

**Actuarial Science 61 Syllabus  
Spring 2002**

**Instructor: Bonnie Averbach**

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**(When you enter Ritter Annex, take elevator 1 or 2 to the 4<sup>th</sup> floor. Get off at the rear of the elevator. Our offices are on the left.)**

**Office hours: Monday 10AM- 3:30pm, Wednesday 9AM - 12 AM, Thursday: 9 - 2PM**

**Other times by appointment only**

**NOTE: Classes will meet 4-6:40 pm**

(1)Text: Course 100 Examination Preparation Manual by Averbach and Mehta (To be obtained from Professor Mehta, Wachman Hall, 4<sup>th</sup> floor opposite from the Math Library. He is only available on Monday, Wednesday and Friday (He is in class 9:30 - 12:30 on these days and leaves at 2) Call before you go 215-204-7283.

Calculator: BA35 Xa II Solar. It has trig functions and 3 memories. The Texas Instrument BA 35 is OK.

Week 1-- Jan 28: **Inequalities, absolute value, functions limits, continuity including piecewise fcn.**

Week 2--Feb. 4: **Derivatives and applications Riemann sums,**

Week 3-- Feb 11: **Fundamental Theorem of integral calculus, the definite integral. Applications**

Week 4:-- Feb 18: **Polar coordinates, parametric equations, vectors, sequences, series**

Week 5--Feb 25: **Multiple integration**

Week 6: March 4: **start probability until the end of the semester: Probability. I will hand out a syllabus then**

Week 7--**March 11: Spring Break**

Week 8 --March 18

Week 9: --March 25

Week 10:--April 1

Week 11--April 8

Week 12--April 15

Week 13--April 22

Week 14--April 29

Week 15--May 5

**Homework: Will be given each class. The homework will be graded and must be done.**

**Every three weeks you will have a take-home test (50% of your grade).**

**Homework: 10% and Final 40%**

**There will be a final exam**

**A graduate student will be available to answer any questions that you have.**