MATH 206 – CALCULUS II - 4 credits
MTRF 8:00 – 9:50 a.m.

INSTRUCTOR: Jean Okumura
OFFICE: Mana’opono 112A
OFFICE HOURS: W 8:00 – 9:50 a.m.
              Other Hours by Appointment
TELEPHONE: 236-9282
FAX NUMBER: 247-5362  Attention: Jean Okumura
EMAIL ADDRESS: jokumura@hawaii.edu
EFFECTIVE DATE: Summer 2011

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.

Catalog 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 hrs lecture)

PREREQUISITES: Grade of "C" or better in Math 205 or equivalent, satisfactory placement test score, or consent of instructor.

Suggested Basic Skills

Good study skills and habits; Competency with Math 135 (PreCalculus: Elementary Functions), Math 140 (PreCalculus: Trigonometry and Analytic Geometry), and Math 205 (Calculus I).

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.
Learning Resources and Materials

Required Text:  Calculus Single Variable 6th ed., by Stewart

Required Technology Tool:  TI-83, TI-83+, TI-84, or TI-84+ calculator


MATH LAB:  Mana`opono 113
Free Drop-In Tutoring

THE LEARNING CENTER (TLC):  Alakai 106 – phone number 235-7498

UH Manoa Online Learning Academy:  http://manoa.hawaii.edu/ola/
Free online tutorial assistance from 2 to 10 pm

Activities Required at Scheduled Times Other Than Class Times

Homework; quizzes; consultation with instructor.

It is expected that students spend, at the minimum, 24 hours per week outside of class time studying and doing homework and readings for this class.

STUDENT LEARNING OUTCOMES

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.
Course Goals

1. To engender the learning of the fundamental precepts, concepts and properties of differential calculus for trigonometric, exponential, logarithmic and hyperbolic functions, of integration methods and of infinite series.

2. To nurture the student's problem solving skills.

3. To extend the student's periphery of mathematical reasoning and understanding in areas germane to calculus and to facilitate the student's comprehension of the nature of proofs through logical, deductive means and augmented by intuitive means.

4. To inculcate the relevance of calculus through applications.

5. To prepare the student for endeavors that have Calculus II as a prerequisite.

Responsibilities of Students

Success in this course will be enhanced by:

1. A positive, inquiring attitude toward mathematics;

2. Setting aside adequate time for studying, working on problems, and careful cogitation of the material;

3. Reading the text carefully and making use of other learning materials whenever necessary;

4. Seeking assistance from the instructor and the Math Lab whenever necessary;

5. Regularly attending class and, notifying the instructor of an absence and responsibly obtaining and completing assignments by the designated date.

Email and Laulima Website

You are responsible for checking your UH email regularly for important announcements. You are also expected to check the Math 206 Laulima site for important resources for the course.
Academic Honesty

All quizzes and exams are closed books and notes and must be done by your individual effort. You may not consult with any classmates while taking quizzes or exams. You are not allowed to tell a friend the type of questions on the quiz or exam, the answers, or help a classmate in any way (e.g. by explaining how to solve the problem). 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. Also keep in mind that we are assessing your knowledge and understanding of the concepts and strategies – attempting to find the answers online or through other sources is not in the spirit of academic honesty. An “F” will be assigned to students involved in cheating and will be reported to the Dean.

Graded assignments that apply to the course activities portion of your grade may be discussed with your classmates and you may seek guidance from the instructor, the Math Lab tutors, or the Trio tutors (if you are a Trio client), however, the write up of the solution for each problem must be done on your individual effort unless otherwise specified by the instructor. Graded assignments are not group assignments where all members of the group write the same responses for each problem. Any evidence of plagiarism will result in a score of 0 for all parties involved. If plagiarism persists, then an “F” will be assigned to the students involved in plagiarism and will be reported to the Dean.

Disruptive Behavior

Disruptive Behavior leads to a loss of learning time. Examples are activated beepers and cell phones, texting messages, making offensive remarks, packing books before class is over, making noise, leaving class early, coming to class late, sleeping in class, prolonged chattering, reading other materials not relevant to this class, etc. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting, and will be marked absent.
# Course Tasks and Grading Information

Grades for this course are based on the following course tasks:

- **3 exams @100 pts** 300 pts  (48% of possible pts)
- **Quizzes (announced)**  60 pts  (10% of possible pts)
  *(for the ending sections)*
- **Course Activities**  100 pts  (16% of possible pts)
  *(Total percent earned)*(100) = pts for CA
- **Recitation Participation**  40 pts  (6% of possible pts)
- **Final Exam**  **125 pts**  (20% of possible pts)
- **Total points**  **625 pts**

Course activities may include but are not limited to:

- Graded Homework Problems
- In-Class Problems
- Journal entries (writing assignments)
- Computer Activities
- Other Problems
- Presentations

Most course activities will be graded homework problems and in-class or other additional problems. Although there are points associated only with graded problems for the course activities portion of the grade, it is expected that students do recommended problems that are problems from the text or on handouts that have answers provided as a way to practice the strategies learned. Not doing recommended problems and/or waiting to work on recommended problems until right before an exam generally results in poor exam results and a lack of success in this course.

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>Cr</td>
<td>70% - 100% 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>Incomplete - given when a student has failed to complete a SMALL part of the course due to circumstances beyond his/her control.</td>
</tr>
</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) will be assigned for the course.**

Note: **W grade is given only when the student officially withdraws from the course at the Admissions Office by the posted deadline.**
Additional Information

1. **ABSENCES:**
   
   It is your responsibility to attend class. If you are absent, borrow a classmate's notes and copy them for the day you were absent. You are responsible for those topics and examples discussed on the day of your absence. Furthermore, you are responsible for any important announcements or homework assignments given during the class you missed. Frequent absences can negatively affect your grade.

2. **MAKE-UP POLICY:**
   
   There are no make-up opportunities for any quizzes, graded assignments, or graded in-class activities that you miss due to absences or tardiness. Some extra credit opportunities are available for the course activities portion of your grade.

   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 THE INSTRUCTOR BY THE END OF THAT EXAM DAY. YOU CAN LEAVE A VOICE MAIL MESSAGE FOR THE INSTRUCTOR (236-9282).** BE SURE TO STATE THE REASON FOR THE ABSENCE. If no notification is received by the day of the exam or if the reason is not justified, then you will receive a 0 for that exam and no make-up will be allowed. If notification is received and the reason is justified then a make-up exam will be scheduled. You must take the make-up exam as soon as possible after you return to school. The instructor has the right to request documentation of the student’s absence and determine if the reason for the absence is justified. **FOR EACH STUDENT, NOT MORE THAN ONE MAKE-UP EXAM MAY BE TAKEN.**

3. There are **NO RETESTS** for this course.

4. **FINAL EXAM:** The final exam is cumulative.

5. **CALCULATOR:**
   
   A TI-83, TI-83+, TI-84, or TI-84+ calculator is required for this class. The calculator is required for some parts of the exams and assignments and not allowed for other parts.
6. **HOMEWORK:**

Read the sections to be covered in a class session prior to that class session. As you read each section, write down terminology or symbols and its definition and properties/rules that are important and that are not already listed in the in-class notes. This will become helpful additional notes. Try to do as much of the recommended problems as possible. Also look at the in-class examples and try to do as much of those problems as possible.

After the class lecture/discussion on a section, you should complete the recommended problems from those sections. Those problems and concepts that you still do not understand or that you need further clarification on should be asked about on the class meeting after the section is discussed in class. Because there is very little class time, you will probably need to seek further assistance from the instructor or from the Math Lab if not all your questions on problems are handled during class time or if you are still having difficulties. Complete, review, and analyze all of the recommended problems to help you learn and get a better understanding of the material. You may need to do more than the recommended problems to become comfortable with the concepts and skills.

After the section(s) are covered in class, graded homework that count towards the course activities (CA) portion of your grade will be given with a due date. This graded homework must be turned in on time and at the beginning of the class, unless otherwise specified. LATE GRADED HOMEWORK WILL NOT RECEIVE ANY POINTS. You may turn in your graded homework before the due date and/or time without losing points. There will be opportunities to earn some earn extra credit points towards your course activities portion of your grade.

Course activities may also include other activities such as journals (writing assignments), oral presentations, etc. Any item collected for grading purposes for the course activities portion of your grade are due at the BEGINNING OF CLASS unless otherwise specified by the instructor and WILL NOT RECEIVE ANY POINTS IF TURNED IN LATE.

Although there are generally no points associated with recommended problems that are problems from the text or on handouts that have answers provided as a way to practice the strategies learned, it is expected that students do recommended problems to assist them in their learning. Not doing recommended problems and/or waiting to work on recommended problems until right before an exam generally results in poor exam results and a lack of success in this course.

Be sure to review and analyze your graded homework and other course activities after it is returned to you. This will help you to get a better understanding of the material and concepts.
Additional Information (continued)

7. **CELL PHONES:**

   Please put your cell phone on silent mode or turn it off prior to the start of the class so that it does not disturb the class session.

8. **HELP:**

   Your instructor is your primary human resource for help when you are lost or having trouble. Seek help immediately if you are encountering problems even after reading and re-reading the text section(s) and listening to/thinking about the discussion in class on that section(s). See the instructor during office hours, make an appointment, email or call. Don't wait too long to get help!!

   If a crisis comes up that interferes with the class, communicate with your instructor in a timely manner. Too many students wait until it is too late to inform their instructor about their crisis and that reduces the options that students may have to complete the course with a grade of C or better.

9. **GRADING ON HOMEWORK, QUizzes, OR EXAMS:**

   To receive full credit for problems done on exams, on quizzes, or for graded homework, you must show sufficient work in a clear, logical, mathematically precise and organized manner. This is to assess student learning outcome #6 and Foundations Hallmark #4. It also helps me determine where your error is (hence, you might be able to obtain partial credit) and if you are logically applying the mathematical tools learned to solve the given problem. Your work must be neat and organized. "Messy" and/or disorganized work will not be accepted.

10. **DON'T PROCRASTINATE**

    Mathematics is not a subject that you can consistently be successful in by "cramming" a day or two before the test. By "cramming" you don't develop proficiency in doing the problems, knowledge of what to do on a particular problem and long-term understanding of the process. Also, if you procrastinate, you may fall so hopelessly behind that it becomes impossible to catch up. It requires constant work to keep on top of the material.