

MATH 2205: Calculus II

University of Wyoming, Summer 2019
Syllabus

Instructor	Libao Jin	Course Dates	05/28/2019 – 07/05/2019
Office	Ross Hall 205	Class	M–F 10:35 AM–12:35 PM Engineering 2102
Email	ljin1@uwyo.edu	Office Hours	M–F 02:00 PM–03:00 PM & by appointments

Course Description

Continues MATH 2200. Includes elementary functions, derivatives, integrals, analytical geometry, infinite series and applications. **Prerequisite** Grade of C or better in MATH 2200 or *Advanced Placement* credit in MATH 2200.

Textbook and Software

For this course you will need:

- An access code for MyMathLab. If you have taken a calculus course at UW, you should be all set with this. If not, the Inclusive Access program should automatically charge your University account for access to MyMathLab.
- (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. It is your responsibility to have access to a version of the textbook that you feel comfortable using.
- A scientific non-graphing calculator such as a TI-30X.
- Wolfram Mathematica, you can get free software through <https://uwyo.teamdynamix.com/TDClient/Requests/ServiceDet?ID=9596>.

MyMathLab (MML)

This is an online system operated by Pearson that provides you with the opportunity to practice the techniques discussed in class. We will distribute assignments through MML.

Goals of Math 2205

This course fulfills the Quantitative Reasoning (Q) requirement of the 2015 University Studies Program. Students will learn to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. The elements of the Quantitative Reasoning (Q) experience may include numerical, logical, geometric, and algorithmic thinking as well as the integration of these modes of analysis with students' verbal, creative, and critical-thinking skills. Students should demonstrate mathematical and logical skills 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 integral 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 concepts of integral calculus.
- Apply integral calculus concepts to a variety of applications, such as computing volumes of a solid, lengths of a curve, or work.
- Use algebraic, graphical, numerical skills, and critical thinking to solve problems that involve the convergence of sequences or series.
- Use parametric or polar representations of functions to analyze problems.
- 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 III, Applied Differential Equations I, and/or Elementary Linear Algebra.

Exams

All three exams will be administered inside the regularly scheduled class time (see below). Attendance is required and a make-up exam will 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, e.g., exam conflicts or University-Excused Absences, you must notify your instructor at least one day before the exam will be administered. Notes are not allowed at the exams. While any of the three exams covers specific sections, all exams will be compressive, in the sense that you will need to apply concepts or tools from the previous sections for solving problems in the later sections.

Grading Policy

You can earn a total of 400 points in this course. The breakdown of those points is as follows:

Exam/Assignment	Mark	Date and Time	Classroom
Midterm Exam 1	100 points	June 07, 10:00 AM – 12:00 PM	BU 121
Midterm Exam 2	100 points	June 21, 10:00 AM – 12:00 PM	BU 121
Final Exam	100 points	July 05, 10:00 AM – 12:00 PM	BU 121
Assignments	100 points		

The assignments mark is obtained by 100 times the percentage in MyMathLab. We will be using a plus/minus scale based on your percentage (divide your points by 400):

Grade	Percentage	Grade	Percentage	Grade	Percentage	Grade	Percentage
<i>A</i>	[90%, 100%]	<i>B</i>	[80%, 84%)	<i>C</i>	[70%, 74%)	<i>D</i>	[60%, 64%)
<i>A–</i>	[87%, 90%)	<i>B–</i>	[77%, 80%)	<i>C–</i>	[67%, 70%)	<i>F</i>	[0%, 60%)
<i>B+</i>	[84%, 87%)	<i>C+</i>	[74%, 77%)	<i>D+</i>	[64%, 67%)		

Getting Help

In addition to office hours, there are lots of resources available to you to help you succeed.

- Center for Assistance in Statistics and Mathematics (CASM). CASM 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 12 PM – 5 PM.

Additional Information

Attendance and Absence Policy

Students are expected to attend the scheduled lectures. The University sponsored absences are cleared outlined in UW Regulation 2-108 (Student Attendance Policy).

Classroom Behavior Policy

At all times, treat your presence in the classroom and your enrollment in this course as you would a job. Act professionally, arrive on time, pay attention, complete your work in a timely and professional manner, and treat all deadlines seriously. You will be respectful towards you classmates and instructor. Spirited debate and disagreement are to be expected in any classroom and all views will be heard fully, but at all times we will behave civilly and with respect towards one another. Personal attacks, offensive language, name-calling, and dismissive gestures are not warranted in a learning atmosphere. As the instructor, I have the right to dismiss you from the classroom, study sessions, electronic forums, and other areas where disruptive behavior occurs. You may not use electronic devices such as mobile phones during class. Electronic devices should be set to silent or turned off. Laptops/tablets are not allowed, unless for note-taking purposes.

Classroom Statement on Diversity

The University of Wyoming values an educational environment that is diverse, equitable, and inclusive. The diversity that students and faculty bring to class, including age, country of origin, culture, disability, economic class, ethnicity, gender identity, immigration status, linguistic, political affiliation, race, religion, sexual orientation, veteran status, worldview, and other social and cultural diversity is valued, respected, and considered a resource for learning.

Academic Dishonesty Policies

Academic dishonesty will not be tolerated in this class. Cases of academic dishonesty will be treated in accordance with UW Regulation 2-114. The penalties for academic dishonesty can include, at my discretion, an “F” on an exam, an “F” on the class component exercise, and/or an “F” in the entire course. Academic dishonesty means anything that represents someone else’s ideas as your own without attribution. It is intellectual theft-stealing and includes (but is not limited to) unapproved assistance on examinations, plagiarism, or fabrication of referenced information. Facilitation of another person’s academic dishonesty is also considered academic dishonesty and will be treated identically.

Accommodations for Students with Disabilities

The University of Wyoming is committed to providing equitable access to learning opportunities for all students. If you have a disability, including but not limited to physical, learning, sensory or psychological disabilities, and would like to request accommodations in this course due to your disability, please register with and provide documentation of your disability as soon as possible to

Disability Support Services (DSS), Room 128 Knight Hall. You may also contact DSS at (307) 766-3073 or udss@uwyo.edu. It is in the students' best interest to request accommodations within the first week of classes, understanding that accommodations are not retroactive. Visit the DSS website for more information at: <https://www.uwyo.edu/udss>.

Duty to Report

UW faculty are committed to supporting students and upholding the University's non-discrimination policy. Under Title IX, discrimination based upon sex and gender is prohibited. If you experience an incident of sex- or gender-based discrimination, we encourage you to report it. While you may talk to a faculty member, understand that as a "Responsible Employee" of the University, the faculty member **MUST** report information you share about the incident to the university's Title IX Coordinator (you may choose whether you or anyone involved is identified by name). If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are people who can meet with you. Faculty can help direct you or you may find info about UW policy and resources at <http://www.uwyo.edu/reportit>. You do not have to go through the experience alone. Assistance and resources are available, and you are not required to make a formal complaint or participate in an investigation to access them.

Student Resources

- Disability Support Services: udss@uwyo.edu, 766-3073, 128 Knight Hall, www.uwyo.edu/udss
- Counseling Center: uccstaff@uwyo.edu, 766-2187, 766-8989 (After hours), 341 Knight Hall, www.uwyo.edu/ucc
- Academic Affairs: 766-4286, 312 Old Main, www.uwyo.edu/acadaffairs
- Dean of Students Office: dos@uwyo.edu, 766-3296, 128 Knight Hall, www.uwyo.edu/dos
- UW Police Department: uwpd@uwyo.edu, 766-5179, 1426 E Flint St, www.uwyo.edu/uwpd
- Student Code of Conduct Website: www.uwyo.edu/dos/conduct
- Student Remote Lab: <https://microlab.uwyo.edu/uwsremote/>

All deadlines, requirements, and course structure is subject to change if deemed necessary by the instructor. Students will be notified verbally in class, on our WyoCourses page announcement, and via email of these changes. Minor changes will be announced in class and substantive changes shall be communicated in writing.