

MA/STAT 25000
Problem Solving in Probability

Syllabus

Fall 2015

Meeting Times and Location: TR 3:30-4:20pm in UNIV 003

Instructor: Rachel Lynn

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Office: MATH 641

Office Hours: W 3:10-4:10 pm, F 12:00-1:00 pm, and by appointment

Webpage: <http://www.math.purdue.edu/~rvlynn/>

Textbook: ACTEX P/1 Study Manual, 2012 Edition

Author: Samuel A. Broverman, Ph.D., ASA

ISBN: 978-1-56698-894-0

Calculators: Only the following models of Texas Instruments calculators are approved:

- BA-35
- BA II Plus
- BA II Plus Professional
- TI-30Xa
- TI-30X II (IIS solar or IIB battery)
- TI-30XS MultiView (or XB battery)

Credit Hours: 2.00

Course Description: This course is designed to teach techniques for solving problems in probability theory which are relevant to the actuarial sciences. It is intended to help actuarial students prepare for the Society of Actuaries and Casualty Actuarial Society Exam P/1. Credit of Examination is not available for this course. MA/STAT 416 is strongly recommended.

Homework: There will be 20 handwritten homework assignments on problems from the textbook. Typically, material covered in class will have homework that will be collected at the beginning of the next class period. (See the Course Calendar for more details.) Each homework assignment will be assigned a score of 0, 1, or 2 depending on effort and understanding of the material, but it will NOT be graded in detail. Late homework will NOT be accepted. Each student's cumulative homework score will determine his/her grading scale. **Please staple your homework pages together!**

Exams: There will be 2 midterm exams in class and a final exam to be announced. Each midterm exam will be worth 100 points and will consist of 10 multiple-choice questions. The final exam will be comprehensive and worth 200 points, and will consist of 20 multiple-choice questions.

Midterm Exam 1
 Midterm Exam 2
 Final Exam

If there are any special circumstances that may affect your ability to successfully complete an exam at the scheduled date and time (conflict with another course, University-sponsored activity, religious observation, illness, family emergency, etc.), please discuss the situation with your instructor BEFORE the exam, even if you must do so right before the exam. Do NOT wait until after you take the exam to mention a situation to your instructor.

If you miss an exam for any reason, contact your instructor immediately. You will be allowed to take an alternate exam without penalty by presenting your instructor with documentation of your absence. Otherwise, there will be a 20 point penalty without documentation of your absence. Not knowing the correct date, time, or location of an exam is not a valid reason for missing it.

Grades: Your semester grade will be determined by the total points accumulated on exams (out of a possible 400 points). Your performance on homework (out of a possible 40 points) determines the grading scale by which your cumulative exam score will be translated into a letter grade.

Cumulative Homework Score	Cumulative Exam Score	Letter Grade
32–40	240–400	A
	200–239	B
	0–199	C
20–31	260–400	A
	220–259	B
	180–219	C
	0–179	D
10–19	280–400	A
	240–279	B
	200–239	C
	160–199	D
	0–159	F
0–9	320–400	A
	280–319	B
	240–279	C
	200–239	D
	0–199	F

Academic Dishonesty: The Mathematics Department, following University policy, prohibits academic dishonesty. For details regarding the University policy on academic dishonesty, see <http://www.purdue.edu/odos/osrr/academicintegritybrochure.php>.

Students with Disabilities: In this mathematics course, accommodations are managed between the instructor, student, and DRC Testing Center. Students should see the instructor outside class hours – before or after class or during office hours – to share their Accommodation Memorandum for the current semester and discuss their accommodations as soon as possible.

Campus Emergency Policy: In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructors control. Relevant changes to this course will be posted on the course webpage or can be obtained by contacting the instructor.

University Grief Policy: In the unfortunate event of the loss of a loved one, students should contact the Office of the Dean of Students to request that a notice of his or her leave be sent to instructors. The student will provide documentation of the death or funeral service attended to the ODOS. Given proper documentation, the instructor will excuse the student from class and provide the opportunity to earn equivalent credit and to demonstrate evidence of meeting the learning outcomes for missed assignments or assessments.

Important Dates:

- August 7 – no class in observance of Labor Day
- October 12-13 – no class in observance of Fall Break
- November 25-28 – no class in observance of Thanksgiving Break
- December 14-19 – Final Exams