**Course Description:** Integration techniques and applications, series and approximations, differential equations.

**Prerequisites:** A grade of C or better in Math 241 or 251A or a grade of B or better in Math 215.

**Class Meetings:** We will meet for class MWRF 9.00-10.20 in Keller 302.

**Instructor:**
Anthony Walter  
Keller Hall 404D  
anthony@math.hawaii.edu

**Office Hours:** 11-12 MWRF or by appt. Walk ins are also welcome.

**Course Web Page:** [http://math.hawaii.edu/~anthony/242/](http://math.hawaii.edu/~anthony/242/)

A detailed class schedule, homework assignments, announcements, and grades will be posted on the class web page. Students are expected to check the class web page frequently.

**Attendance/Participation:** Attendance is mandatory. You are responsible for everything we do in class even if you are not here. Attendance points will be gained through in class worksheets, and participation in class and group discussions.

**Exams:** There will be three midterm exams and a comprehensive final. Make-up exams will be given only under excruciating circumstance.

Exam dates:

- First midterm, covering to the end of ch 7, Friday June 23
- Second midterm, covering all the integration techniques from ch 8, Friday July 7
- Third midterm, covering everything about sequences and series(ch9), Friday July 28
- Final, cumulative- everything from the beginning, last day, Friday August 11

**Homework and Quizzes:** Homework will be given (almost) everyday. Some fraction of these will be graded. Solutions must be written out clearly, showing the logical steps necessary to arrive at the answer. Answers with no work may be given no credit. Late homework will be accepted only with advance permission. Quizzes, based on the homework, will be given in class occasionally.

**Grades:** Grades will be posted on the course web page. Check your grades on a regular basis:

- 20% – Final
- 45% – 3 Midterms(15% each)
- 25% – Homework and quizzes
- 10% – Participation

**Program Objectives:** This is the second course of our calculus sequence for STEM (Science, Technology, Engineering, Mathematics) majors. As these courses are introductory, the approach is more computational than theoretical. Mathematics is the basic language for STEM fields. Understanding the language, the basic ideas and results, and the computational techniques of calculus is prerequisite to any advanced learning in
a STEM field.

**Academic Expectations:** In addition to adhering to and following the University Student Conduct Code (http://studentaffairs.manoa.hawaii.edu/policies/conduct_code/) students are expected to follow the Mathematics Department Academic Expectations(http://www.math.hawaii.edu/home/Expectations.html).

**Required Materials:**
- The book: University Calculus(Alternate Edition) by Hass, Weir, and Thomas. ”(The ’custom edition’ is also okay)

**General Remarks:**
- Students absolutely must read the designated section and examples and attempt the practice problems before class without looking at the solutions. Class will consist of a question session, a group problem solving session based on your preparation, and a lecture.
- We will be covering nearly one section every day. You are expected to do the homework from that section and read the following section so you are prepared for the next day.
- If you are falling behind it is important that you come see me for help as soon as you notice.

**Important Dates:**
- June 5 - First day of instruction.
- June 12 - Kamehameha Day(observed)
- June 19 - Last day to drop with no ’W’
- June 23 - Exam 1
- July 7 - Exam 2
- July 14 - Last day to withdraw
- July 28 - Exam 3
- August 11 - Final examination.