

STAT 3611 Introduction to Probability and Statistics (Sections 001 & 002)

Fall 2015 (08/31/2015 - 12/11/2015)

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Lecture: SEC001: MWThF 1:00pm-1:50pm, EduE 36
SEC002: MWThF 11:00am-11:50am, EduE 16

Office Hours: MWThF 10:00am-10:45am, and/or by appointment

Course Web-Page: [Moodle](https://moodle.umn.edu/) (<https://moodle.umn.edu/>)

Calendar Description

Basic probability, including combinatorial methods, random variables, mathematical expectation. Binomial, normal, and other standard distributions. Moment-generating functions. Basic statistics, including descriptive statistics and sampling distributions. Estimation and statistical hypothesis testing. (4.0 credits)

Prerequisite: A grade of at least C– in Math 1290 or Math 1296

Text

Probability and Statistics for Engineers and Scientists, 9th ed., Walpole, Myers, Myers & Ye, Prentice Hall, 2012.

Course Content

Time permitting, topics will include: Introduction and Review; Probability (2.1–2.7); Random Variables & Probability Distributions (3.1–3.4); Mathematical Expectation (4.1–4.3); Some Discrete Probability Distributions (5.1–5.5); Some Continuous Probability Distributions (6.1–6.7); Fundamental Sampling Distributions (8.1–8.6); One- and Two-sample Estimation Problems (9.1–9.5, 9.8, 9.10–9.12); and One- and Two-sample test of hypotheses (10.1–10.5).

Grading Scheme

Homework	25%
Quizzes	10%
Term Tests	40%
Final Examination	25%
Total	100%

Homework

There will be written homework assignments given throughout the semester. Some, but not necessarily all, of the problems will be graded. Homeworks are not necessarily of equal value. Make every effort to hand in homework **on time**; late homework will only be accepted under exceptional circumstances. Please carefully follow the homework instructions that can be found on [Moodle](#).

Quizzes

There will be quizzes given in class *with or without prior warning*. Unexcused absence on the quiz days will result in a score of zero.

Tests

There will be two (2) term tests that are scheduled to be held *outside of the regular class periods* on Thursdays **October 8, 2015** and **November 19, 2015**, respectively, commencing at 6:00pm. Each test will be 50 minutes in duration. The locale is TBA. If you must miss a test for valid medical or compassionate reasons please be sure to make arrangements **before** the test. The tests are “non-accumulating” except to the extent that the material in the later parts of the course necessarily depends on that from the previous ones.

Final Examination

The final examination will be 115 minutes in duration and will be held in **MWAH 195** on Monday **December 14, 2015**, commencing at 4:00pm. Final exam policy can be found at <http://www.d.umn.edu/vcaa/FinalExams.html>.

For the quizzes, tests and examination: (i) photo identification (e.g., student card) may be requested, (ii) not-too-fancy calculators are permitted, (iii) electronic devices, such as iPad, cell phones or headphones, are prohibited, (iv) statistical tables will be provided, if required, and (v) some selected formulas will be provided, if required.

Academic Dishonesty

Academic dishonesty tarnishes UMD’s reputation and discredits the accomplishments of students. UMD is committed to providing students every possible opportunity to grow in mind and spirit. This pledge can only be redeemed in an environment of trust, honesty, and fairness. As a result, academic dishonesty is regarded as a serious offense by all members of the academic community. In keeping with this ideal, this course will adhere to UMD’s Student Academic Integrity Policy, which can be found at <http://www.d.umn.edu/vcaa/StudentAcademicIntegrity.html>. This policy sanctions students engaging in academic dishonesty with penalties up to and including expulsion from the university for repeat offenders.

Student Conduct Code

The instructor will enforce and students are expected to follow the University’s Student Conduct Code (<http://www.d.umn.edu/conduct/>). Appropriate classroom conduct promotes an environment of academic achievement and integrity. Disruptive classroom behavior that substantially or repeatedly interrupts either the instructor’s ability to teach, or student learning, is prohibited. Disruptive behavior includes inappropriate use of technology in the classroom. Examples include ringing cell phones, text-messaging, watching videos, playing computer games, doing email, or surfing the Internet on your computer instead of note-taking or other instructor-sanctioned activities.

Disability Accommodations

It is the policy and practice of the University of Minnesota, Duluth, to create inclusive learning environments for all students, including students with disabilities. If there are aspects of this course that result in barriers to your inclusion or your ability to meet course requirements – such as time limited exams, inaccessible web content, or the use of non-captioned videos – please notify me as soon as possible. You should also contact the Office of Disability Resources to discuss and arrange reasonable accommodations. Please call 218-726-6130 or visit the Disability Resources website at www.d.umn.edu/access for more information.

Students may withdraw from classes without collegiate approval with a notation of a “W” on their record **by the end of the 10th week**.

There will be **NO** class on September 7, October 29 and 30, November 26 and 27, in lieu of holiday and the fall break.