Prerequisite: Math 1720 or equivalent


Professor: Neal Brand

Office: GAB 417B M 10:00-11:20, T 3:30-4:20, W 3:30-4:20, Th 9:30-10:50 and by appointment. Please use these hours to ask questions of your instructor. Do not just drop in at other times since your instructor will most likely be busy with other responsibilities. If you need to see your instructor at another time, make an appointment in advance.

Grading: Grades are based on three regular exams, homework, quizzes, a notebook and a final. The homework is worth a total of 100 points, each exam is worth 100 points, the quizzes are worth a total of 100 points, the notebook is worth 100 points, and the final 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. You are also required to complete the on-line course evaluation described below.

Course Evaluation: The SETE website will be open later in the semester for you to evaluate the course (dates to be announced later). You are required to complete an evaluation of the course sometime during the open period. Although your instructor will receive a list of who completed the evaluation forms before grades are turned in, 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.

Homework: Homework will be assigned from the book and handouts. The assignments will be posted on the web. You are expected to turn in neatly written homework. If the grader has trouble reading the homework, then the homework will be returned with a zero.

Exams: The exams will be in class and most likely they will be given on September 29, November 1 and December 1. The final exam is scheduled for Thursday December 15 at 10:30 in the classroom.

Web Page: From the UNT home page follow through the links through the College of Arts and Sciences, the Mathematics Department and Neal Brand's home page to find the Math 3000 home page. You will find homework assignments, and other information concerning this class at that site. The URL is http://www.math.unt.edu/~brand/CLASS/3000/2011Fall/3000.htm.

Extra Credit: Do not expect to be able to do 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 an extra problem on an exam. Please do not ask for extra credit work to help your grade. Your best bet to help your grade is to do the required work at the time it is assigned.

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

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 the
regular 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.

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

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Homework and Reading Assignments: Homework is to be turned at the beginning of class on the days indicated below. Soon after class each day the homework assignments will be posted here. You should do all the homework listed, but turn in only the problems listed in bold face type. The reading assignments are to be completed by the beginning of class on the days indicated. The class discussion will focus on the reading assignment. The schedule below is subject to change.

- **August 25**  
  First day of class - introduction to proofs.  
  [A puzzle](#)

- **August 30**  
  Read Section 13 through Practice 13.5

- **September 1**  
  Read Section 5 and start reading Section 1

- **September 6**  
  Continue with Section 5  
  Read Section 1

- **September 8**  
  Continue Section 1  
  Read Section 2  
  Page 46 5.1, 5.2, 5.3, 5.4, 5.5, 5.8  
  Page 8 1.4, 1.8, 1.10, 1.13, 1.14

- **September 13**  
  Continue Section 2 and start reading the rest of section 13

- **September 15**  
  Read Section 13

- **September 20**  
  Continue discussion of Section 13

- **September 22**  
  Continue discussion of Section 13

- **September 27**  
  Review and continue discussion of Section 13
- **September 29**
  - Exam 1

- **October 4**
  - Read Section 14 through Lemma 14.4
  - Start reading Section 11

- **October 6**
  - Read Section 11

- **October 11**
  - Read Section 12

- **October 13**
  - Continue discussion of Section 12

- **October 18**
  - Read Section 14

- **October 20**
  - Continue discussion of Section 14

- **October 25**
  - Continue discussion of Section 14 and review for exam

- **October 27**
  - Review for exam and discuss sections 6 and 7

- **November 1**
  - Exam 2

- **November 3**
  - Read Section 16 through Example 16.1
  - Read Section 6 through Example 6.8
  - Read Section 7

- **November 8**
  - Continue discussion of Section 7

- **November 10**
  - Definition of Limit

- **November 15**
  - Read Section 8 on Cardinality

- **November 17**
  - Turn in limit proofs
  - Read Section 20 through Example 20.7
  - Read Section 21

- **November 22**
  - Read Section 22
  - Review for Exam 3

- **November 29**
  - Properties of continuous functions

- **December 1**
  - Exam 3

- **December 6**
  - Read Section 10

- **December 8**
  - Continue discussion of Section 10 and review for final
- December 15
  Final Exam 10:30 - 12:30

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