Mathematics 3000.001 Syllabus - Spring 2011

Prerequisite: Math 1720 or equivalent


Professor: Neal Brand

Office: GAB 417B M 2:30-3:30, T 1:30-2:30, W 3-4:30, Th 2:00-3:30 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 or 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 February 17, March 29 and April 26. The final exam is scheduled for Thursday May 12 at 1:30.

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/3000/2011Spring1/3000.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 indicted 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.

- **January 18**
  - First day of class - introduction to proofs.
  - A puzzle
- **January 20**
  - Read Section 13 through Practice 13.5
- **January 25**
  - Read Section 5
- **January 27**
  - Continue with Section 5
  - Page 46 5.1, **5.2, 5.3, 5.4, 5.5, 5.8**
- **February 1**
  - Read Section 1
- **February 3**
  - Read Section 2
- **February 8**
  - Continue discussion of Sections 1 and 2
  - Read Section 13
- **February 10**
  - Continue discussion of Section 13
- **February 15**
  - Review and continue discussion of Section 13
- **February 17**
  - Exam 1
- **February 22**
  - Read Section 14 through Lemma 14.4
- **February 24**
  Read Section 11
- **March 1**
  Continue discussion of Section 11
- **March 3**
  Read Section 12
- **March 8**
  Continue discussion of Section 12
- **March 10**
  Read Section 14
- **March 22**
  Continue discussion of Section 14
- **March 24**
  Continue discussion of Section 14 and review for exam
- **March 29**
  Exam 2
- **March 31**
  Read Section 16 through Example 16.1
- **April 1**
  Read Section 6
- **April 5**
  Continue discussion of Section 6
- **April 7**
  Continue discussion of Section 6
- **April 12**
  Read Section 7
- **April 14**
  Continue discussion of Section 7
- **April 19**
  Continue discussion of Section 7
- **April 21**
  Review for Exam 3
- **April 26**
  Exam 3
- **April 28**
  Read Section 10
- **May 3**
  Continue discussion of Section 10
- **May 5**
  Continue discussion of Section 10 and review for final
- **May 12**
  Final Exam 1:30 - 3:30