

MATH 1720 Sec. 140
Calculus II – Fall 2023
MWF 11:00 - 11:50am Room: BLB 055

Instructor: Steven Widmer
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Email is the best way to contact me. While I try to reply as soon as possible to all emails, please allow one (1) business days before expecting a response.

Office Hours: Mon/Wed: 2pm - 3:30pm; Tue 9am - 12pm; and by appointment.

I should have availability at other times, so please send me an email to set up an appointment outside of office hour times. Office hours are for help with specific problems or for answering questions about the course, they are **NOT** for teaching the course material.

Final Exam: Monday, December 11, 10:30am - 12:30pm in BLB 055
<http://registrar.unt.edu/exams/final-exam-schedule/fall>

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

A Webassign access code is also required. WebAssign is an online course delivery platform. Students will enroll in and access WebAssign through the link in Canvas on the Modules page of the course. 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. See [WebAssign Student Information](#).

You may use the no-cost temporary 14-day access, however you must purchase your access before the temporary access expires. If you do not purchase WebAssign by the end of the trial period, you may lose credit for all work previously completed. Again, see [WebAssign Student Information](#).

Course Description : (3 hours) 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; Taylor's theorem.

Prerequisites: A grade of C or better in MATH 1710.

Grade Policy:

| | |
|----------------------------|-----|
| WebAssign Homework | 10% |
| Written Homework | 5% |
| Calculus I Review | 5% |
| Quizzes (Recitation) | 10% |
| Exam Average | 50% |
| Final Exam | 20% |

The grade distributions will be 90% - 100% is an A, 80% - less than 90% is a B, 70% - less than 80% is a C, 60% - less than 70% is a D, less than 60% is an F. **There will be no curves.**

Sections Covered: Chapter 6; Chapter 7: all sections except 7.5 & 7.6; Chapter 10: up to section 10.4; Chapter 11.

Calculator Policy: Calculators will be permitted for homework, quizzes, and exams. A TI 83, TI 83Plus, TI 84 or equivalent is recommended, but calculators with CAS capabilities (e.g., TI-89, TI-92, TI NSpire) are not permitted. There are several free online calculators you can use while working on homework assignments as well. Phones MAY NOT be used as a calculator on exams or quizzes.

Attendance: Attendance is mandatory and students are expected to attend class meetings regularly. This includes all lecture meetings as well as all recitation meetings. Students are responsible for all information given in class, regardless of their attendance.

WebAssign Online Homework: our WebAssign homework is found on the WebAssign website (link provided on Canvas). NO LATE HOMEWORK will be accepted, regardless of reason.

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. Your lowest two (2) homework scores will be dropped.

On the homework you will generally have 10 attempts on each question with some possible exceptions (e.g. multiple choice or true false questions).

Written Assignments: You will have several written assignments. The written homework will be submitted in recitation. These assignments require you to show, in your own handwriting, the mathematical process for the problems. Submission Requirements:

- Must be completed in your own legible writing;
- Written Assignments should be project-level quality: well organized, written neatly, and mathematically correct;
- No credit for correct answers without correct work;

A zero will be assigned to any submission that does not meet ALL of the submission requirements. No late homework will be accepted for any reason whatsoever. At the end of the term, your two (2) lowest written homework scores will be dropped.

Calculus I Review: During the first two 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 class (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.

Quizzes: Quizzes will take place most weeks in recitation. The problems on the quiz will come directly from homework assignments, either written or WebAssign. Students must be present in class to complete quizzes and no make up quizzes will be given. To account for not allowing make up quizzes, the lowest two (2) quiz scores will be dropped.

Late Submission Policy: All work must be submitted by the due date and late work will not be accepted for any reason. This includes online homework assignments, written homework assignments, weekly quizzes, and exams.

Exams: You will have three midterm exams and a comprehensive final exam. Actual exams dates and content will be announced in class, usually at least two weeks before the actual exam date. The tentative exam dates are Sept. 21(Sections 6.1 - 7.2), Nov. 2(Sections 7.3 - 11.6), and Dec. 1(Sections 11.7 - 10.2).

You may replace your lowest exam score with the final exam score if the latter is higher. If you miss an exam, you may use the final exam score for that exam. If you receive a zero for cheating on an exam, the final exam score will NOT replace that zero. Again, NO MAKE-UP EXAMS WILL BE GIVEN FOR ANY REASON.

Make-up Exam Policy: No make-up exams will be given for any reason. An exam may be taken prior to the scheduled date. You must request for this accommodation via email at least one week prior to day you wish to take the early exam. If you miss an exam then a score of 0 will be recorded, and you may use the final exam score for that exam.

Recitation: The recitation sections are to support the lecture and will contain additional examples and help with homework problems. Additionally all quizzes and mid-term exams will take place in the recitation sections (the final exam will take place in the lecture classroom). Attendance in the recitation sections counts as attendance towards the overall class and is required.

Disruptive Behavior: On any day, if you disrupt the class you will be asked to leave the classroom. You may also be reported for further disciplinary actions. Disruptive behaviors include – but are not limited to – talking, making inappropriate jokes, using phones in class, leaving class to answer phone, or performing other tasks that are not related to class work.

Extra Help: Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course. You also may want to consider the UNT MathLab (GAB 440). Information is available at: <http://math.unt.edu/mathlab>

Additional help can be found through the UNT Learning Center: <http://learningcenter.unt.edu/>, select the tutoring button located near the top of the page for different tutoring options.

Math is not a spectator sport. You will not learn mathematics from watching your instructor or friends or a screen display ideas and solve problems. You must try the problems, finish problems, ask questions, make mistakes, correct mistakes, put concepts into your own words, and practice, practice, practice.

Note: This syllabus is subject to change as the instructor deems necessary. Any/all changes will be announced during regular class time. It is the responsibility of the student to attend each scheduled class to be informed of these changes.

Academic Integrity Standards and Consequences: According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

Cooperation is encouraged in doing the homework assignments but not allowed on the quizzes/tests/exams. If you are caught cheating, you will be subject to any penalty the instructor deems appropriate, up to and including an automatic F for the course. Furthermore, a letter will be sent to the appropriate dean. Refer to the following university site for the official policy with regards to academic dishonesty. The website is: <https://facultysuccess.unt.edu/academic-integrity>.

Disability Accommodations: The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time, however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website at <https://studentaffairs.unt.edu/office-disability-access>. You may also contact ODA by phone at (940) 565-4323.

Emergency Notification & Procedures: UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to the UNT Learning Management System (LMS) for contingency plans for covering course materials.

Course Calendar - Math 1720 - Fall 2023

This is a tentative calendar and may be changed at any time

| Monday | Wednesday | Friday |
|---|---|---|
| 8/21 Section: 6.1 Inverse functions | 8/23 Section 6.1, 6.2* Natural logarithm, derivatives | 8/25 Section 6.2*, 6.3* The exponential function, deriv. |
| 8/28 Section: 6.4* General Logarithms, derivatives | 8/30 Section: 6.4*, 6.5 General exponential, derivatives | 9/1 Section: 6.6 Calculus & inverse trig functions |
| 9/4 University Closed: Labor Day | 9/6 Section: 6.6, 6.7 Hyperbolic Functions (brief intro) | 9/8 Section: 6.8 L'Hopital & Indeterminate Forms |
| 9/11 Section: 7.1 Integration by parts | 9/13 Section: 7.1, 7.2 Intagration by parts | 9/15 Section: 7.2 Trig Integrals |
| 9/18 Section: 7.3 Trig substitution | 9/20 Section: 7.3 Trig substitution | 9/22 Section: 7.4 Partial fraction decomposition |
| 9/25 Section: 7.4, 7.7 Approximating area | 9/27 Section: 7.8 Improper integrals | 9/29 Section: 11.1 Sequences |
| 10/2 Section: 11.2 Series | 10/4 Section: 11.2, 11.3 Convergence & divergence | 10/6 Section: 11.3 Integral Test & estimating sums |
| 10/9 Section: 11.3, 11.4 p-series | 10/11 Section: 11.4 Comparison test | 10/13 Section: 11.4 Comparison test |
| 10/16 Section: 11.5 Alternating series | 10/18 Section: 11.6 Absolute convergence | 10/20 Section: 11.6 Root & ration tests |
| 10/23 Section: 11.8 Power series | 10/25 Section: 11.8 Power series | 10/27 Section: 11.9 Functions as a power series |
| 10/30 Section: 11.10 Taylor series | 11/1 Section: 11.10 MacLaurin series | 11/3 Section: 11.10 Taylor polynomials |
| 11/6 Section: 10.1 Parametric equations | 11/8 Section: 10.1, 10.2 Parametric equations | 11/10 Section: 10.2 Parametric curves & calculus |
| 11/13 Section: 10.2 Parametric curves & calculus | 11/15 Section: 10.3 Polar coordinates | 11/17 Section: 10.3 Polar coordinates |
| 11/20 | 11/22 | 11/24 |
| x----- Thanksgiving Break - No classes -----x | | |
| 11/27 Section: 10.3 Polar coordinates | 11/29 Section: 10.3, 10.4 Polar coordinates | 12/1 Section: 10.4 Area & length |
| 12/4 Final Exam Review | 12/6 Final Exam Review | 12/8 Reading Day, No classes |
| 12/11 Final Exam Week | 12/13 Final Exam Week | 12/15 Final Exam Week |