MATH 1720 Section 200 - Calculus II (Spring 2026 1)

✎ Edit

Instructor: Bunyamin Sari

Office Location: GAB 414

Office Hours: 11-12:30

Course Meets: MWF 10-10:50AM

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Course Description

Calculus II topics are differentiation and integration of exponential, logarithmic and transcendental functions; integration techniques; indeterminate forms; improper integrals; area and arc length in polar coordinates; infinite series; power series; and Taylor's theorem.

Required Text/Materials

Cengage WebAssign: WebAssign is online course delivery platform accessed directly through **Canvas (https://unt.instructure.com/login/)** . WebAssign access includes all online homework assignments, the e-text of *Calculus 9th Edition*, by James Stewart, and additional learning resources. Use the link in Canvas to register **immediately**. You must register in WebAssign by the 2nd class day of the semester.

The textbook is Stewart, James, *Calculus, 9th* Edition. It is available online through WebAssign platform.

WebAssign grants a no-cost temporary 14-day access, starting the first day of the course (not the first day you activate). You must purchase your access before the temporary access expires. If you do not make the purchase before the trial period ends, you may lose credit for all work previously completed.

Grading

Homework (WebAssign) – 10%

Recitation Quizzes – 15%

In class quizzes/attendance - 15%

Calculus I Review Assignment – 5%

Midterm Exams – 45%

Final Exam – 20%

Late work will not be accepted in this course regardless of the reason.

Letter Grades:

- A: 90-100% (Outstanding, excellent work. The student performs well above the minimum criteria.)
- B: 80-89% (Good, impressive work. The student performs above the minimum criteria.)
- C: 70-79% (Solid, college-level work. The student meets the criteria of the assignment.)
- D: 60-69% (Below average work. The student fails to meet the minimum criteria.)
- F: 59 and below (Sub-par work. The student fails to complete the assignment.)

Course Structure

This course will meet in person 3 times per week for lecture and once per week for recitation. There will be regular homework, 3 midterm exams, and quizzes and/or activities during recitation.

Homework

Each week there will be homework on WebAssign for the sections covered that week. The homework will be due by 11:59 PM on Tuesday of the following week. For

instance, in week 1 we will certainly cover 6.1. Thus, the homework on this section will need to be completed by Tuesday night during week 2. This is to give ample time and flexibility should the unexpected happen, but ideally you should be completing the homework as you go through the module during the week. To provide an incentive, you will receive a 5% bonus for any work on the homework completed more than 48 hrs before the deadline. Keep in mind you will have to check WebAssign frequently to keep up with the due dates, there will not be reminders in Canvas.

On the homework you will generally have 10 attempts on each question with one important exception.

Quizzes / Worksheets

There will also be a quiz or activity each week in recitation on covered material in class.

Calculus I Review

During the three weeks of the semester, you will need to complete a somewhat lengthy review assignment in WebAssign. This assignment goes over the main topics from Calculus I to make sure you are prepared for this (and future classes). You will have 100 attempts on each question, so that you have ample opportunity to review and get it right. This assignment is 5% of your grade.

Exams

There will be 3 midterm exams administered in person during lecture. There are NO remote/online options for exams.

If you miss an exam, you receive a zero for that exam. There are no make-up exams.

Recitation

The recitation instructors for this course:

- MATH 1720 201 PHYS 116 R 9:30am-10:50am Jensen, Ethan

You will receive additional instruction by the TA in your recitation section. The TA will work additional examples (with student input) and answer homework questions or other questions related to the material. The TA will also administer short quizzes or activities on the material. The TA will not repeat full lectures on a topic.

Attendance

Attendance is required. In every class there will be a short quiz that you will submit on canvas in a given period. Only the students present in class will be able to do this. There isn't a make up for those regardless of the reason for absence. 5 of them will be dropped to count for excused absences.

Course Prerequisites or Other Restrictions

- A grade of C or higher in MATH 1710.
- A willingness to put in several hours of work each week to absorb the material in each section. **In math courses, especially this one, the content will build upon itself making it very difficult to catch up if you fall behind**.

Week	Monday	Wednesday	Friday
1/12	1/12: Introduction; 6.1 Inverse functions	1/14: 6.1 Cont'd; 6.2* Natural logarithm	1/16: 6.2* Cont'd; 6.3* Natural exponential
1/19	1/19: No class (MLK Day)	1/21: 6.3* Cont'd; 6.4* General logarithms and exponentials	1/23: 6.5 Exponential growth and decay
1/26	1/26: 6.6 Inverse trigonometric functions	1/28: 6.6 Cont'd	1/30: 6.8 L'Hopital’s rule
2/2	2/2: 6.8 Cont'd; 7.1 Integration by parts	2/4: 7.1 Cont'd	2/6: 7.2 Trigonometric integrals

Week	Monday	Wednesday	Friday
2/9	2/9: Exam 1; (6.1–6.8)	2/11: 7.2 Trigonometric integrals; 7.3 Trigonometric substitution	2/13: 7.3 Cont'd
2/16	2/16: 7.4 Partial fractions	2/18: 7.4 Partial fractions	2/20: 7.8 Improper integrals
2/23	2/23: 7.8 Cont'd; 11.1 Sequences	2/25: 11.1 Cont'd	2/27: 11.2 Series
3/2	3/2: 11.2 Cont'd; 11.3 Integral Test	3/4: 11.3 Cont'd	3/6: 11.4 Comparison tests
3/9	3/9: No class (Spring Break)	3/11: No class (Spring Break)	3/13: No class (Spring Break)
3/16	3/16: 11.4 Cont'd; 11.5 Alternating series	3/18: Exam 2	3/20: 11.5 Alternating series / Absolute vs conditional convergence
3/23	3/23: 11.6 Root/Ratio tests	3/25: 11.6 Cont'd; 11.8 Power series	3/27: 11.8 Cont'd
3/30	3/30: 11.9 Representation by power series	4/1: 11.9 Cont'd; 11.10 Taylor series	4/3: 11.10 Cont'd
4/6	4/6: 11.10 Cont'd; 11.11 Taylor polynomials	4/8: 11.1 Cont'd; 10.1 Parametric equations	4/10: 10.1 Cont'd; 10.2 Calculus in parametric equations
4/13	4/13: 10.2 Cont'd	4/15: 10.3 Polar coordinates	4/17: 10.3 Cont'd
4/20	4/20: 10.4 Area in polar coordinates	4/22: Exam 3	4/24: 10.4 Cont'd
4/27	4/27: Review	4/29: Review / Wrap up	5/1: Reading Day (no class)

Academic Dishonesty

Cheating will not be tolerated. Any student found cheating will receive no credit on the assignment and a report will be filed with the office of academic integrity.

Course Summary:

Date	Details	Due
Wed Jan 21, 2026	6.1: Inverse Functions (https://unt.instructure.com/courses/138980/assignments/2970407)	due by 10:59pm
	6.2*: The Natural Logarithm Function (https://unt.instructure.com/courses/138980/assignments/2970408)	due by 10:59pm
Wed Jan 28, 2026	6.3*: The Natural Exponential Function (https://unt.instructure.com/courses/138980/assignments/2970409)	due by 10:59pm
	6.4*: General Logarithmic and Exponential Function (https://unt.instructure.com/courses/138980/assignments/2970410)	due by 10:59pm
	6.5: Exponential Growth and Decay (https://unt.instructure.com/courses/138980/assignments/2970411)	due by 10:59pm
Mon Feb 2, 2026	Precalculus/Calculus I Review (https://unt.instructure.com/courses/138980/assignments/2970412)	due by 10:59pm

Date	Details	Due
Wed Feb 4, 2026	6.6: Inverse Trigonometric Functions (https://unt.instructure.com/courses/138980/assignments/2970413)	due by 10:59pm
Fri Feb 6, 2026	6.8: Indeterminate Forms and L'Hopital's Rule (https://unt.instructure.com/courses/138980/assignments/2970414)	due by 10:59pm
Mon Feb 9, 2026	Midterm exam 1 (https://unt.instructure.com/courses/138980/assignments/2970310)	due by 11:59pm
Thu Feb 12, 2026	7.1: Integration by Parts (https://unt.instructure.com/courses/138980/assignments/2970415)	due by 10:59pm
Wed Feb 18, 2026	7.2: Trigonometric Integrals (https://unt.instructure.com/courses/138980/assignments/2970416)	due by 10:59pm
Wed Feb 25, 2026	7.3: Trigonometric Substitution (https://unt.instructure.com/courses/138980/assignments/2970417)	due by 10:59pm
	7.4: Integration by Partial Fractions (https://unt.instructure.com/courses/138980/assignments/2970418)	due by 10:59pm
Mon Mar 2, 2026	7.7 Approximate Integration (https://unt.instructure.com/courses/138980/assignments/2970420)	due by 10:59pm
	7.8: Improper Integrals (https://unt.instructure.com/courses/138980/assignments/2970419)	due by 10:59pm
Wed Mar 11, 2026	11.1: Sequences (https://unt.instructure.com/courses/138980/assignments/2970421)	due by 10:59pm

Date	Details	Due
Wed Mar 18, 2026	11.2: Series (https://unt.instructure.com/courses/138980/assignments/2970422)	due by 10:59pm
	11.3: The Integral Test and Estimates of Sums (https://unt.instructure.com/courses/138980/assignments/2970423)	due by 10:59pm
	Midterm exam 2 (https://unt.instructure.com/courses/138980/assignments/2970364)	due by 11:59pm
Wed Mar 25, 2026	11.4: The Comparison Tests (https://unt.instructure.com/courses/138980/assignments/2970424)	due by 10:59pm
	11.5: Alternating Series and Absolute Convergence (https://unt.instructure.com/courses/138980/assignments/2970425)	due by 10:59pm
Wed Apr 1, 2026	11.6: Ratio and Root tests (https://unt.instructure.com/courses/138980/assignments/2970426)	due by 10:59pm
	11.8: Power Series (https://unt.instructure.com/courses/138980/assignments/2970427)	due by 10:59pm
Wed Apr 8, 2026	11.10: Taylor and Maclaurin Series (https://unt.instructure.com/courses/138980/assignments/2970429)	due by 10:59pm
	11.9: Representation of Functions as Power Series (https://unt.instructure.com/courses/138980/assignments/2970428)	due by 10:59pm
Mon Apr 20, 2026	11.11: Applications of Taylor Polynomials (https://unt.instructure.com/courses/138980/assignments/2970430)	due by 10:59pm

Date	Details	Due
Wed Apr 22, 2026	Midterm exam 3 (https://unt.instructure.com/courses/138980/assignments/2970365)	due by 11:59pm
Thu Apr 23, 2026	10.1: Curves defined by parametric equations (https://unt.instructure.com/courses/138980/assignments/2970431)	due by 10:59pm
	10.2: Calculus with parametric curves (https://unt.instructure.com/courses/138980/assignments/2970432)	due by 10:59pm
Wed Apr 29, 2026	10.3: Polar coordinates (https://unt.instructure.com/courses/138980/assignments/2970433)	due by 10:59pm
Thu Apr 30, 2026	10.4: Areas in polar coordinates (https://unt.instructure.com/courses/138980/assignments/2970434)	due by 10:59pm
Sat May 2, 2026	Final exam (https://unt.instructure.com/courses/138980/assignments/2970521)	due by 7:30am
	Jan 12 (https://unt.instructure.com/courses/138980/assignments/2970485)	
	Jan 16 (https://unt.instructure.com/courses/138980/assignments/2988493)	
	Week 1 (https://unt.instructure.com/courses/138980/assignments/2970037)	
	Week 10 (https://unt.instructure.com/courses/138980/assignments/2970044)	
	Week 11 (https://unt.instructure.com/courses/138980/assignments/2970043)	

Date	Details	Due
	Week 12 (https://unt.instructure.com/courses/138980/assignments/2970042	
	Week 13 (https://unt.instructure.com/courses/138980/assignments/2970041	
	Week 14 (https://unt.instructure.com/courses/138980/assignments/2970040	
	Week 15 (https://unt.instructure.com/courses/138980/assignments/2970039	
	Week 2 (https://unt.instructure.com/courses/138980/assignments/2970038	
	Week 3 (https://unt.instructure.com/courses/138980/assignments/2970075	
	Week 4 (https://unt.instructure.com/courses/138980/assignments/2970072	
	Week 5 (https://unt.instructure.com/courses/138980/assignments/2970057	
	Week 6 (https://unt.instructure.com/courses/138980/assignments/2970048	
	Week 7 (https://unt.instructure.com/courses/138980/assignments/2970047	
	Week 8 (https://unt.instructure.com/courses/138980/assignments/2970046	
	Week 9 (https://unt.instructure.com/courses/138980/assignments/2970045	