

COURSE INFORMATION

- Lecture: MWF 8 – 8:50 am DuSable 254
- Instructor: Michael Eraas Office: DuSable 356 Office Phone: (815) 753-2016
E-mail: meraas@niu.edu Office Hours: MWF 10 – 10:50 am / TTh 1:45 – 3 pm / or by appt.
- Graduate TA: Philippe Dovoedo Office: DuSable 374 Office Phone: (815) 753-1723
E-mail: Z1690534@students.niu.edu Office Hours: T 10 – 11 am (DU 374) / Th 10 – 11 am (DU 326)
- Blackboard Page: <https://webcourses.niu.edu/webapps/portal/frameset.jsp>

COURSE DESCRIPTION

Introduction to the basic ideas and fundamental laws of probability including sample spaces, events, independence, random variables, special probability distributions and elementary statistical inference.

Prerequisite: MATH 230. Credit Hours: 3.

COURSE OBJECTIVES

- To develop a basic understanding of statistics and statistical methods and their roles in today's world
- To develop a basic understanding of probability based on concepts from integral and differential calculus
- To develop a basic understanding of the methods for statistical inference based on concepts from integral and differential calculus
- To develop logical thinking as applied to statistical reasoning
- To develop abstract thinking as applied to statistical reasoning
- To develop statistical problem solving skills
- To appreciate the correct application and interpretation of statistical methods

REQUIRED TEXT

- Probability and Statistics for Engineering and the Sciences, 8th Edition, by Jay L. Devore

GRADING: Your course grade is based on 450 points, allocated as follows

Exam 1	100 points
Exam 2	100 points
Final Exam (Thursday, December 12, Noon – 1:50 pm)	150 points
Homework	50 points
Quizzes (Announced and/or Unannounced)	50 points
Total	450 points

- Your lowest homework grade will be dropped. After your drop, if your homework average = 90%, then you'll receive $0.9 \times 50 = 45$ points.
- Your two lowest quiz grades will be dropped. After your drops, if your quiz average = 90%, then you'll receive $0.9 \times 50 = 45$ points. No makeup quizzes will be given.
- With a total of 450 points possible, the cut points for the various letter grades will be no higher than:

Letter Grade	A	A–	B+	B	B–	C+	C	D
Number of Points	418	405	391	373	360	346	315	270

- A grade of incomplete (I) will only be considered for students who are passing the course but cannot complete the course due to serious reasons of health, family, etc.

EXAMS

- The midterm exams will be given during regular class time. The exact dates for these exams will be announced in lecture and/or on the Blackboard page for the course.
- All exams are closed-book, but relevant formulas will be provided at the exams. You may use a hand-held calculator at the exams. Sharing of calculators is not allowed. You cannot use calculators in cell phones, iPods, PDAs, etc. Cell phones are to be turned off (not just muted) and kept away during exams.
- Make-up exams will only be given when a student has a planned, documentable, and excusable absence on a test date and personally negotiates the make-up in advance. For sudden, documentable, and excusable absences (illness, death, etc), the points from the missed exam will be added to the final exam. Unexcused absences (oversleeping, forgetting, etc) will result in a score of zero.
- The (cumulative) final exam is on Thursday, December 12 from Noon – 1:50 pm. This is a mass exam with different timing from the standard final exam schedule. The final exam room will be announced in lecture.

HOMEWORK

- There are a total of 8 homework assignments. The exact assignments and due dates will be announced in lecture and/or on the Blackboard page for the course. No late assignments will be accepted.
- Assignments are to be neat and presented logically on loose-leaf paper. Paper from spiral notebooks is unacceptable. If more than one sheet of paper is used, the pages must be stapled together. You are to show all your work. If an assignment is messy, disorganized or does not follow the previously stated instructions, it will be returned and you will not receive credit for that assignment.
- Students are allowed to discuss homework assignments, but you should not look at another student's paper. Each student must write his/her solutions in their own way, using their own words.
- Please note that because of the quick pace of this course it is unlikely that all of your assignments will be graded and returned to you before the exams. You may want to make copies of your assignments before turning them in.

MISCELLANEOUS

- You are encouraged to ask questions and to participate in class discussions, however talking in class while the instructor is lecturing is highly frowned upon.
- Cell phones are to be muted or turned off during lectures and visits to office hours and kept away during exams and quizzes. In particular, texting during class is prohibited. Violations will be considered as class disruptions, or worse, and will be treated accordingly.
- If you need assistance with the course material please feel free to contact your instructor and/or the teaching assistant. Help is also available in the Statistics Assistance Center (DuSable 326). Please see the Blackboard page for the course or DuSable 326 for the schedule of when help is available for STAT 350.
- Northern Illinois University is committed to providing an accessible educational environment in collaboration with the Disability Resource Center (DRC). Any student requiring an academic accommodation due to a disability should let his/her faculty member know as soon as possible. Students who need academic accommodations based on the impact of a disability will be encouraged to contact the DRC if they have not done so already. The DRC is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 (V) or drc@niu.edu.
- Please see http://www.niu.edu/stat/courses/pdfs/Accessibility_Statement.pdf for policies on academic integrity, attendance, and accommodations for students with disabilities.
- The syllabus may be changed at any time. Changes will be announced in lecture.

TENTATIVE SCHEDULE

Week	Sections	Assignments
August 26	1.1 – 1.4	
September 2 (NIU closed Sep. 2 – Labor Day)	2.1 – 2.2	Ch 1: 18(a,b), 20(b), 25, 34(a,b), 42, 44, 45(a,b,d), 52
September 9	2.4 – 2.5	
September 16	3.1 – 3.2	Ch 2: 9, 11, 12, 26(a,b), 45, 46, 50, 59, 60, 74, 78, 80, 84
September 23	3.3 – 3.4	
September 30	3.6, Exam 1	Ch 3: 13(a,b,c,d), 18, 24, 29, 30, 32, 46, 48, 53, 80, 82
October 7	4.1 – 4.3	
October 14	5.1 - 5.3	Ch 4: 1, 2, 5, 11, 12(a,b,c), 17, 28(a,d,g,j), 29, 31, 32, 33, 35, 40, 54
October 21	5.4 - 5.5	
October 28	7.1 – 7.3	Ch 5: 3(a,b,d), 4, 7, 22, 30, 46, 47, 50, 60
November 4	8.1 – 8.2, Exam 2	Ch 7: 1, 4(a,b,c), 5, 7, 13(a), 20, 23, 28, 32, 37(a)
November 11	8.3 – 8.5	
November 18	9.1 – 9.3	Ch 8: 4, 7, 16, 26, 32, 34(a), 39, 43(a), 48, 50, 55
November 25 (No classes Nov. 27 – Dec. 1 – Break)	9.4, 12.1	
December 2	12.2, Review	Ch 9: 3, 19, 20, 25, 28, 36, 50(a), 51, 52 Ch 12: 24(a,b)
Final Exam: Thursday, December 12, Noon – 1:50 pm, Room TBA		