Math 2200 Calculus I Section 02
Syllabus—Fall 2016

Instructor: Professor Eric Moorhouse
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Office Hours: www.uwyo.edu/moorhouse/schedule.html
Class: MTWF 8:00–8:50 in BU 21
Section 02 Website: www.uwyo.edu/moorhouse/courses/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 be admitted in Calculus II.

**Textbook and Software:** For this course you will need:

- An access code for Pearson/MyMathLab. Follow the instructions at http://www.uwyo.edu/moorhouse/courses/2200/DDA_Letter.pdf and use the course ID moorhouse22261 for our section (Math 2200-02). Through the UW Bookstore, we have negotiated the best price available for you. The Direct Access contract with the publisher, which begins this Fall 2016 semester with Calculus I, means that you will automatically be billed for this direct access (a one-time payment which will suffice for the entire course sequence Calculus I-II-III). During the first two weeks of classes, you have the opportunity to opt out of this agreement as explained on the instructions (e.g. if you have already paid for access to MyMathLab, possibly in a previous semester) but after September 9, 2016, opting out will no longer be possible.

- A scientific non-graphing calculator such as a TI-30X.

- (Recommended) A physical copy of the textbook, *Calculus, Early Transcendentals* by Briggs & Cochran, 2nd Edition, is highly recommended. You will have access to an electronic version through MyMathLab whether you purchase the physical book or not. You are required to read all relevant sections of the textbook preferably before coming to class.

**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 only if there is documentation from a proper authority, such as a note from a physician in the case of illness. If you know that you will be missing an exam, please talk to your instructor or the course coordinator at least one week before the exam will be administered. If you have any questions about the exam time, please email the course coordinator at calculus@uwyo.edu.

Exams will be comprehensive. Midterm Exams I, II and III, and the Final Exam are scheduled at the dates/times listed below; and locations will be announced later during the semester.

**Homework:**

**MyMathLab:** Most sections in the book have a corresponding homework set. One these homework sets you have as many tries on each problem as you need with all software aides available (such as videos and examples). 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. You will be given two attempts to do the Knowledge Check. You will need to achieve 70% on each homework set pertaining to the Knowledge Check before you can have access to them.

**Algebra Activities in MyMathLab:** Before every other or every third homework set in MyMathLab you may either take a short Algebra Quiz or do an Algebra Study Plan. You must perform satisfactorily on at least one of these in order to access the Knowledge Check above (either by getting the necessary score on the Quiz or by getting Mastery Points on the Study Plan). In each Study Plan, you will be given five to eight Algebra topics and will be able to Practice as many problems in each topic as you want. When you feel ready on the topic, you may select “Quiz Me” on that topic. Each “Quiz Me” you master will give you a Mastery Point on that Study Plan.

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

The policies in this syllabus are subject to change. Minor changes will be announced in class and substantive changes shall be communicated in writing.
Grading Policy: Your percentage grade is determined by the following:

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<th>pts</th>
<th>Date</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>100</td>
<td>Thurs Sept 22, 5:15–7:00 pm</td>
</tr>
<tr>
<td>Exam 2</td>
<td>100</td>
<td>Thurs Oct 20, 5:15–7:00 pm</td>
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<tr>
<td>Exam 3</td>
<td>100</td>
<td>Thurs Nov 17, 5:15–7:00 pm</td>
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<tr>
<td>Final Exam</td>
<td>100</td>
<td>Tues Dec 13, 3:30–5:30 pm</td>
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<tr>
<td>MyMathLab Homework</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>Written Homework</td>
<td>75</td>
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Total 600 pts

You can estimate your letter grade by using the following scale: 90–100% is an A, 80–89% is a B, 70–79% is a C, 60–69% is a D, and 0–59% is an F. Plus/Minus Grades will not be awarded, except in very rare circumstances upon the discretion of the instructor. You must achieve a C or higher to use this course as a prerequisite for other math courses.

How to be Successful in Calculus:

Time Management: Calculus is a Four Credit class. This means you should be spending 8 to 12 hours a week on this course outside of the time in class. Most weeks you will be spending this time on doing your MyMathLab homework, and working on and writing up the Written Homework.

MyMathLab: Students are sometimes tempted to use online calculators and computational engines to compute their online homework for them. Those that use such resources are not using MyMathLab in a way that will help them to learn. Getting a few problems wrong on MyMathLab and then asking for help on that problem will help you to master the material to do well on the exams.

Written Homework: The primary purpose of written homework is to provide feedback on your mathematical writing skills. When you submit your work, make sure that your work is organized, properly spaced out and easy to read.

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: My office hours (subject to change as noted above) are posted at www.uwyo.edu/moorhouse/schedule.html. Please seek me outside of class if at all possible; and if these times are not convenient, we should be able to arrange an alternative time. I am here to help you. You are also encouraged to go to the office hours of other Math 2200 instructors. Please look up their office hours on the board in front of Ross Hall 202.

The Math Assistance Center(MAC): The MAC is a free drop-in tutoring center for students enrolled in 1000 and 2000 level math courses. It is located in Ross Hall 29 (northwest corner, on bottom floor). They are open Monday-Thursday 10am–5pm and Friday 10am–1pm. It’s also a great place to study, work on homework, or meet with study groups. They have copies of current textbooks for students to borrow while there as well as several desktop computers, a printer, and two study rooms.

Supplemental Instruction(SI): SI is a series of out-of-class study sessions. The SI leader for this course is Emily Clare Shaw (eshaw@uwyo.edu). Weekly sessions and office hour are both held in the MAC. It’s a great way to practice the material and work with other students to master content. For the SI schedule and access to other materials join the SI WyoGroup for this course by going to http://tinyurl.com/uwmath2200.

STEP Tutoring: The STEP Tutoring Program offers walk-in one-on-one tutoring for Calculus students in Coe Library. Hours are Sunday-Thursday 6:00pm to 10:00pm. Check in at the Research Help Desk on the main level. For more information visit http://www.uwyo.edu/studentaff/step/tutoring/

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](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/](http://www.uwyo.edu/reslife-dining/slc/) for more information.

It is important that you try a variety of different services. If you do not receive the help you need at that time, please try it again or try a different service. Don’t be shy. Make sure you get the help you need!

**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 Eric Moorhouse, the Math 2200 Supervisor, (RH 216, 307-766-4394, 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. This document is mirrored on my course website.

**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.