Math 2200 — Section 02
Calculus I
Fall 2012

Syllabus

Instructor: Keivan Hassani Monfared
Office: Ross Hall 207
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Office Hours: By appointment
Class: MTWF 9:00 – 9:50 in CR 118

Prerequisites: Grade of C or better in MATH 1405 or MATH 1450, or Level 5 on the Mathematics Placement Exam within one year prior to the start of the course, or ACT 27.

Textbook and WebAssign: We use the textbook *Calculus, Early Transcendentals* by James Stewart, 7th Edition, ISBN 978-0-495-96224-3. Also, most of the homework will be done through the software called WebAssign. Go to `www.webassign.net` and register using the class key **uwyo 8602 8090**

You must purchase access to WebAssign if you have not already done so in a previous semester. The easiest option is to buy access bundled with the textbook at the UW bookstore. You may also buy access directly at `www.webassign.net` after you have set up your account, but this will not come with a hardcopy version of the textbook.

Purchasing a physical copy of the textbook is highly recommended for ease of use and for availability during class. However, an ebook copy will be available through WebAssign to all students.

Homework and Quizzes: In addition to the problems on WebAssign, several homework problems will also be assigned in class on a regular basis. These are intended to be written out **neatly** on paper and handed in. Quizzes may also be given in class to check your understanding.

Exams: There are three mid-term exams and a **comprehensive** final exam. The exams, including the final, are common to all coordinated sections of Math 2200 and will be administered outside the regularly scheduled class time (see below). Attendance is required and a make-up exam will **only** be administered in extreme cases **and only** if there is a university excused absence. University excused absences must be cleared through the Dean of Students Office (766-3296) and with me at least one week before the exam is to be administered. The make up exams cannot be taken after one week from the original exam.

Grading Policy: Your percentage grade is determined by the following:

WebAssign	20%	
Homework/Quizzes	10%	
Exam 1	15%	Thurs Sept 20, 5:15 pm – 7:00 pm
Exam 2	15%	Thurs Oct 18, 5:15 pm – 7:00 pm
Exam 3	15%	Thurs Nov 15, 5:15 pm – 7:00 pm
Final Exam	25%	Thurs Dec 13, 3:30 pm – 5:30 pm

Your letter grade will be determined from your percentage grade as follows: $\geq 90\%$ is an A, $80\% - 89\%$ is a B, $70\% - 79\%$ is a C, $60\% - 69\%$ is a D, and $< 60\%$ is an F. You must achieve a C or higher to use this course as a prerequisite for other math courses.

Gateway Exam: Our course emphasizes depth of understanding of calculus, rather than facility with handling drill-type problems. However, in order to ensure that all students achieve a minimum level of basic skills, each student is expected to pass a Gateway Exam focusing on pure and simple drill. No calculators or help sheets may be used on this exam, and a near-perfect score (at least 6 out of 7) is required in order to pass, with no partial credit being awarded in the case of errors. The Gateway Exam, as well as practice exams will be made available later in the semester. The penalty for failing to pass the Gateway Exam will be the loss of a full letter grade for the course.

Course Supervisor: Come to me if you are (un)happy about some aspect of the course. In the event that a problem remains unresolved after our discussions, talk to Dr. N. Clements, the Calculus Supervisor (RH 304, (307) 314-9360, calculus@uwyo.edu).

Getting Help: You are encouraged to work in groups as much as possible on homework. Often, having a second perspective helps in the understanding process. You are also welcome to stop by my office at any time to see if I am available. Additionally, the tutors in the Math Lab in Ross Hall 29 (northwest corner on bottom floor) will be able to help you.

Math 2200 has dedicated Supplemental Instruction sessions offered through the SI leader Ben Steer. These sessions are informal sessions where students work together to review topics and get help with mathematics. Details to when and where such sessions are offered will be given in the first few days of class.

Finally, Tau Beta Pi, the Engineering honor society, offers free tutoring in many engineering, mathematics and science courses. See `wwweng.uwyo.edu/societies/tbp` for more information.

Goals of Math 2200: This course fulfils the Quantitative Reasoning 2 (QB) requirement of the University Studies Program. QB courses develop a student's numerical, logical, geometric, algorithmic and critical thinking skills as well as their ability to integrate these ways of thinking with verbal, written and creative thinking skills. Students will demonstrate mathematical and logical skill needed to formulate, analyse and interpret quantitative arguments in a variety of settings.

Calculus, one of the classical topics in mathematics, is the study of change. It is useful both in scientific fields and in applied studies from engineering to the life sciences. The primary goals of this course are to master the fundamental concepts and techniques of differential calculus in one variable, and to develop problem solving and critical thinking skills. By the end of this course, students should be able to

- Apply differential calculus concepts to a variety of applications.
- Use algebraic, graphical and numerical skills and thinking to solve problems that involve concepts of differential calculus.
- Manipulate and compare graphical, numerical and algebraic representations of mathematical relationships.
- Approach problem solving from a conceptual point of view.
- Read and understand mathematics, think critically, and express mathematical concepts precisely in writing.
- Apply the knowledge gained in this course to other situations and disciplines.
- Understand the use (including both the power and the limitations) of appropriate technology (computer software and/or advanced calculators) in solving problems in differential calculus.
- Be prepared to take Calculus II.

Academic Dishonesty and Classroom Conduct: 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 (see UW Regulation 6-802) is unacceptable to our community and will not be tolerated.

You are expected to avoid any behaviours that would be disruptive in class. I reserve the right to ask you to leave or to put away any devices that are not helpful should I deem it necessary. Persistence in such behaviour may get you dropped from the course. Please see the document entitled *Students and Teachers – Working Together* produced by the UW College of Arts and Sciences for more information.

Disability Statement: If you have a physical, learning, or psychological disability and require accommodations, 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.

The policies in this syllabus are subject to change. It is your own responsibility to keep updated on these changes.