Mathematics 3000.002 Syllabus - Spring 2011

**Prerequisite:** Math 1720 or equivalent

**Book:** Analysis with an Introduction to Proof by Steven R. Lay (4th Edition)

**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 18, March 25 and April 25. The final exam is scheduled for Monday May 9 at 10:30.

**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/3000/2011Spring2/3000.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.

- **January 19**
  - First day of class - introduction to proofs
  - A puzzle
- **January 21**
  - Read Section 13 through Practice 13.5
- **January 24**
  - Read Section 5
- **January 26**
  - Continue discussion of Section 5
- **January 28**
  - Continue discussion of Section 5
  - Page 46 5.1, 5.2, 5.3, 5.4, 5.5, 5.8
- **January 31**
  - Read Section 1
- **February 2**
  - Read Section 2
- **February 4**
  - Continue discussion of Sections 1 and 2
- **February 7**
  - Read Section 13
- **February 9**
  - Continue discussion of Section 13
- **February 14**
  - Continue discussion of Section 13
February 16
Review for Exam 1 and continue discussion of Section 13

February 18
Exam 1

February 21
Read Section 14 through Lemma 14.4

February 23
Read Section 11

February 25
Continue discussion of Section 11

February 28
Continue discussion of Section 11
Read Section 12

March 2
Continue discussion of Section 12

March 7
Continue discussion of Section 12

March 9
Continue Discussion of Section 12

March 11
Read Section 14

March 21
Continue Discussion of Section 14

March 23
Continue discussion of Section 14

March 25
Review for Exam 2

March 28
Exam 2

March 30
Read Section 16 through Example 16.1

April 1
Read Section 6

April 4
Continue discussion of Section 6

April 6
Continue discussion of Section 6

April 8
Continue discussion of Section 6

April 11
Continue to discuss Section 6
Read Section 7

April 13
Continue to discuss Section 7

April 15
Continue to discuss Section 7
- **April 18**
  Continue to discuss Section 7
- **April 20**
  Continue to discuss Section 7
- **April 22**
  Review for Exam 3
- **April 25**
  Exam 3
- **April 27**
  Read Section 10
- **April 29**
  Continue to discuss Section 10
- **May 2**
  Continue discussion of Section 10
- **May 4**
  Continue discussion of Section 10 and review for final
- **May 9**
  Final Exam (10:30-12:30)

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