MATH 242 — CALCULUS II
UNIVERSITY OF HAWAI‘I AT MĀNOA
FALL 2011

Professor Info: Dr. Xander Faber
404 Physical Sciences Building
xander@math.hawaii.edu
http://www.math.hawaii.edu/~xander/
Office Hours — MWF 9:30–10:30am

TA Info: Jonathan Brown
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Office Hours — TBD

Course Coordinates: MWF 11:30–12:20pm
Keller 302

Lab Coordinates: M 1:30–2:20pm (Section 4)
W 1:30–2:20pm (Section 5)
208 Physical Sciences Building

Course Page: Linked from the teaching section of my home page.


Course Material: This course will cover parts of chapters 7, 8, 9, 16, and 17 of the text. Chapters 16 and 17 of the textbook are digital; a link to them is located on the course web page. We will discuss transcendental functions (exponential, logarithmic, trigonometric); how said functions interact with limits, derivatives, and integrals; a number of advanced integration techniques; the theory of sequences and series (including power series); and some basic techniques in the theory of first– and second–order linear differential equations.

Course Grade: Your final grade for the course is determined according to the following scheme:

| Exam 1: | 10% | September 14 |
| Exam 2: | 10% | October 10 |
| Exam 3: | 10% | November 4 |
| Final Exam: | 40% | December 16, 12:00-2:00pm |
| Lab Activities: | 20% |
| Homework: | 10% |

Exams: The three regular exams will be given in class on the dates listed above, and the final will be given during the usual exam period. Please be prompt to insure that you have the maximum amount of time to complete your exam. Graphing calculators, computers, and phones are prohibited. You may use a scientific calculator for arithmetic if you like.

Quizzes: A short quiz will be given during each of the lab meetings. These quizzes will be based directly on the homework and should serve as a diagnostic for your understanding of the material.
**Homework Assignments:** Homework assignments will be due approximately every two weeks. They will be posted on the course web page and should be delivered *in class on the due date*. You will have access to the answers for each of the homework problems (either from me, or in the back of the text), so it is assumed that all of your answers will be correct. I will mark a small random sample of problems on each homework. I reserve the right not to grade plagiarized, late, or illegible homework.

To understand the course material, it is necessary to get your hands dirty with many exercises. Do a few problems every night rather than saving them up until the due date. I will also recommend problems beyond the homework to help you further master the material. And don’t forget: getting the wrong answer is often more valuable than getting the right one.

**Collaboration Policy:** I encourage you to talk with your classmates and with me about homework problems, but *you must write up your solutions by yourself*. Also, academic honesty dictates that you should give credit on your homework to all of the people with whom you discussed the problems. Please do this at the end of your assignment.

**Intellectual Property:** I hold the copyright for any materials that I produce for this course. Please do not redistribute any of these materials — either physically or electronically — without my explicit permission.