

Mathematics 1720.030 Syllabus - Spring 2015

Course Description: This course builds on the topics taught in Math 1710. In particular, topics covered include differentiation and integration of exponential, logarithmic and inverse trigonometric functions and related algebraic functions; integration techniques; infinite series, Taylor Series and polynomial approximation of functions; and calculus of polar coordinates.

Learning Objectives: By the end of this course, you will be able to 1) compute derivatives of various transcendental functions; 2) compute integrals of certain functions whose integrals are transcendental ; 3) approximate analytic functions with polynomials; and 4) compute areas and slopes using polar coordinates.

Prerequisite: Math 1710 or equivalent

Book: Calculus by Briggs, Cochran and Gillett; Second Edition

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M 1:00-3:00, T 11:00-1:00, W 2:00-4:00, Th 1:30-3:00 and by appointment.

Please use these hours to ask questions of your instructor. During non-office hours, your instructor will most likely be busy with other responsibilities, so do not just drop in at other times. Hopefully between your professor's office hours and your recitation instructor's office hours, you will find ample time to have your questions answered. However, if you need to see your instructor at another time, please make an appointment in advance.

Grading and Course Requirements: Grades will be based on three regular exams, homework, four major take home quizzes, several small take home quizzes, and a final. The homework is worth a total of 100 points. Major take home quizzes are worth 25 points each for a total of 100 points and small take home quizzes are worth a total of 100 points. Each regular exam is worth 100 points and the final exam is worth 200 points. This gives you a total of 800 possible points. To earn an A it is sufficient to make a total of 720 points, 640 for a B, 560 for a C, and 480 for a D. Occasionally an exam may be worth 102 or 105 points instead of 100 points. Think of these extra points as extra credit, the grade cut-offs will still be the same number of points, you will just have more opportunity to earn those points.

Course Evaluation: A short survey will be made available to you toward the end of the semester, providing you a chance to comment on how this class is taught. You are required to go to a web site and complete the survey sometime during the open period. The survey could take you 10 minutes or less if you just answer the multiple choice questions. If you wish to make specific comments about the course, the instructor or anything else related to this class, you will have the opportunity to type in comments. Although your instructor will receive a list of who completed the evaluation forms, he will not receive any other information about the evaluations until after the grades are turned in. Your instructor will receive no information that would link you to your specific answers or comments. The

university, the mathematics department and your instructor take your course evaluation input very seriously. Filling out the evaluation is an opportunity for you to help UNT improve its teaching.

Exams: The regular exams are scheduled for February 17, March 26 and April 30. The final exam is scheduled for Tuesday May 12 at 1:30 in the classroom. The exam dates are subject to change, but the final exam date is very unlikely to change.

Homework: Homework will be posted in [MyMathLab](#) and done online. When an assignment is available, it will show up in MyMathLab with the due date. Since MyMathLab is a computer program, it is very picky about getting the homework done on time. So no late homework will be accepted. To register for MyMathLab, go to Blackboard and find the link to MyMathLab with Pearson eText Course Home in the Math 1720 course content area. This will take you to a page that will allow you to register for MyMathLab. If you used MyMathLab last semester in 1710, then just follow directions and you will be registered for this class – you should not be asked to pay again. If you already bought the book and you did not register for MyMathLab for 1710 in the fall, you will need the access code that came with the book. If you have not purchased the book and did not register for MyMathLab for 1710 in the fall, you have the option of using a credit card to register which will give you access to the book online. After you have registered, you can simply click on the link to MyMathLab Homework to work on the homework or you can click on the MyMathLab Home link to work on homework, read the book, or view videos and interactive figures.

Quizzes: Before most recitations, you will be assigned a one problem take home quiz. Your recitation instructor will only collect the quizzes 12 (unannounced) times during the semester and each of these quizzes will be worth 10 points, with the lowest two dropped. The quizzes are due at the beginning of recitation class. There will be a major take home quiz due on each exam day and on the day of the final. Each is worth 25 points for a total of 100 points.

Attendance: It is important that you come to class in order to master the material. Although most of what will be covered in lecture can be found in the book, often a different point of view will be given, presented examples will be different, and hopefully insight will be given as to why and how things work as well as how to solve problems and compute answers. It is also essential to participate in recitation since the problems that you will solve and see presented will be typical of the type of problems you will see on the exams and final.

Extra Credit: Do not ask for extra credit work to help your grade either before or after the final exam. There will be no extra credit for this course other than perhaps a few extra points on some exams. Your best strategy to help your grade is to do the required work at the time it is assigned.

Cell Phones and Other Electronic Devices: Mathematics builds on itself and if a student misses a concept, then it is difficult to understand what comes next. Consequently, I request that you do not try to multitask by listening to what is going on in class while browsing the web, reading text messages, listening to music or checking your stocks. Not only does the use of cell phones impede a student's learning, but it also distracts nearby students. However, if you are using your computer or tablet to take notes or your calculator to compute an answer, that is fine.

Disabilities: The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability

Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of 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 accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at 940.565.4323.

Cheating: No cheating will be tolerated. Cheating includes receiving help from anyone or anything that is not specifically allowed on an exam, quiz, or final. For example, calculators are not allowed on exams and using one would constitute cheating. On the other hand, you are encouraged to work together on homework assignments as long as everyone participates and no one just copies the answers. Anyone caught cheating will receive an F for the course. Furthermore, a letter will be sent to the appropriate dean. I expect no cheating in this class. (See the UNT website on academic dishonesty: <http://www.vpaa.unt.edu/academic-integrity.htm>.)

Last Comment: Anything on this syllabus is subject to change at the discretion of the instructor.

Math 1720.030 Lecture Schedule*

Week of	Tuesday	Thursday
January 19, 2015	Section 7.2	Section 7.3
January 26, 2015	Section 7.4	Section 7.1
February 2, 2015	Section 7.5	Section 7.6
February 9, 2015	Section 7.7	Sections 8.1 and 8.2
February 16, 2015	Exam 1	Continue Section 8.2
February 23, 2015	Section 8.3	Section 8.4
March 2, 2015	Section 8.5	Sections 8.6 and 8.8
March 9, 2015	Section 8.9	Sections 9.1 and 9.2
March 16, 2015	No Class	No Class
March 23, 2015	Review	Exam 2
March 30, 2015	Section 9.3	Section 9.4
April 6, 2015	Section 9.5	Continue Section 9.5
April 13, 2015	Section 9.6	Section 10.1
April 20, 2015	Section 10.2	Sections 10.3 and 10.4
April 27, 2015	Section 11.2	Exam 3
May 4, 2015	Section 11.3	Review

Final Exam Tuesday May 12 1:30 in the classroom

*Each recitation will address what was covered in recent lectures.