Math 242, Sections 7,8  
Fall 2015 Syllabus

Instructor: Gautier Picot  
Office: PSB 320  
Office Hours: M and T 10:30am–11:30pm, W 2:30pm–3:30pm, TR 1:30pm–2:30pm and by appointments.  
Email: gautier@math.hawaii.edu  
Website: http://www.math.hawaii.edu/~gautier/242.html  
Class Meeting: T and TR 9:00 – 10:15 a.m. in Keller 302  
Prerequisite: A grade of C or better in Math 241 or 251A, or a grade of B or better in Math 215.

All major announcements will also be posted to the course website (e.g. exams, homeworks...).

Text: *University Calculus* by Hass, Weir, and Thomas. This is the book used in Math 241.

Course Description: Math 242 is the second semester calculus course; the prerequisite is Math 241 or similar. In Math 241–242 we discuss the fundamental notions of calculus of a single variable. The second semester focuses on techniques of integration, numerical sequences and series, and power series; we will also briefly discuss some elementary topics from differential equations. This means that we will be covering Chapters 7 to 9 and parts of Chapters 16 and 17 of the textbook; we will cover these chapters in order.

Approximated timeline:  
Chapter 7, Transcendental functions, week 1-3  
Chapter 8, Techniques of integration, week 4-7  
Chapter 9, Infinite sequences and series, week 8-12  
Chapters 16 and 17, Differential Equations, week 13-15

Homework: Homework will be assigned each week on Thursday, starting from August 27th, on the course website and will be due on the next Tuesday. In addition, for each section covered in class, a list of non mandatory suggested problems from the textbook will be posted on the course website, to help you to study and to get ready for the midterm and final exams.

Exams: There will be three in-class exams.

- First exam: Tuesday, September 22nd on chapter 7.
- Second exam: Tuesday, October 20th on chapter 8.
- Third exam: Tuesday November 24th on chapter 9

Grading: Homework counts 20%, in-class exams count 45%, and the final exam counts 35% of the final grade. The worst homework and the worst in-class exam will be dropped, if and only if all the homeworks are turned in and all the in-class exams are taken.

Collaboration: You are encouraged to study together, and to consult me as much as you want. Talking about mathematics with other people is one of the best ways to learn it. However, exams are individual activities, with no collaboration of any kind allowed. The departmental statement
of academic expectations applies to all students and can be found on the Math Department web page: www.math.hawaii.edu under the tab Undergraduate.

Final Exam: There will be a common, cumulative final exam on Wednesday, December 16th, from 12:00pm to 2:00pm for all the sections of Math 242. **Early or late exams will not be given.** By registering for this section, you are accepting the fact that you must be present during the scheduled final exam.