Math 252 - 50436 - Integral Calculus
Syllabus - OSU - Spring 2012

Instructor: Filix Maisch          e-mail: maischf@math.oregonstate.edu
Meetings: MWF 9 - 9:50 AM         phone: 541-737-7127
Room: KIDD 364                office: KIDD 332
Text: Calculus, Early Transcendentals, Briggs, Cochran
Web: people.oregonstate.edu/~maischf/

Attendance: Regular attendance will be expected, but roll will not be taken.

Honor Code: Students are expected to be familiar with Oregon State University’s Statement of Expectations for Student Conduct. Please review this statement at the following web link:
http://oregonstate.edu/admin/stucon/achon.htm

Accommodations: Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term. Students who believe they are eligible for accommodations should contact DAS immediately at 737-4098.

Course Description: This course is a survey of integration, including definite integrals, integral tables, basic techniques of integration, the calculus of logarithmic and exponential functions, polar coordinates, applications to areas, volumes, force, work, and growth and decay problems.

Schedule: See web for tentative term schedule.

Evaluation: Your grade is determined by online homework, recitation quizzes, unannounced true-false discussion quizzes, two group midterms and a final. Your final percentage (if higher) can replace the worse of your two midterms. Here is the point breakdown:

- Homework - 90 (Multiply your average homework percentage by 90 and round up.)
- Recitation Quizzes - 80 (Top eight of nine recitation quizzes worth 10 points each.)
- T/F Quizzes - 30 (Top three of four true-false quizzes worth 10 points each.)
- Midterms - 100 each (April 24th at 7 PM, May 15th at 7 PM, location: TBAD)
- Final - 200 (June 12th at 7:30 AM, location: TBAD)

Grades will not be harder than:
540 - 600 A/A-, 480 - 539 B+/B/-, 420 - 479 C+/C, 360 - 419 D, 0 - 359 F.

I do not use blackboard. I encourage you to come to my office hours if you do not know how many points you have accumulated. At the end of this syllabus you have a page on which you can record your scores.
Homework: Homework is online. See the instructions on the web, where there is also a list of suggested exercises from the text.

Course ID: maisch34715  
Course Name: Math252MWF9AM

Resources: The Math Learning Center is in Kidder 108H and is a great place to drop in for help. It is open from 9 AM to 4 PM, Monday through Friday, from the second week onward. I hold office hours there on Fridays.

Tests: You are allowed both sides of one 3x5 inch handwritten note card for each midterm and both sides of one 4x6 inch handwritten note card for the final exam.

Quizzes: No resources are allowed on the in-class unannounced true-false discussion quizzes, but you are intended to share your reasoning with fellow students. No resources are allowed on the recitation quizzes, but they will consist of 2 – 3 problems drawn directly from the suggested homework, and can be done in groups (of up to 3) or individually. Everyone is responsible for their own individually written submission. Starting the second week you will take one recitation quiz per week in numerical order.

Specific Learning Outcomes:
1. Describe the definite integral as a limit of Riemann sums and illustrate and interpret definite integrals as areas and signed areas.
2. Apply the fundamental theorem of calculus to evaluate integrals and to differentiate integrals with respect to a limit of integration.
3. Use integration to find areas and volumes of regions and calculate physical quantities such as total distance traveled, displacement, work, and center of mass.
4. Evaluate integrals using basic numerical integration rules.
5. Use first order differential equations to model and solve problems of growth and decay, cooling, and mixing.
Write down your scores!

(1) Quiz 1: ......out of 10

(2) Quiz 2: ......out of 10

(3) Midterm 1: ......out of 100

(4) Quiz 3: ......out of 10

(5) Quiz 4: ......out of 10

(6) Quiz 5: ......out of 10

(7) Midterm 2: ......out of 100

(8) Quiz 6: ......out of 10

(9) Quiz 7: ......out of 10

(10) Quiz 8: ......out of 10

(11) Quiz 9: ......out of 10

(12) Homework: ......out of 90

(13) True-False Quiz 1: ......out of 10

(14) True-False Quiz 2: ......out of 10

(15) True-False Quiz 3: ......out of 10

(16) True-False Quiz 4: ......out of 10

(17) Final: ......out of 200