

MATH 205 – CALCULUS I (ONLINE)
CRN 60346 (4 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana`opono 105A
OFFICE HOURS: MWF 10:00 am - 11:00 am
TR 11:30 am - 12:30 pm
And by appointment
OFFICE TELEPHONE: (808) 236 - 9277
EMAIL: jstorm@hawaii.edu
WEBSITE: <http://www.jodystorm.com>
EFFECTIVE DATE: Fall 2015

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 O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

COURSE 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

LEARNING RESOURCES & MATERIALS

REQUIRED MATERIALS:

- 1) **MyMathLab (MML) Access Code**. MML comes with the eBook: Single Variable Calculus for Scientists and Engineers, by Briggs & Cochran. You may purchase the MML access code from our bookstore or directly online from the publisher.
 - a. If purchasing through our bookstore you will receive a MML access code bundled with a paperback copy of the textbook. If you are purchasing the access code directly online you will have access to the eBook, but will not have a hardcopy of the textbook.
 - b. Register for the MML course online at <http://pearsonmylabandmastering.com/> with Course ID: **storm59143**
Registration instructions are located in Lualima under 'Resources'.
- 2) Calculator: TI-83, TI-83+, TI-84, or TI-84+

WCC RESOURCES:

- Supplemental Instruction Leader (SIL): Kat Bronston (email: kb420@hawaii.edu)
- WCC Math Lab: La`akea (Library Learning Commons) Room 226
http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
- WCC Testing Center: La`akea (Library Learning Commons) Room 228
Phone number: 235-7498
http://windward.hawaii.edu/Testing_Center/index.php

UH SYSTEM RESOURCES:

- Proctoring Sites <http://www.hawaii.edu/dl/testcenters>
- Distance Learning Homepage <http://www.hawaii.edu/dl/home>

ONLINE TUTORING RESOURCES:

- Brainfuse Online Tutors: <http://windward.hawaii.edu/brainfuse/>
- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- Khan Academy Videos: <http://www.khanacademy.org>

STUDENT LEARNING OUTCOMES

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

1. Understand and use the formal and intuitive definitions of limits and apply them in limit calculations and in determining continuity.
2. Demonstrate proficiency in determining derivatives and apply different interpretations of the derivative.
3. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.
4. Use calculus techniques to analyze and solve applied problems.
5. Use derivatives to analyze and sketch graphs and/or to solve related problems.
6. Demonstrate proficiency in determining antiderivatives and integrals.
7. Utilize integration in applied problems.

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

FOUNDATION HALLMARKS

Math 205 fulfills 4 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor's degree at UH Manoa. Consequently, it meets the hallmarks of the symbolic reasoning requirement.

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 not focus solely on computational skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

COURSE TASKS & GRADING

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

4 unit exams @ 100 pts ea	400 pts	55% of possible pts
Final Exam	145 pts	20% of possible pts
Homework	180 pts	25% of possible pts
Total	725 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: *Definition: 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

EXAMS

Exams will be available for at least 3 days at your assigned proctoring site. If you know in advance that you will be unable to take an exam during the assigned period, discuss your situation with the instructor. It may be possible for you to take the exam earlier than the specified dates. If there is a documented emergency preventing you from taking an exam during the assigned period, then a make-up exam will be scheduled. Make-up exams are scheduled at the end of the semester. **NO MORE THAN ONE** make-up exam may be taken. There are no retests for exams. 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-84+ or lower TI model graphing calculator on exams. You may not use higher models, such as the TI-89 or the TI-Nspire on exams as these come equipped with CAS.

SUPPLEMENTAL INSTRUCTION (SI)

If an SI Leader is assigned for this course, then for each hour of SI one point will be added to the Homework portion of your grade. SI points added cannot push the Homework points over the maximum allotment of 180 points.

This class is supported by the Supplemental Instruction (SI) program. SI is a FREE, collaborative, peer-study program that helps students succeed in difficult classes. Your SI Leader is a peer who has taken this class (or a higher level class) previously and has an understanding of the course material. In SI sessions, students will work together with the SI Leader to explore important concepts, review class notes, discuss test taking strategies, and review for tests. All students in this class are encouraged to attend!

Note: At WCC, students who attend SI sessions earn A, B, and C grades at nearly a 20% higher rate than non-attendees and are less likely to withdraw from their courses. WCC data has also shown that the more sessions students attend, the more likely they are to pass.

HOMEWORK

Homework is assigned through MyMathLab.

- a) Assignments are due on Sundays by 11:59pm
- b) There will be a 20% point deduction for late submissions
- c) Final submission will be on December 12, 2015 by 11:59pm

As mathematics requires practice to fully understand the material, you may need to do more than the assigned homework problems to become comfortable with the concepts and skills.

GRADING

To receive full credit for problems done on exams, 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.

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.

~~~~~

### DISABILITIES ACCOMMODATION STATEMENT

*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 at your campus to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke, WCC Disability Specialist Counselor, can be reached at (808) 235-7448, [lemke@hawaii.edu](mailto:lemke@hawaii.edu), or you may stop by Hale 'Akoakoa 213 for more information, or visit <http://windward.hawaii.edu/Disabilities/>*

~~~~~

Math 205 Schedule (Online course) Storm – Fall 2015

Important Dates	
AUG 28	Last day to register/add/drop and to receive 100% refund of tuition
SEP 14	Last day for 50% refund of tuition and to withdraw without a "W" grade.
OCT 30	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)	MyMathLab Assignments Due Sunday by 11:59 pm
1	8/24 - 8/30	2.1
2	8/31 - 9/6	2.2, 2.3, 2.4
3	9/7 - 9/13	2.5, 2.6, 2.7
4	9/14 - 9/20	3.1
EXAM 1 (Ch2) Available at your testing site 9/16 - 9/18		
5	9/21 - 9/27	3.2, 3.3, 3.4
6	9/28 - 10/4	3.5, 3.6, 3.7
7	10/5 - 10/11	4.1, 4.2
EXAM 2 (Ch3) Available at your testing site 10/7 - 10/9		
8	10/12 - 10/18	4.3, 4.4, 4.5
9	10/19 - 10/25	4.6, 4.7, 4.9
10	10/26 - 11/1	5.1
EXAM 3 (Ch4) Available at your testing site 10/28-10/30		
11	11/2 - 11/8	5.2, 5.3
12	11/9 - 11/15	5.4, 5.5
13	11/16 - 11/22	6.1, 6.2
EXAM 4 (Ch5, 6.1, 6.2) Available at your testing site 11/23-11/25		
14	11/23 - 11/29	6.3, 6.4
15	11/30 - 12/6	6.5, 6.6
16	12/7 - 12/13	Final exam review
FINAL EXAM (Cumulative) Available at your testing site 12/14-12/17		