

**Math 480, Spring 2017**

***Introduction to actuarial science***

**Syllabus**

**Instructor:** Dr. Xin Dang  
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**Course contents and goals:** This course is to develop knowledge of the fundamental probability tools for quantitatively assessing risk with emphasis on the application of these tools to problems encountered in actuarial science. The course introduces concepts on general probability, univariate distributions, multivariate distributions and risk management. The techniques and skills for applying those concepts to solve problems will be emphasized. This course will be helpful for students to prepare for Exam P or Exam 1 jointly administrated by SOA and CAS.

**Textbook:** Probability for Risk Management, 2<sup>nd</sup> edition, by M. Hassett and D. Stewart

**Recommended:** ACTEX Study Manual for Exam P/1, by S. Borverman

**Grading Policy:**

1. Homework will be assigned weekly but not collected and graded. Some solutions will be provided and some will be discussed in class.
2. Quizzes count total 200 points.
3. The midterm exam counts 100 points.
4. The final examination is comprehensive and counts 200 points.

**Final Grade:** The cumulative total points are 500+bonus points.

**A:** >450, **B+:** 425-449, **B:** 400-424, **C+:** 375-399, **C:** 350-374, **D:** 300-349

For more information about actuarial career and exams:

<http://www.soa.org/>

<http://www.casact.org/>

<http://www.BeAnActuary.org>