

**Instructor** John J. Currano  
**Office** Auditorium Building, Room 416  
**Hours** Monday 4-5:50  
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**Voice Mail** 312-341-2435 (I check email more frequently than voice mail)  
**Course Web Site** <http://faculty.roosevelt.edu/currano/m347/>

**Additional Course Documents** (on the faculty web and [RU Online](#))

[Syllabus](#) (this page in pdf)                      [Homework & Assignment Solutions](#) (on [RU Online](#))  
[Class Schedule](#)                                      [Tests & Solutions](#)  
[Lecture Notes](#) (PowerPoint and pdf files)      [Tutoring Schedule](#)  
[Homework and Assignments](#)

**Location:** Auditorium Building, Room 406, Mondays 6:00 - 8:30.

**Text:** *Mathematical Statistics with Applications*, 7th Ed., Wackerly, Mendenhall, Scheaffer, Duxbury /Thompson Learning, 2008, ISBN-10: 0495110817; ISBN-13: 9780495110811.

*Student Solutions Manual* (optional)

[Click here](#) for the **Applets referenced in the text.**

**Prerequisite:** A grade of C- or better in [MATH 233](#), Calculus 3; or a grade of C- or better in [MATH 232](#), Calculus 2, and concurrent registration in [MATH 233](#), Calculus 3. By mid-semester you will need to be comfortable with double integrals, including determining the limits of integration given the region over which the integration is to be performed.

**Course Description.** This course is a mathematical introduction to probability theory. Topics will include probability, discrete & continuous probability distributions, multivariate distributions, and functions of random variables. In order to increase the likelihood of success in this course it is recommended that the student attend class without fail, religiously complete the homework, read the textbook, focus on understanding the concepts (not just the rote computations), and seek help from the professor and other sources when needed. A significant portion of each class will consist of examples and problem solving, so be sure to do the [assigned reading](#) before class. [Lecture notes](#) will be available on the class website before each class. Make notes of topics you feel need elaboration in class, or, better yet, let me know before class which topics you feel need clarification. You are responsible for all [assigned reading](#) even if it is not discussed in class.

**Course Materials.** The course syllabus, lecture notes, assignments, previous years' tests and solutions, and other course materials, as well as some useful web links will be available on the Roosevelt Faculty Web at <http://faculty.roosevelt.edu/currano/M347/> and on the course site on [RU Online](#) (usually by a link to the material on the Faculty Web). Solutions to homework exercises and assignments will only be available on [RU Online](#). Check one of these websites weekly since the course materials posted there reflect all changes, additions and corrections.

**Communication.** [RU Online](#) has a threaded **Discussion Board** where you can post comments, ask questions, and reply to the comments and questions of others, as well as facilities for emailing the instructor and your classmates. I usually respond to questions posted on the Discussion Board or sent by email within 24 hours (48 hours on weekends). I check both of these more frequently than voice mail, and there may be a longer delay if you leave a voice message.

Email sent via [RU Online](#), which I use to email the class, is sent by default to your Roosevelt email address, so please check your Roosevelt email regularly. You can also check your grades on [RU Online](#). Logon and check it out.

**Courtesy.** Please turn off all cell phones or set them on vibrate before entering the classroom. Class discussions are encouraged, but please address your remarks to the entire class.

**Homework** problems from the textbook will be assigned each week and discussed the following week. Hand in the even-numbered problems only. The answers to the odd-numbered problems are in the back of the book and their solutions are in the *Student Solutions Manual*. Use these aids wisely. No late homework will be accepted.

Several **assignments** will be collected and graded during the semester. This course carries both undergraduate (347) and graduate (447) credit. Each assignment will have one or two problems that will be required of graduate students and optional (extra credit) for undergraduates. Assignments are to be handed in separately from the homework problems.

**Midterm Tests** will be given on March 2 and April 13. Each will be closed book and 70 minutes in length. There will be **no make-ups** except for excused absences with advance notice. Tests and solutions from previous years are on the course website.

The **Final Examination** will be given on Monday, May 11, and will be closed book and comprehensive. There will be **no make-ups** except for excused absences with advance notice.

***Work must be shown in order to receive credit on homework, assignments, and tests.***

**Due Dates.** All due dates for the course will be strictly enforced. It is expected that all assignments will be turned in by the due date. No late work will be accepted without prior approval from the instructor.

**Academic Integrity:** Homework and assignments may be done collaboratively. Collaboration requires you to contribute to the solutions, work through the details on your own, and write your own solutions in your own words. Copying or rephrasing an answer or a solution (including the instructor's when problems are discussed in class) that is not your own is plagiarism. Plagiarism and cheating on a test are forms of Academic Dishonesty and will result in a grade of zero for a first offense and a grade of "F" in the course for a second offense. Second offenses will also be reported to the Assistant Vice President for Student Services. Roosevelt University's policies on Academic Integrity are on the web at <http://www.roosevelt.edu/plagiarism/>.

**Grading:** Regulations covering grades (especially **I** and **W**) are on pages 239-241 of the 2008 Undergraduate Catalog and on pages 203-204 of the 2008 Graduate Catalog. **Incompletes** will not be given, except to a student who has done passing work up to the Final Examination (including most of the homework) but misses the final exam because of an excused absence with advance notice. The last day to drop a class (with a grade of "**W**") is April 6. Anyone registered after April 6<sup>th</sup> must be graded solely on her/his performance.

<b>Determination of Course Grade</b>	
Homework & Assignments	25%
Midterm Tests (20% each)	40%
Final Exam	35%
Total	100%

## Useful Technology and On-line Resources

**Applets referenced in the text.** [Click here](#) or copy and paste the url below into your browser:

[http://www.thomsonedu.com/statistics/book\\_content/0495110817\\_wackerly/applets/seeingstats/index.html](http://www.thomsonedu.com/statistics/book_content/0495110817_wackerly/applets/seeingstats/index.html)

**Virtual Laboratories in Statistics.** This site, created by [Kyle Siegrist](#) of the University of Alabama at Huntsville, contains notes, exercises, and interactive Java applets. This site requires the use of the [Mozilla Firefox](#) browser (version 1.5 or later), with the [MathML fonts](#) installed and with the [Java plug-in](#) (version 1.5 or later). Directions on how to configure your machine are contained on the Virtual Labs website.

**Rice Virtual Lab in Statistics.** A similar site at Rice University created by David M. Lane.

**Basic Statistics on the TI-83/86/89.** How to use the TI-83 (or 84), 83+ (or 84+), 86, or 89 calculators to do typical statistical computations including computing descriptive statistics, confidence intervals, and p-values. These materials were developed by [David K. Neal](#), Department of Mathematics, Western Kentucky University, Bowling Green, KY.

**Microsoft Excel** configured with the Data Analysis Add-in (if it is not already on your machine then this should be on your Excel or Microsoft Office installation CD).

The **Society of Actuaries** (SOA) is an educational, research and professional organization which gives a series of actuarial examinations for the life and health insurance, pension, and finance and investment fields. It has information and study materials on the web, including:

[Associate of the Society of Actuaries \(ASA\)–Requirements](#)

[Exam P Home Page](#)

[Learning Outcomes and Links to Sample Questions and Solutions](#)

[Tables for Exam P](#)

[Copies of some past exams and solutions \(including 4 Course 1 Exams\)](#)

[Process for Validation by Educational Experience](#)

[Risk and Insurance Study Notes](#)

[Exam P/1 Computer–Based Testing \(CBT\) - General Information](#)

[Sample Computerized Exam P](#)



The **Casualty Actuarial Society** (CAS) is a professional organization which gives a series of examinations for the property and casualty field, which covers risks such as fire, accidents, medical malpractice, and personal injury liability. CAS Exam 1 is the same as SOA Exam P.

