

Math 1220-005 Fall 2015 Calculus II

Instructor

Name: Honglu Fan

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Office Hour: M & W, 1:00-2:00 or by appointment.

There was a change of office hour. Now it is 30 minutes earlier.

Office Location: JWB328.

Class Webpage: <http://math.utah.edu/~fan/1220fall15>

Class Time and Place

M, T, W, F, 11:50 AM - 12:40 PM, WEB L110

Textbook

Calculus, with Differential Equations, by Varberg, Purcell, and Rigdon, 9th edition published by Pearson.

ISBN: 0-13-230633-6

Course Information

Math1220, Calculus 2 is a 4-credit semester course.

Prerequisites

"C" or better in (MATH 1210 OR MATH 1250 OR MATH 1270 OR MATH 1311 OR MATH 1310) OR AP Calculus AB score of at least 4 OR AP Calculus BC score of at least 3.

Course Description

Geometric applications of the integral, logarithmic, and exponential functions, techniques of integration, conic sections, improper integrals, numerical approximation techniques, infinite series and power series expansions, differential equations (continued).

Expected Learning Outcomes

Upon successful completion of this course, a student should be able to: Compute derivatives and integrals for exponential, logarithmic, hyperbolic functions, and inverse trigonometric functions. Integrate integrable functions using integration by parts, u-substitution, trigonometric substitutions, rationalizing substitutions, partial fraction decomposition, and trigonometric identities. This includes knowing which techniques to apply to a given integral. Use L'Hopital's Rule to calculate indeterminate-type limits and also know what limits are the non-indeterminate forms and how to compute those limits. Compute improper integrals. Understand the difference between an infinite sequence and infinite series and determine if a sequence converges or diverges. Determine whether or not an infinite series of numbers converges or diverges using a variety of tests. Understand what it means for a Power Series to converge or diverge and be able to find the Taylor Series for a given function. Differentiate and integrate functions in polar coordinates.

Homework

Homework will be posted on WebWork.

(<https://webwork3.math.utah.edu/webwork2/math1220fall2015-5/>).

There will be a welcome email sent to your Umail. Each Thursday, homework from certain sections will be due. For homework details, please check WebWork on a weekly basis. NO late homework will be accepted, unless I have been given prior notice.

Tip: After you submit your answers on WebWork each time, please check your grade immediately to ensure your answers are recorded. You are responsible for your computer problems and mistakes that prevent WebWork from recording your answers.

Quizzes

There will be a quiz each Friday, and they will be graded and handed back in the following week. A lot of the questions of the quizzes might come from your homework.

Exams

No calculators and laptops are allowed in an exam. Cellphones must be silent and put away from the desk. To answer a call please quietly leave the classroom.

Midterms: Friday, Oct. 2, 11:50-12:40pm (The 6th week)

Friday, Nov. 13, 11:50-12:40pm (The 11th week)

Final: Monday, Dec. 14, 10:30 am - 12:30 pm

All of the above are in the same classroom as usual.

There won't be make up exams!

Important Dates

No class on the Labor Day: September 7th, Fall break Oct 11th-18th, Thanksgiving Break November 27th.

Note: I will be out of town in Dec. 15th, one day after the final exam. After that I can still be reached by email, but anything requiring my physical attendance needs to be scheduled before that date.

Grading

8% from homework.

12% from quizzes.

25%*2 from the two midterms.

30% from the final.

The two lowest homework and quizzes will be dropped. Midterms and the final will not be dropped under any circumstances.

Tentative schedule for letter grades:

A	A-	B+	B	B-
93-100	90-92	87-89	83-86	80-82
C+	C	C-	D+	D
77-79	73-76	70-72	67-69	63-66
D-	E			
60-62	0-59			

The final letter grades assignment can be changed at the discretion of the instructor.

ADA Statement

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services (CDS), 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDS.

Student Responsibilities

All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. <http://regulations.utah.edu/academics/6-400.php>

Tutoring Lab

T. Benny Rushing Mathematics Student Center (adjacent to JWB and LCB), Room 155

M - Th 8 a.m. - 8 p.m. F 8 a.m. - 6 p.m. (opens Wednesday)
(closed Saturdays, Sundays and holidays)

They are also offering group tutoring sessions. If you're interested, inquire at the Tutoring Lab. <http://www.math.utah.edu/ugrad/tutoring.html>

Private Tutoring

University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB233.

Note

The syllabus is not a binding legal contract. It may be modified by the instructor when the student is given reasonable notice of the modification.