Math 2210 Syllabus, Fall 2011

Instructor: Dan Stanescu, RH218.

Contact info: stanescu@uwyo.edu, (307) 766-4380.

Office hours: T 11AM-12 noon, F 2-3PM. If you can’t make it to the scheduled hours please call or email for an appointment.

Class schedule: MTWF from 9 - 9:50AM in CR215.

Course objectives: This course will prepare you for other courses such as computer graphics, statistics, economics, strength of materials, electricity and magnetism, thermodynamics, physical chemistry, and fluid dynamics - to name a few. We will discuss vector algebra, analytic geometry, dynamics, partial differentiation, integration over lines, areas, surfaces and volumes, and finally, Green’s Theorem, Stokes’ Theorem, and the Divergence Theorem (or Gauss’ Theorem).

Text: Calculus, Early Transcendentals, 1st Ed by Jon Rogawski. This course covers most of chapters 11 through 17. A tentative schedule is included with this syllabus.

Prerequisites: Grade of C or better in MATH 2205 or Advanced Placement credit in MATH 2205. You should know or be able to derive most of the formulas listed on the reference pages located inside the front or rear cover of the textbook. You should remember enough from earlier courses to readily pass the Calc 1 and 2 gateways.

Disability Statement: If you have a physical, learning, or psychological disability and require accommodations, please let me know as soon as possible. You must register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 330 Knight Hall. 766-6189, TTY: 766-3073.

Attendance Policy: University sponsored absences are cleared through the Office of Student Life (UW Regulation 6-713). Students with official authorized absences are permitted to make up work without penalty in classes missed. Beware, a make-up exam could be harder than the original.

Academic Honesty: The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty (UW Regulation 6-802) is unacceptable to our community and will not be tolerated.

Civility: Our mutual responsibilities are explained in the document "A & S Students and Teachers - Working Together” (uwadmnweb.uwyo.edu/a&s/Current/default.asp). Unsanctioned talking, use of cell phones and ipods, eating, sleeping, and reading unrelated materials during class are considered rude and disruptive behaviors. Students who persist in rude or disruptive behavior may be dropped from the class after a suitable warning.

Course Supervisor: Talk to me if you are unhappy about some aspect of the course. If a problem remains unresolved after our discussions talk to the course supervisor, Charlie Angevine (RH 206, (307) 314-9803, angevine@uwyo.edu).

Calculator Policy: Graphing calculators are not allowed at exams (the exams are designed so that a calculator is unnecessary). If walking into an exam without a calculator scares you, bring an inexpensive scientific calculator capable of exponential, log, and trig calculations. The TI-30Xa and HP-10s fit the bill and each sells for less than $10. Calculators may not be shared at exams.

Homework: Homework is essential to learn the course material. Before starting assigned homework problems study the worked examples in the text.

Homework assignments will be on the WeBWork server (webwork.uwyo.edu). Your scores on WeBWork assignments count for 15% of your grade.

WeBWork has pluses and minuses. It quickly tells you whether your answer is correct, but it won’t force you to write out formal solutions. To prepare for exams (where you will be expected to show your work) write out full solutions to the problems (and keep them in a folder or notebook).
Quizzes: Expect a short quiz every week or so. Quizzes will consist of 1 or 2 problems from a section covered the previous week. There will be no make-up quizzes, but, your lowest quiz score will be dropped. The quizzes count for 15% of your grade.

Common Exams: There will be 3 midterm exams and a comprehensive final exam. Each of the midterm exams will count for 16% of your grade; the final exam counts for 22%. A copy of the exam from last semester, a list of review problems, and an equation sheet will be distributed prior to each exam. You may use a basic non-graphing calculator during exams, but calculators may not be shared. The equation sheet will be provided with your exam; no other aids are allowed. The tentative exam schedule is

- Exam 1 (16%): Thursday, September 15 from 5:15 to 7 pm, BU
- Exam 2 (16%): Thursday, October 13 from 5:15 to 7 pm
- Exam 3 (16%): Thursday, November 10 from 5:15 to 7 pm
- Final Exam (22%): Wednesday, December 7 from 1:15 to 3:15 pm

Grading Policy: Our scheme for assigning course grades is generally 90 - 100% A; 80 - 89% B; 70 - 79% C; 60 - 69% D; less than 60% F. As there is no curve it is possible for everyone to earn an A in this course. You may calculate your course grade during the semester using the formula

\[ \text{Total Score} = 0.15 \times (\text{Quiz Average}) + 0.15 \times (\text{Homework Average}) + 0.70 \times (\text{Exam Average}) \]

To calculate your Quiz Average, sum your quiz scores and then sum the total number of points on each quiz. Divide the former by the latter. For example, if your quiz scores are 4, 5, and 4 and each quiz is worth 5 points then your Quiz Average is \((4 + 5 + 4) / (5 + 5 + 5) = 13 / 15 = 0.867\).

Calculate your Homework Average in the same way. The Exam Average will be a weighted average of your four exam scores; but prior to the final examination you may approximate your Exam Average using the same method used to calculate the Quiz Average.

Message from the lawyers: The information in this syllabus is tentative and subject to change at the discretion of the instructor. Changes to the syllabus will be announced in class.