Math 2200 Calculus I Section 01
Syllabus – Fall 2015

Instructor: Andrew W. Herring
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Office Hours: T 1:00-2:00pm (**RH 207**), R 2:00-4:00pm (**MAC**) or by appointment
Class: MTWF 8:00-8:50 in EN 3070
Course Website: `www.uwyo.edu/calculus/2200`

Prerequisites: The prerequisite for Math 2200 is either a C or better in MATH 1405 or MATH 1450, a Mathematics Placement Exam score of 5 within one year prior to the start of the course, or ACT math score of 27. You must earn a C or better in this course to enroll in Calculus II.

Textbook and Software: For this course you will need:

- An access code for MyMathLab. This and the textbook can be purchased bundled in the University Store. Alternatively you can buy just the access code the first time you access MyMathLab. If you have taken this course at UW in the Spring or Summer, you may use the access you purchased then.
- A 6-week access code for ALEKS (ISBN 9780077212018). This can be purchased either through the University Store or online the first time you access ALEKS.
- A scientific non-graphing calculator such as a TI-30X.
- (Recommended) A physical copy of the textbook, *Calculus, Early Transcendentals*, by Briggs, et. al., 2th Edition, ISBN 9780321965172. You will have access to an electronic version through MyMathLab whether you purchase the physical book or not.

Exams: All four exams 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 documentation from a proper authority, such as a note from a physician in the case of illness. In order for you to be excused from the regular time, you must have a University excused absence, cleared through the Dean of Students Office (766-3296) and you must fill out the Exam Conflict form on the course website at least one week before the exam is to be administered.

On Exams, you may use a scientific non-graphing calculator. Graphing calculators and notes may not be used used on exams under any circumstances. The final exam will be comprehensive.

You exams will be taken Thursday evenings in AG 1032 on the days listed below.

Homework:

MyMathLab: You will be expected to complete your MyMathLab Homework each time it is assigned. After every 2-3 homework sets in MyMathLab, you will take a Knowledge Check in MyMathLab that will check to see if you have retained the material of those sections.

ALEKS: During the first four weeks of the course you will be working in ALEKS. ALEKS is used in this course to determine what you have retained from your prior math classes. It will build a customized curriculum path to help you learn the material you have not retained or learned. ALEKS regularly checks your progress by sending you Knowledge Checks. These Knowledge Checks confirm that you have learned the material you have been practicing. *Please read the page on ALEKS on the course website to know how to enroll in ALEKS.* Your first deadline in ALEKS is Sept 8th. By this date you will need to have done three things. You must have (1) taken the Initial Knowledge Check, (2) achieved at least 40% of the topics required for the course (many of you will get most of these in the Initial Knowledge Check), (3) spent a total of 5 hours in ALEKS (even if you go beyond 40% of the topics). Each Monday you will have to have achieved at least 5 hours in ALEKS for the week and have achieved a certain percentage of the ALEKS content (first 40%, then 60%, then 75%, then 80%). *If you complete all 80% by Sept 15, you will get 5 extra credit points,* and your ALEKS responsibilities will be done. Regardless of when it is achieved, once you reach 80% your ALEKS responsibilities are done.

Written Homework: At least weekly you will be assigned written homework out of the textbook or other sources.

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

Exam 1	100 pts	Thurs Oct 1, 5:15 pm – 7:00 pm
Exam 2	100 pts	Thurs Oct 29, 5:15 pm – 7:00 pm
Exam 3	100 pts	Thurs Dec 3, 5:15 pm – 7:00 pm
Final Exam	75 pts	Thurs Dec 17, 3:30pm – 5:30pm
MyMathLab Homework	100 pts	
Written Homework	75 pts	
ALEKS Algebra Review	50 pts	
Total	600 pts	

You can estimate your letter grade by using the following scale: $\geq 90\%$ is an A, $80\% - 89\%$ is a B, $70\% - 79\%$ is a C, $60\% - 69\%$ is a D, and $<60\%$ is an F. Plus/Minus Grades will not be awarded. You must achieve a C or higher to use this course as a prerequisite for other math courses.

Getting Help: On of the most important skills a student can learn is recognizing early that they are confused with some concept or skill in the class. Once you recognize you need help, first check through your materials, such as class notes, to see if the answer is there. If you cannot solve it yourself, *please seek help*. There are lots of resources available to you to help you succeed.

Study Groups: Meet with some of your classmates and help each other with questions. Learning from your peers is one of the best ways to learn.

Office Hours: I cannot encourage you strongly enough to come to office hours! This is your best opportunity to have your question answered by someone qualified to answer it-me! You are also encouraged to go to the office hours of other Math 2200 instructors-they are all incredibly experienced teachers. Please look up their office hours on the board in front of Ross Hall 202. The other instructors are: Andrew Herring, Dongyang Kuang, Hayoung Choi, Jeff Selden, Chanyoung Shader, Man-Chung Yeung, and Lynne Ipiña.

Supplemental Instruction: SI is a series of out-of-class study sessions led by Leanna Kent. It's a great way to practice the material and work with other students to learn the content. ... will be holding sessions at ... in ... and will have drop-in office hours at ... in ... See the course webpage for more information.

MAC The Math Assistance Center (MAC) is a free walk-in tutoring center for students enrolled in 1000 and 2000 level math courses. It is in Ross Hall 29 (northwest corner, on bottom floor). They are open most daylight hours. You can even go there to do your homework; you do not have to ask any questions or to seek any help. It is also a good place to meet for your study groups. The MAC has several desktop computers that you can use to do your online homework.

STEP Tutoring: The STEP Tutoring Center in the Coe Library offer walk-in one-on-one tutoring for Calculus students from 6:00pm to 10:00pm. Check in at the Research Help Desk. Please check the website at `http://www.uwyo.edu/studentaff/step/tutoring/` for more information.

eTutoring: The University of Wyoming offers online tutoring. Please see `http://www.uwyo.edu/studentaff/step/tutoring/resources/` for more information.

Tau Beta Pi: The Engineering Honor Society provides tutoring for a variety of math and engineering classes. See `http://www.uwyo.edu/ceas/current-students/Tutoring.pdf` for more information.

Walk-In Academic Coaching The Center for Advising and Career Services in 222 Knight Hall offers walk-in coaching to any student. They can help on a variety of topics, such as Note Taking, Time Management, Exam Preparation, Textbook Reading, Staying Motivated, Managing Finals, etc.

Student Learning Center in Washakie: The Student Learning Center (SLC), located in the lower level of the Washakie Center, offers free academic support services to students on a drop-in basis Sunday through Thursday. Please see `http://www.uwyo.edu/reslife-dining/slc/` for more information.

Course Supervisor: Come to me if you are unhappy about some aspect of the course. In the event that a problem remains unresolved after our discussions, talk to Dr. N. Clements, the Math 2200 Supervisor, (RH 316, 307-314-9360, calculus@uwyo.edu).

Goals of Math 2200: This course fulfills the Quantitative Reasoning 2 (QB) or Qualitative (Q) requirement of the University Studies Program. QB and Q 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, analyze 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

- Use algebraic, graphical and numerical skills and thinking to solve problems that involve limits and derivatives.
- Apply differential calculus concepts to a variety of applications.
- Manipulate and compare graphical, numerical and algebraic representations of mathematical relationships involving limits and derivatives.
- Calculate integrals using both the definition of the integral, and the Fundamental Theorem of Calculus.
- Manipulate and compare graphical, numerical and algebraic representations of mathematical relationships.
- 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.
- 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 behaviors 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 behavior 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, 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.

The policies in this syllabus are subject to change. Minor changes will be announced in class and substantive changes shall be communicated in writing.