Instructor: Filix Maisch

phone: 541-737-7127 (I never check voicemail.)

Meetings: MWF 3 - 3:50 PM (and a 50-min. recitation on Tue)

Room: WNGR 153

Text: Brief Calculus and Its Applications, Goldstein, et al. (13th edition ... or ... 2nd custom edition for OSU)

Web: people.oregonstate.edu/~maischf/

Enforced Prerequisites: Math 111 with a C- or better ... or ... an ALEKS math placement test score of 60% ... or ... a math placement test score of 24.

Attendance: Regular attendance to lecture and recitation is expected.

Honor Code: Students are expected to be familiar with Oregon State University’s Student Conduct Code. Please review this statement at the following web link:
http://studentlife.oregonstate.edu/studentconduct/university-policies

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 elementary differential and integral calculus of polynomial, logarithmic, and exponential functions and their applications to business, management and social science.

Schedule: See the course web page for a tentative term schedule.

Evaluation: Your grade is determined by online homework, recitation labs, unannounced in-class true-false discussion quizzes, two evening midterms, and a final. Your final performance, scaled from 160 to 80, can replace the worst of your two midterms. Here is the point breakdown:

- Homework ............... 60 (Take your avg. homework percentage of 60 and round up.)
- Recitation Labs ...... 90 (Top nine of ten recitation labs worth 10 points each.)
- T/F Quizzes ............ 30 (Top three of four true-false quizzes worth 10 points each.)
- Midterm 1 ............... 80 (8:30 – 9:50 PM, Tuesday, Jan. 27th, Location: TBA)
- Midterm 2 ............... 80 (8:30 – 9:50 PM, Tuesday, Feb. 17th, Location: TBA)
- Final ..................... 160 (7:30 – 9:20 AM, Monday, March 16th. Location: TBA)

Grades will not be harder than:
450 - 500 A/A-, 400 - 449 B+/B/-, 350 - 399 C+/C, 300 - 349 D, 0 - 299 F.

I do not use blackboard/canvas. At the end of this syllabus you have a page on which you can record and track your scores.
Homework: Homework is online through www.mymathlab.com. On the web page there is also a list of suggested exercises from the text. You should consider these as exam review problems. For each midterm/final, I plan on including at least one problem from this list as an exam problem!

Course ID: maisch30589 Name: Math241Winter2015

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 volunteer there for an hour on Fridays at 2 PM. Treat this as an additional office hour.

Tests: Note that no calculators of any kind are allowed on either midterm nor the final. 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. Scaled by 0.5, your final exam can replace your worst midterm if your performance on the final is better than your worst midterm. Tests cannot be taken early/late unless there are exceptional circumstances.

Note: For each Tuesday evening midterm a lecture must be canceled (dates TBA).

T/F Quizzes: No calculators nor resources (notes, internet, etc.) are allowed on the unannounced in-class true-false discussion quizzes, but you are intended to share your reasoning with fellow students and discuss the questions out loud! These quizzes can occur anytime during class, so try not to be late to lecture.

Recitation Labs: Labs are due at the end of recitation on the dates shown in the tentative term calendar, except for the last lab, which is due at the start of the final. The labs are posted online, and it is your responsibility to print and bring them to recitation. Late labs are only accepted at the discretion of your recitation instructor.

Bacc Core: This course counts toward Baccalaureate Core in the Skills category of Mathematics. The following are the student learning outcomes for this category:

1. Identify situations that can be modeled mathematically.
2. Calculate and/or estimate the relevant variables and relations in a mathematical setting.
3. Critique the applicability of a mathematical approach or the validity of a mathematical conclusion.

Specific Learning Outcomes:

1. Demonstrate a conceptual understanding of elementary differential and integral calculus of polynomial, exponential and logarithmic functions, including the definition of the derivative, differentiation rules, derivative tests for extremes, anti-derivatives and the Fundamental Theorem of Calculus.
2. Apply calculus in business, economics and elementary physics, including supply and demand functions, cost, revenue and profit functions, marginals, maximizing revenue and profit, minimizing cost and average cost, exponential growth and decay, compounded interest, and velocity and acceleration.
3. Demonstrate ability to perform accurate computations involving differential and integral calculus.
4. Demonstrate ability to be highly-organized and logical in the process of problem solving.
5. Demonstrate ability to communicate observations of applications to others in an oral form.
Write down your scores!

(1) Lab A: ......out of 10
(2) Lab B: ......out of 10
(3) Lab C: ......out of 10
(4) Midterm 1: ......out of 80
(5) Lab D: ......out of 10
(6) Lab E: ......out of 10
(7) Lab F: ......out of 10
(8) Midterm 2: ......out of 80
(9) Lab G: ......out of 10
(10) Lab H: ......out of 10
(11) Lab I: ......out of 10
(12) Lab J: ......out of 10
(13) Best 9 of 10 Labs: ......out of 90
(14) Homework: ......out of 60
(15) True-False Quiz 1: ......out of 10
(16) True-False Quiz 2: ......out of 10
(17) True-False Quiz 3: ......out of 10
(18) True-False Quiz 4: ......out of 10
(19) Best 3 of 4 True-False Quizzes: ......out of 30
(20) Final: ......out of 160