testing site email me at least 8 days before the next scheduled exam.
- Unit exams will be available for 4-5 days and the final exam will be available for 4 days at your assigned testing site.
- There are no retests or make-ups for exams. However, I will replace your lowest unit exam score with the score you earn on the final exam, provided your score on the final exam is higher than your lowest unit exam score. Hence, if you miss a unit exam, then the score earned on the final exam will replace the zero score from a missed unit exam. The final exam score may replace only one unit exam score.
- The final exam is cumulative.

### CALCULATORS

Some problems require the use of a graphing calculator. You are free to use any type of graphing device for homework problems, but may only use a TI-83 or TI-84 graphing calculator on exams. You may not use higher models, such as the TI-89 or the TI-Nspire on exams.

### MLM HOMEWORK

- Assignments are due on Sundays by 11:59pm
- There will be a 20% point deduction for late submissions
- Final submission will be on May 5, 2019 by 11:59pm

### GRADED PROBLEM SETS

Graded problems sets will be assigned from your eBook (or textbook.) You will work the problems on separate paper upload them to Canvas. To receive full credit you must show sufficient work neatly, in a clear and organized manner. Messy and/or disorganized work will not receive full credit.

### ACADEMIC HONESTY

All exams must be done by your own individual effort. You may not consult with any classmates regarding the exams. This would fall under the guidelines of academic integrity and any evidence of cheating will result in a score of 0 for all parties involved. See <http://windward.hawaii.edu/Policies/> for more information on the UH system-wide student conduct code.

## FOUNDATIONS SYMBOLIC REASONING HALLMARKS

Math 241 fulfills 3 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor's degree at 4 year UH institutions. Consequently, it meets the following hallmarks:

1. Students will be exposed to the beauty, power, clarity and precision of formal systems.
2. Instructors will help students understand the concept of proof as a chain of inferences.
3. Instructors will teach students how to apply formal rules or algorithms.
4. Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.
5. The course will include computational and/or quantitative skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

## FOUNDATIONS QUANTITATIVE REASONING HALLMARKS

Math 241 fulfills 3 credits of the General Education requirements (Foundations: Quantitative) for both an A.A. degree at WCC and a Bachelor's degree at 4 year UH institutions. Consequently, it meets the following hallmarks:

1. Provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approaches used in the course.
2. Include application of abstract or theoretical ideas and information to the solution of practical quantitative reasoning problems arising in pure and applied research in specific disciplines, professional settings, and/or daily and civic life.
3. Provide opportunities for practice and feedback that are designed to help students evaluate and improve quantitative reasoning skills by including a course component at least once per week with a maximum 30:1 student-to-teacher ratio.
4. Be designed so that student will be able to
  - a. identify and convert relevant quantitative information into various forms such as equations, graphs, diagrams, tables, and/or words.
  - b. select appropriate techniques or formulas, and articulate and evaluate assumptions of the selected approaches.
  - c. apply mathematical tools and perform calculations (including correct manipulation of formulas).
  - d. make judgments, create logical arguments, and/or draw appropriate conclusions based on the quantitative analysis of data, the assumptions made, the limitations of the analysis, and/or the reasonableness of results.
  - e. effectively communicate those results in a variety of formats.

## DISABILITIES ACCOMMODATIONS

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, [lemke@hawaii.edu](mailto:lemke@hawaii.edu), or you may stop by Hale 'Ākoakoa 213 for more information.

## TITLE IX

Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: [https://windward.hawaii.edu/Title\\_IX/](https://windward.hawaii.edu/Title_IX/).

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, WCC has resources to support you. To speak with someone confidentially, contact the Mental Health & Wellness Office at 808-235- 7393 or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or [kaahualo@hawaii.edu](mailto:kaahualo@hawaii.edu). To make a formal report, contact the Title IX Coordinator, Karla K. Silva-Park, at 808-235-7468 or [karlas@hawaii.edu](mailto:karlas@hawaii.edu).

## ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

Location: Alakai 121

Phone: 808-235-7422

Email: [wccaa@hawaii.edu](mailto:wccaa@hawaii.edu)

## MATH 241 ONLINE - SPRING 2019 SCHEDULE

IMPORTANT DATES	
JAN 15	Last day to register/add/drop and to receive 100% refund of tuition
JAN 30	Last day for 50% refund of tuition and to withdraw without a "W" grade.
MAR 25	Last day to withdraw with a "W" or choose CR/NC grade option. Last day to make up "I" grade from previous semester

Week	Dates (Mon - Sun)	MyLab & Mastering (MLM) /Graded Problem Sets Due Sunday by 11:59 pm
1	1/7 - 1/13	Orientation (optional), 2.1, 2.2
2	1/14 - 1/20	2.3, 2.4 / Graded problem set #1
3	1/21 - 1/27	2.5, 2.6 / Graded problem set #2
4	1/28 - 2/3	2.7, 3.1 / Graded Problem Set #3
5	2/4 - 2/10	3.2, 3.3 / Graded Problem Set #4
<b>EXAM 1 (Ch2, 3.1, 3.2) Available at your testing site 2/11 – 2/15</b>		
6	2/11 - 2/17	3.4, 3.5 / Graded Problem Set #5
7	2/18 - 2/24	3.6, 3.7 / Graded Problem Set #6
8	2/25 - 3/3	3.8, 4.1 / Graded Problem Set #7
9	3/4 – 3/10	4.2, 4.3 / Graded Problem Set #8
<b>EXAM 2 (3.3-3.8, 4.1, 4.2) Available at your testing site 3/11 – 3/15</b>		
10	3/11 – 3/17	4.4, 4.5 / Graded Problem Set #9
11	3/18 – 3/24	Spring Break: No class
12	3/25 – 3/31	4.6, 4.7 / Graded Problem Set #10
13	4/1 – 4/7	4.9, 5.1 / Graded Problem Set #11
14	4/8 – 4/14	5.2, 5.3 / Graded Problem Set #12
<b>EXAM 3 (4.3-4.7, 4.9, 5.1, 5.2) Available at your testing site 4/15 – 4/18</b> <b>Note: Exam not available on Good Friday 4/19</b>		
15	4/15 – 4/21	5.4, 5.5 / Graded Problem Set #13
16	4/22 – 4/28	6.1, 6.2 / Graded Problem Set #14
17	4/29 – 5/5	6.3, 6.4 / Graded Problem Set #15
18	5/6 – 5/12	Final Exam
<b>FINAL EXAM (Cumulative) Available at your testing site 5/6 – 5/9</b> <b>Note: The final exam is not available Friday 5/10</b>		