

MATH 1720 - Calculus II - Section 003
Spring 2012

Instructor: Dr. Farmer Schlutzenberg

Contact Details:

Email: farmer@unt.edu

Office: 416 GAB.

Office Hours: Times for now (subject to change): Monday 2-3; Tuesday 1-3;
Wednesday 2-3.

Class meets: 11-11:50am, Monday, Wednesday, Friday, GAB 206.

Final Exam Date and Time: 10:30am - 12:30pm, Wednesday, May 9. Usual classroom.

Class Website: math.unt.edu/~farmer/1720.html

Course Outline: (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; Taylors theorem.

Prerequisite: A passing grade in Math 1710 or the equivalent. It is the responsibility of the student that the prerequisite is satisfied. Students that do not meet the prerequisite will be allowed only the first week of classes to be moved from one class to another. A grade of F, W or WF may be assigned to students enrolled in the course who do not meet the prerequisite, irrespective of their work.

Text: *Calculus*, by Briggs and Cochran. You will need access to this book.

Calculator: The majority of the work you complete for this course will be without the aid of a calculator, but one will be required occasionally.

Math tutor lab:

Location: GAB 440

Website: math.unt.edu/mathlab

Opening Times:

Monday - Thursday: 7am - 8pm

Friday: 7am - 4pm

Saturday: 12 - 5pm

(Closed Sundays and holidays)

UNT Policies on Student Rights and Responsibilities: See the Center for Student Rights and Responsibilities (CSR), on the web at <http://conduct.unt.edu/>, for university wide policies.

Responsibilities of Student:

- You are expected to read and understand the contents of this syllabus,

and remain informed about any changes to this syllabus throughout the semester. Any changes to the syllabus will be indicated on the class website, and reflected in the syllabus available there. If you do not understand something in the syllabus, you are expected to ask me for explanation.

- You should ensure now that you will be able to attend class for each exam. If you foresee a problem, talk to me about it ASAP. If you miss an exam without making arrangements beforehand, then except in exceptional circumstances, you will receive a score of 0 for that exam.
- You are expected to learn and understand the material covered in classes, assigned readings, handouts and assigned problems (for credit or not).
- You are responsible for obtaining all handouts.
- You are required to conform to the student code of conduct, which you should be familiar with. (In the CSRR website, <http://conduct.unt.edu>, click the “Student Conduct” tab and then click the “Code of Conduct” link; alternatively, just go here: http://conduct.unt.edu/sites/default/files/pdf/code_of_conduct.pdf).
- You are required to conform to the university’s standards of academic integrity. You should be familiar with the university’s policy on this. (Available here: http://policy.unt.edu/sites/default/files/untpolicy/pdf/7-Student_Affairs-Academic_Integrity.pdf. For more information see the Office of Academic Integrity’s website: <http://vpaa.unt.edu/academic-integrity.htm>.)

Grading:

- In grading your work, I do look for a correct “final answer”, but I am usually much more interested in your thought process used to solve a problem.
- To gain full credit for your solution to a problem, *you must show all your work and reasoning*, unless the problem states *explicitly* that you needn’t do so. In fact, *most* of the credit will usually be awarded for steps preceding the “final answer”, and just writing the correct “final answer” alone will usually gain a score of 0.
- If you’re not sure whether to include some piece of work in your answer, lean toward including it. One rule of thumb is that you should write down any useful thoughts you have leading toward your solution (in an organised fashion). Another rule of thumb is to imagine that you’re writing for someone who knows a little less than you do - maybe someone who has just taken through Math 1720. See the “explaining guidelines” document on the website for more information.
- All work should be written carefully and legibly, with sufficient spacing. Work that I find too hard to read may be not graded, and given a score of 0. I suggest using pencil.
- The grade of “I” (Incomplete) can, given the right conditions, be assigned to a student who is passing, but unable to complete the remainder of the semester’s work. Before asking about this, read the “Incomplete grade information policy”, which is linked to on the Registrar’s website <http://essc.unt.edu/registrar/index.html>.

- The for-credit work includes the final exam, midterms 1 and 2, in-class quizzes and homework.
- You can earn a maximum of 200 points for the semester's work. There are two options for how this will be broken down. I will calculate your score with both options, and you'll automatically get the better of the two. The break-downs are below.

Option 1:

- MT1: 48 points
- MT2: 48 points
- Final Exam: 72 points
- Quizzes: 30 points
- Homework: 10 points

Option 2:

- MT1: 28 points
- MT2: 28 points
- Final Exam: 120 points
- Quizzes: 18 points
- Homework: 6 points

Letter grades will be determined essentially according to the following guidelines ¹:

- A: $\geq 85\%$
- B: $\geq 75\%$
- C: $\geq 60\%$
- D: $\geq 50\%$
- F: $< 50\%$

Announcements: Course announcements affecting any aspect of the course, including changes to this syllabus, may be made in class. It is the student's responsibility to be informed of any such announcements.

In Class:

- Music players, etc., are to be switched off.
- Laptop computers may be used for note taking purposes only.
- No cell phones ringing.

¹For each midterm and the final exam, you'll be assigned a letter grade, roughly according to the given scale. However, the exact scale used on each test may vary a little from the given scale. It will only vary in a direction in favour to the student, so that if you get 75% on a test, you'll definitely get (at least) a B for that test. But it won't vary that far from the given scale.

- You are expected to make your best effort to arrive on time. If you run late occasionally due to unforeseen circumstances, that's okay, just be quiet when you come into class.
- If you anticipate needing to arrive to class late or leave early, please let me know beforehand. Please be courteous of others as you do so.
- You are expected to conform to the UNT student code of conduct (available here: http://conduct.unt.edu/sites/default/files/pdf/code_of_conduct.pdf).

Readings: Some material for the class will not be explicitly covered in class, but assigned as reading or homework. I also suggest that you read the corresponding portion of text prior to class; if you are confused or have questions, you are invited to bring them up in class. Reading *and* hearing about the material will very probably help you understand better than just doing one alone, and getting a different perspective will help also.

Tests (Exams and Quizzes):

- Exam schedule (all held in usual classroom):
 - Midterm Exam 1: 11am, Friday, Feb 24.
 - Midterm Exam 2: 11am, Friday, April 6.
 - Final Exam: 10:30am, Wednesday, May 9.

If you know of some reason now that you can't make one of these dates, talk to me about it ASAP.

- Each student's lowest quiz score will be dropped and lowest homework score will be dropped. No exam scores will be dropped.
- *Examinable material:* All material covered in the course prior to a given test is examinable in that test. The final exam will be very comprehensive in that it will explicitly contain questions relating to many (or all) parts of the course. The midterms and quizzes will focus more on the material more recently covered. All material covered in classes, in assigned readings or problems (whether for credit or not), and in non-administrative hand-outs, is examinable. Also, some questions in tests may be generalizations or variations of that material. So some test questions may not look like questions that have come up previously in the class. However, the majority of questions in tests will be much like those assigned in homework and discussed during class, and if you understand that material well, you should do well in the course.
- *Rules for tests:*
 - Calculators will usually not be permitted for tests. *If* calculators are permitted for a particular test, this will be stated explicitly on its first page.
 - All electronic devices are to be put away during tests, other than those explicitly permitted in a given test.
 - Everything written on your test must be *your own work*.

- You must follow the rules listed under “Academic Integrity” below.
- Exams will be handed out closed; quizzes will be handed out face down. Students may only open exams, or turn quizzes face up, when instructed to do so.
- At the end of quizzes I (or whoever the instructor is) will ask students to stop writing and put their pen/pencil down. At this point, students must stop all writing immediately (including writing your name, student ID number, or anything else). Ignoring this request will result in a score of 0 for the quiz. If you have not written your name on your quiz, just let me know, and I will keep your quiz separate so that you can write your name on it later.
- Each exam will run for a certain prescribed length of time. The remaining time will be made clear in the classroom. It is the student’s responsibility to hand in their exam to me, at the front of the room. There will be a 1 minute grace period after the official end of the exam in which exams may be handed in, without attracting a penalty. Exams handed in at least 1 minute late will receive a penalty of $5t$ percentage points, where $t \geq 1$ is the number of minutes the exam is late. (So, for example, an exam handed in 58 seconds late receives no penalty. An exam handed in 60 seconds ($t = 1$ minute) late receives 5% penalty. An exam handed in 150 seconds ($t = 2.5$ minutes) late receives 12.5% penalty, etc. The % reduction is relative to the maximum number of points available in the exam, so for example, if the exam has a maximum score of 50 points, and a student hands their exam in 2.5 minutes late, then the penalty is 12.5%, so $0.125 * 50 = 6.25$ points, so their total score would be reduced by 6.25 points as a result.)
- Exams may have further policies written on their front page.

Academic Integrity: You are required to conform to the university’s standards of academic integrity. You should be familiar with the university’s policy on this. (Available here: http://policy.unt.edu/sites/default/files/untpolicy/pdf/7-Student_Affairs-Academic_Integrity.pdf. For more information see the Office of Academic Integrity’s website: <http://vpaa.unt.edu/academic-integrity.htm>.)

During tests (all exams and quizzes):

- Everything written in your tests (exams and quizzes) must be your *own work*. Cheating is a serious offence, and will be treated as such.
- Do not look at other people’s tests, and do not attempt to communicate with any other student while taking the test.
- Do not attempt to access external sources of information during a test, other than those explicitly permitted by me for that test.
- Follow the other rules listed in the “Tests” section above.

Homework:

- Homework is an essential part of the course. Completing the homework is essential to developing your understanding of the material, and so to your

ability to perform well in tests. See the homework guidelines handout on the website for more information.

- Assignments will be announced on the course website.
- Solutions must be handwritten.
- Work exceeding one page should be stapled or attached with a paper-clip or binder.
- You are not permitted to refer to any sources (people, text, electronic) providing solutions to homework problems. (But see the next two items.)
- It's fine (and encouraged) to talk to other students in the class about homework problems and come up with solutions together. But it is not permitted to simply copy a solution which another student has come up with and written independently from you. Everything you submit must be written by yourself, be based on your own efforts (which may have been part of collaboration) and your answers must be in your own words.
- It's fine to talk with a tutor about the problems, but not to simply copy solutions provided by your tutor. If you work with a tutor, then I suggest only working on different, but related, problems with them.

Disability Accommodation: The Department of Mathematics cooperates with the Office of Disability Accommodation to make reasonable accommodations for qualified students with disabilities.

It is the responsibility of students with certified disabilities to provide the instructor with appropriate documentation from the Dean of Students Office.

Any assistance/tools used by student, outside of those used by all students in the class, must be explicitly stated, in written form, in the documentation provided by the Office of Disability Accommodation. For example, if you make use of a computer whilst taking exams, then the precise software, and functions of that software, which you will make use of during examinations, must be agreed upon by me, in written form, with my signature, beforehand.

Student Evaluation of Teaching Effectiveness (SETE): SETE is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching.

Class Schedule

The following schedule is subject to change.

Wed 1/18: First day of class;

Fri 1/20:

Mon 1/23:

Wed 1/25:

Fri 1/27:

Mon 1/30:

Wed 2/1:

Fri 2/3:

Mon 2/6:

Wed 2/8:

Fri 2/10:

Mon 2/13:

Wed 2/15:

Fri 2/17:

Mon 2/20:

Wed 2/22:

Fri 2/24: Midterm 1

Mon 2/27:

Wed 2/29:

Fri 3/2:

Mon 3/5:

Wed 3/7:

Fri 3/9:

Mon 3/12:

Wed 3/14:

Fri 3/16:

Mon 3/19: — (Spring break)

Wed 3/21: — (Spring break)

Fri 3/23: — (Spring break)

Mon 3/26:

Wed 3/28:

Fri 3/30:

Mon 4/2:

Wed 4/4:

Fri 4/6: Midterm 2

Mon 4/9:
Wed 4/11:
Fri 4/13:

Mon 4/16:
Wed 4/18:
Fri 4/20:

Mon 4/23:
Wed 4/25:
Fri 4/27:

Mon 4/30:
Wed 5/2: Review; last day of class.
Fri 5/4: —

Mon 5/7: —
Wed 5/9: Final Exam, 10:30am-12:30pm