MATH 205 – CALCULUS I (4 Credits) – CRN 61276
MWF 10:00 am – 11:15 am in Mana’opono 114

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 105A
OFFICE HOURS: Tue – Fri 11:30 am – 12:30 pm
And by appointment
TELEPHONE: (808) 236 – 9277
EMAIL: jstorm@hawaii.edu
WEBSITE: www.jodystorm.com
EFFECTIVE DATE: Fall 2017

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:
• MyMathLab (MML) Access Code with eBook
  o Register online at http://pearsonmylabandmastering.com/
  o Use Course ID: storm98428
• Calculator: TI-83 or TI-84 graphing calculator.

LEARNING RESOURCES:
• Supplemental Instruction Leader (SIL): Aspen Morgan
  Email: aspenjm@hawaii.edu
• Math Lab: La‘akea (Library Learning Commons) Room 226
  http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
• The Testing Center (TTC): La‘akea (Library Learning Commons) Room 228
  Phone number 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/
• Wolframalpha: http://www.wolframalpha.com/
• 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 Laulima gradebook. Grades for this course are based on the following course tasks:

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Points</th>
<th>Percentage of Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 unit exams @ 100 pts ea</td>
<td>400 pts</td>
<td>57%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>130 pts</td>
<td>19%</td>
</tr>
<tr>
<td>Course Activity:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graded Problems</td>
<td>136 pts</td>
<td>19%</td>
</tr>
<tr>
<td>MyMathLab</td>
<td>34 pts</td>
<td>5%</td>
</tr>
<tr>
<td>Total</td>
<td>700 pts</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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.

ADDITIONAL INFORMATION

ABSENCES

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. It is your responsibility to meet with your instructor to review any missed lecture material. You
may drop in during posted office hours or make an appointment to meet one-on-one. Please do not send email requests for missed lecture material.

**EXAMS**

There are no retests for exams. The final exam is cumulative. Exams will be available for at least 2 days in the Testing Center. 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 the percent that you earn on the final exam is higher than your lowest exam score, then I will replace your lowest exam score with the percent that you earn on the final.

**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.

**SUPPLEMENTAL INSTRUCTION (SI)**

For each hour of SI one point will be added to the Course Activity portion of your grade. You may earn up to 5 points over the Course Activity allotment of 170 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**

Typically there is one homework assignment per textbook section. Most of 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 (mostly from the textbook) to turn in.
   a) 4 pts. each
   b) Must be turned in at the start of class
   c) No late submissions
   d) Assignments and due dates are posted on the instructor’s webpage
   e) Solutions will be posted on Laulima under ‘Resources’

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 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.

CELL PHONES & OTHER ELECTRONIC DEVICES
Cell phones and other electronic devices should be silenced and put away prior to the start of class.

DISRUPTIVE BEHAVIOR
Please do not be disruptive during class. Respect your fellow students and act accordingly.

ACADEMIC HONESTY
All exams must be done by your own individual effort. You may not consult with others 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.

Graded homework assignments may be discussed with others and you may use outside resources. However, the write up of the solution for each problem must be done on your individual effort.

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 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 ‘Akoakoa 213 for more information, or visit http://windward.hawaii.edu/Disabilities/
<table>
<thead>
<tr>
<th></th>
<th>MONDAY</th>
<th>WEDNESDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>AUG 25</td>
<td>Last day to register/add/drop and to receive 100% refund of tuition</td>
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<tr>
<td>SEP 12</td>
<td>Last day for 50% refund of tuition and to withdraw without a &quot;W&quot; grade.</td>
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<tr>
<td>OCT 30</td>
<td>Last day to withdraw with a &quot;W&quot; or choose CR/NC grade option. Last day to make up &quot;I&quot; grade from previous semester</td>
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<tr>
<td>AUG 21</td>
<td>Orientation, 2.1</td>
<td>AUG 23</td>
<td>AUG 25</td>
</tr>
<tr>
<td>AUG 28</td>
<td>2.4</td>
<td>AUG 30</td>
<td>2.5</td>
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<td>SEP 4</td>
<td><strong>NO CLASS</strong></td>
<td>SEP 6</td>
<td>2.7</td>
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<tr>
<td>SEP 11</td>
<td>3.2</td>
<td>SEP 13</td>
<td>EXAM 1 (Ch2) In Testing Center 9/13-9/15</td>
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<tr>
<td>SEP 18</td>
<td>3.4</td>
<td>SEP 20</td>
<td>3.5</td>
</tr>
<tr>
<td>SEP 25</td>
<td>3.6</td>
<td>SEP 27</td>
<td>3.7</td>
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<tr>
<td>OCT 2</td>
<td>4.1</td>
<td>OCT 4</td>
<td>4.2</td>
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<tr>
<td>OCT 9</td>
<td>4.3</td>
<td>OCT 11</td>
<td>OCT 13</td>
</tr>
<tr>
<td>OCT 16</td>
<td>4.6</td>
<td>OCT 18</td>
<td>4.7</td>
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<tr>
<td>OCT 23</td>
<td>5.1</td>
<td>OCT 25</td>
<td>MI</td>
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<tr>
<td>OCT 30</td>
<td>5.2</td>
<td>NOV 1</td>
<td>5.3</td>
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<tr>
<td>NOV 6</td>
<td>5.5</td>
<td>NOV 8</td>
<td>6.1</td>
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<td>NOV 13</td>
<td>6.2</td>
<td>NOV 15</td>
<td>6.3</td>
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<td>NOV 20</td>
<td>EXAM 4 (Ch5, 6.1-6.2) In Testing Center 11/20-11/22</td>
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<tr>
<td>NOV 27</td>
<td>6.4</td>
<td>NOV 29</td>
<td>6.7</td>
</tr>
<tr>
<td>DEC 4</td>
<td>Final Review</td>
<td>DEC 6</td>
<td>Final Review</td>
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<tr>
<td>DEC 11</td>
<td><strong>FINAL EXAM</strong> In Testing Center 12/11-12/14</td>
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<td></td>
<td></td>
<td>DEC 13</td>
<td>DEC 15</td>
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