MATH 206 – CALCULUS II (4 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 105
OFFICE HOURS: MTWR 10:00 am – 11:00 am
F 10:30 am – 11:30 am and by appointment
TELEPHONE: (808) 236 – 9277
EMAIL: jstorm@hawaii.edu
WEBPAGE: http://www.jodystorm.com
EFFECTIVE DATE: Fall 2013

CRN  Days  Time  Classroom
64445  TR  8:00 am – 9:45 am  Mana’opono 114

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

Differentiation and integration concepts of trigonometric, exponential, logarithmic and hyperbolic functions. Integration implements, infinite series, and applications of derivatives and integrals are also featured.(4 hours lecture)

Pre-Requisite(s): Grade of “C” or better in MATH 205 or equivalent or consent of instructor.
WCC: FS

LEARNING RESOURCES & MATERIALS

REQUIRED MATERIALS:
- Textbook: Single Variable Calculus, by Briggs & Cochran
  - If preferred, may use ebook on MyMathLab
- MyMathLab (MML) Access Code
  - Register online at http://pearsonmylabandmastering.com/?cc
  - Use Course ID: storm82885
  - Comes with an ebook
- Calculator: TI-83, TI-83+, TI-84, or TI-84+

LEARNING RESOURCES:

- Math Lab: La’akea (Library Learning Commons) Room 226
  http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
- Testing Center: 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/](http://windward.hawaii.edu/brainfuse/)

OLA (UH online tutoring program): [http://manoa.hawaii.edu/ola/](http://manoa.hawaii.edu/ola/)

Kahn Academy Videos: [http://www.khanacademy.org](http://www.khanacademy.org)

**STUDENT LEARNING OUTCOMES**

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

1. Apply limits, derivatives, and integrals to inverse functions, logarithmic, exponential, hyperbolic, and inverse trigonometric functions.
2. Utilize various techniques of integration.
3. Determine whether a sequence or series converges.
4. Use concepts from the course to solve problems.
5. Solve differential equations.
6. 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.*

**FOUNDATION HALLMARKS**

Math 206 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>Course Task</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 unit exams</td>
<td>55%</td>
</tr>
<tr>
<td>Course Activities</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>
Course Activities may include, but are not limited to:
- Homework problems
- In-class activities
- MyMathLab
- SI sessions

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>
</tr>
<tr>
<td>N</td>
<td>See below</td>
</tr>
<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>
</tr>
</tbody>
</table>

Note: The N grade indicates that the student has worked conscientiously, attended class regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved the minimal student learning objectives and is not yet prepared to succeed at the next level, or the student has made consistent progress in the class but is unable to complete the class due to extenuating circumstances, such as major health, personal, or family emergencies.

The N grade is an optional grade that instructors do not have to give. All requests for the N grade must be submitted by the student in writing and is contingent upon the instructor’s approval.

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. If you are absent frequently or for an extended period of time, contact the instructor as soon as you can to discuss your situation. Frequent absences could negatively impact your grade.

MAKE-UP POLICY
If you are unable to attend class on an exam day, discuss your situation with the instructor as soon as possible before the exam day. It may be possible for you to take the exam earlier than the specified day/time. If you unexpectedly must be absent on an exam day, notify me by 4:00 pm via voicemail or email. If notification is received and the reason is justified then a make-up exam will be scheduled. The instructor reserves the right to request documentation to determine whether the absence is justifiable. For each student, NO MORE THAN ONE make-up exam may be taken. There are no make-up opportunities for missed homework, graded in-class activities or other graded course activities.

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 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.

EXAMS
There are no retests for chapter exams or quizzes. The final exam is cumulative.

SI SESSIONS
Up to 20% of course activity points may be earned by attending the SI sessions. The percent will be based on a total of 30 SI hours. The Course Activity grade may not exceed 100%

HOMEWORK
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. Due on exam day
   b) 20% point deduction for late submissions
   c) Final submission by 12/15/2013
2) Assigned graded problems (mostly from the textbook) to turn in.
   a) Must be turned in at the start of class
   b) No late submissions

Assignments and due dates are posted on the instructor’s webpage. 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 DEVICES
Cell phones should be silenced and put away prior to the start of class. Other electronic devices such as laptops and iPads may not be used during class unless specified by instructor.

DISRUPTIVE BEHAVIOR & ACADEMIC HONESTY
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. Examples are activated cell phones, texting, making offensive remarks, prolonged chattering, reading other materials not relevant to the class, smokeless cigarettes, etc.

All quizzes and exams must be done by your own individual effort. You may not consult with any classmates while taking quizzes or 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 your classmates and you may seek guidance from the instructor, the Math Lab tutors, the Trio tutors (if you are a Trio client), or the SIL (if assigned to your course). 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/

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# TENTATIVE SCHEDULE – MATH 206

**FALL 2013 – STORM**  
TR 8:00 am – 9:45 am

<table>
<thead>
<tr>
<th>Date</th>
<th>Tuesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG 27</td>
<td>Orientation, 7.1</td>
<td>AUG 29</td>
</tr>
<tr>
<td>SEP 3</td>
<td>7.2</td>
<td>SEP 5</td>
</tr>
<tr>
<td>SEP 10</td>
<td>7.4</td>
<td>SEP 12</td>
</tr>
<tr>
<td>SEP 17</td>
<td>7.6, 8.1</td>
<td>SEP 19</td>
</tr>
<tr>
<td>SEP 24</td>
<td>8.3</td>
<td>SEP 26</td>
</tr>
<tr>
<td>OCT 1</td>
<td>Exam 1 Review</td>
<td>OCT 3</td>
</tr>
<tr>
<td>OCT 8</td>
<td>8.5</td>
<td>OCT 10</td>
</tr>
<tr>
<td>OCT 15</td>
<td>8.7</td>
<td>OCT 17</td>
</tr>
<tr>
<td>OCT 22</td>
<td>9.2</td>
<td>OCT 24</td>
</tr>
<tr>
<td>OCT 29</td>
<td>9.4</td>
<td>OCT 31</td>
</tr>
<tr>
<td>NOV 5</td>
<td>Exam 2 Review</td>
<td>NOV 7</td>
</tr>
<tr>
<td>NOV 12</td>
<td>9.6</td>
<td>NOV 15</td>
</tr>
<tr>
<td>NOV 19</td>
<td>10.2</td>
<td>NOV 21</td>
</tr>
<tr>
<td>NOV 26</td>
<td>10.4</td>
<td>NOV 28</td>
</tr>
<tr>
<td>DEC 3</td>
<td>8.8</td>
<td>DEC 5</td>
</tr>
<tr>
<td>DEC 10</td>
<td><strong>EXAM 3</strong></td>
<td>DEC 12</td>
</tr>
<tr>
<td>DEC 17</td>
<td></td>
<td>DEC 19</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FINAL EXAM</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8:30 am - 10:30 am</td>
</tr>
</tbody>
</table>

**Important Dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAN 11</td>
<td>Last day to register/add/drop and to receive 100% refund of tuition</td>
</tr>
<tr>
<td>JAN 28</td>
<td>Last day for 50% refund of tuition and to withdraw without a &quot;W&quot; grade.</td>
</tr>
<tr>
<td>MAR 21</td>
<td>Last day to withdraw with a &quot;W&quot; or choose CR/NC grade option</td>
</tr>
<tr>
<td></td>
<td>Last day to make up &quot;I&quot; grade from previous semester</td>
</tr>
</tbody>
</table>