



MATH 243 – CALCULUS III
3 credits (CRN 64417)
TR 10:00am – 11:15am in Mana’opono 102

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 105A
OFFICE HOURS: Monday & Wednesday 10:00 am – 11:00 am
Tuesday & Thursday 11:30 am – 12:30 pm
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EFFECTIVE DATE: Fall 2018

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

Vector algebra, vector-valued functions, differentiation in several variables, and optimization. (3 hours lecture)

Pre-Requisite(s): Grade of "C" or better in MATH 206 or MATH 242 or equivalent or consent of instructor.

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to attain the following outcomes:

1. Apply concepts and techniques in vector calculus.
2. Apply principles and concepts from calculus to multivariable functions.
3. Use strategies from this course to solve applied problems. Analyze and apply principles, concepts, and properties from algebra, geometry, trigonometry, and calculus to solve problems.

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

COURSE TASKS AND GRADING

Grades are posted on the Laulima gradebook. Grades for this course are based on the following course tasks:

3 unit exams @ 100 pts ea	300 pts	55% of possible pts
Final Exam	100 pts	18% of possible pts
Course Activity:		
Graded Problems	100 pts	18% of possible pts
MyMathLab	50 pts	9% of possible pts
Total	550 pts	

Each letter grade for the course will be assigned according to the level of achievement as provided in the table 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.

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.

LEARNING RESOURCES

REQUIRED MATERIALS:

- MyMathLab (MML) Access Code with eBook
 - Register online at <http://pearsonmylabandmastering.com/>
 - Use Course ID: **storm77602**
- Calculator: TI-83 or TI-84

LEARNING RESOURCES:

- The Math Lab: La'akea (Library Learning Commons) Room 220
http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
- The Testing Center (TTC): La'akea (Library Learning Commons) Room 228
Phone: (808) 235-7498
http://windward.hawaii.edu/Testing_Center/index.php
- Brainfuse Online Tutors: <http://windward.hawaii.edu/brainfuse/>
- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- Desmos: <https://www.desmos.com>
- WolframAlpha: <http://www.wolframalpha.com>
- Professor Leonard: <https://www.youtube.com/user/professorleonard57>
- Khan Academy Videos: <http://www.khanacademy.org>

ADDITIONAL INFORMATION

ABSENCES

Although I do not take attendance, it is your responsibility to attend class. If you are absent, you are responsible for any important announcements or assignments given during the class you missed. You may refer to the class binder or meet with me during office hours to review any missed lecture material. Please do not send email requests for missed lecture material.

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.

EXAMS

There are no retests for exams. The final exam is cumulative. Exams will be available at least 2 days in the WCC Testing Center. If you know in advance that you will be unable to take an exam during the assigned period, it is possible for you to take the exam earlier than the specified dates.

GRADING

To receive full credit for problems done on exams or graded homework, you must show sufficient work in a clear and organized manner. Your work must be neat and organized. "Messy" and/or disorganized work will not receive full credit.

HOMEWORK

There is one homework assignment per textbook section. The assignments will be given in two parts:

- 1) MyMathLab Assigned problems
 - a) Submitted online
 - b) Due on the first day of each exam period
 - c) 20% point deduction for late submissions
- 2) Assigned graded problems from the textbook to turn in.
 - a) 5 pts each
 - b) No late submissions
 - c) Two lowest scores dropped

Assignments and due dates are posted on Laulima. You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.

CELL PHONES & OTHER ELECTRONIC DEVICES

Cell phones and other electronic devices should be silenced prior to the start of class.

DISRUPTIVE BEHAVIOR

Please respect your fellow students and act accordingly. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting.

ACADEMIC HONESTY

All exams must be done by your own individual effort. You may not consult with any classmates while taking 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. An "F" will be assigned to students involved in cheating and will be reported to the Dean. See <http://windward.hawaii.edu/Policies/> for more information on the UH system-wide student conduct code.

I encourage you to work with your classmates on the homework assignments. However, the write up of the solution for each problem must be done on your individual effort.

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, 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/.

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, Windward CC has resources to support you. To speak with someone confidentially, contact Karla Silva-Park, Mental Health Counselor, at 808-235- 7468 or karlas@hawaii.edu or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235- 7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator at 808-235-7393 or wcctix@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

Math 243 Tentative Schedule

IMPORTANT DATES	
AUG 28	Last day to register/add/drop and to receive 100% refund of tuition
SEP 11	Last day for 50% refund of tuition and to withdraw without a "W" grade.
OCT 29	Last day to withdraw with a "W" or choose CR/NC grade option. Last day to make up "I" grade from previous semester

	TUESDAY		THURSDAY
AUG 21	Orientation	AUG 23	12.1
AUG 28	12.2	AUG 30	12.3
SEP 4	12.4	SEP 6	13.1
SEP 11	13.2	SEP 13	13.3
SEP 18	13.4	SEP 20	EXAM 1 (Ch12, 13.1-13.2)
SEP 25	13.5	SEP 27	13.5
OCT 2	13.6	OCT 4	13.7
OCT 9	13.8	OCT 11	13.9
OCT 16	14.1	OCT 18	EXAM 2 (13.3-13.9)
OCT 23	14.2	OCT 25	14.3
OCT 30	14.4	NOV 1	14.5
NOV 6	No Class Election Day	NOV 8	14.6
NOV 13	14.7	NOV 15	EXAM 3 (14.1-14.6)
NOV 20	14.8	NOV 22	No Class Thanksgiving Day
NOV 27	14.8	NOV 29	14.9
DEC 4	Final Exam Review	DEC 6	Final Exam Review
DEC 11	FINAL EXAM In Testing Center 12/10 - 12/13	DEC 13	

Math 243 Graded Problems

Due	Section	Assignment
	12.1	# 12, 20, 26, 30, 38, 42, 64
	12.2	# 36, 48, 62, 68, 78, 84a, 88, 96, 104
	12.3	# 8, 14, 16, 24, 30, 38, 42
	12.4	# 24, 32, 48, 52, 58, 62, 70, 92
	13.1	# 26, 32, 40, 46, 52, 58, 64
	13.2	# 28, 34, 48, 52, 56, 64, 68, 72
	13.3	# 34, 38, 44, 50, 58, 70, 86
	13.4	# 24, 38, 42, 46, 48, 52, 56
	13.5	# 24, 28, 30, 44, 52, 58, 62
	13.6	# 20, 28, 38, 44, 50, 56, 62, 70
	13.7	# 20, 36, 40, 42, 46, 50, 70
	13.8	# 14, 20, 24, 32, 36, 48
	13.9	# 16, 24, 30, 38, 42, 48
	14.1	# 18, 24, 36, 42, 56, 64, 84
	14.2	# 16, 18, 24 (don't need to graph), 32, 36, 48
	14.3	# 14, 22, 30, 38, 44, 54, 64
	14.4	# 10, 18, 28, 30, 38, 42, 44
	14.5	# 12, 24, 34, 44, 50, 62
	14.6	# 20, 28, 34, 48, 58
	14.7	# 12, 20, 28, 34, 40, 46
	14.8	# 14, 24, 28
	14.9	# 6, 12, 20, 30