

Summer II 2008

MTH U115 APPLICATIONS IN ALGEBRA

Instructor: John Lindhe

E-mail: j.lindhe@neu.edu

Office: 541 NI

Phone: x5534

Office Hours: M-Th 12-1:20

Text: Finite Mathematics with Applications by Lial, Hungerford & Holcomb, Custom Edition (the code for the online homework, MyMathLab is included). A class packet is also required and may be purchased at Gnomon Copy, 325 Huntington Avenue.

General course objective: This course focuses on the development of mathematical thinking and its use in a variety of contexts to translate real-world problems into mathematical form and, through analysis, to obtain new information and reach conclusions about the original problems.

COURSE POLICIES:

1. There will be two quizzes per week to keep students up to date on the material. If you miss a quiz there is no make-up. } If the absence is due to a university supported absence (i.e. jury duty, military duty, hospitalization, ...), then the following quiz will count twice to replace the missing grade. This does NOT apply if you miss class due to the flu, a wedding, work, etc. The best 5 quizzes will be used to determine your quiz average.

2. There will be a one-hour midterm and a two-hour, cumulative, departmental final exam. No student will be granted a request for a special final exam unless it is due to a registrar created conflict. If you miss either of these exams you will receive a grade of zero, as there will be no make-up exams given. Our final exam is scheduled for MONDAY AUGUST 18 at 1pm. A plane ticket home will not excuse you from this exam, so please plan accordingly.

3. Your grade in the course will be determined as follows:

Quizzes: 35%, **Midterm** 25%, **Final Exam:** 40%

THERE IS NO SCALING OF QUIZ OR EXAM GRADES IN THIS COURSE.

You will be graded to the following scales:

Final Avg	Grade	Final Avg	Grade
96 -100	A	92 -95	A-
89 -91	B+	86 -88	B
83 -85	B-	80 -82	C+
77 -79	C	75 -76	C-
73 -74	D+	71 -72	D
69 -70	D-	0 -68	F

4. Homework will be assigned regularly on Course Compass (www.coursecompass.com). Students who complete the majority of problems in each homework assignment will gain an extra quiz grade that is equal to the homework grade average. The course ID is lindhe65019.

5. A calculator is required, preferably a TI-83.

6. It is the student's responsibility to be aware of what happens in the classroom, including announcements of possible exam (or quiz) date changes, material that will be covered and changes to the syllabus, which may occur. If classes are cancelled for any reason, scheduled quizzes or exams will be given the following class. Announcements will also be posted on the class page of www.coursecompass.com.

7. If you have a concern about this course that cannot be resolved by speaking with your instructor then please contact the course coordinator, Joan Campbell, 543 NI, ext. 4882, j.campbell@neu.edu or Undergraduate Director of the Department of Mathematics, Professor Alexander Martsinkovsky, 471 Lake Hall, ext. 5510, alexmart@neu.edu.

8. You may receive any extra help in this course at the Math Tutoring Center in 540B NI. The tutoring center offers free tutoring on an individual basis. You just need to sign up for an appointment. Please seek help as soon as you experience any difficulty, do not wait until just before an exam. The date that the tutoring begins will be announced in class. The hours are: M-Th 12-5.

9. Northeastern University is committed to the principles of intellectual honesty and integrity. All members of the Northeastern community are expected to maintain complete honesty in all academic work, presenting only that which is their own work in tests and assignments.

10. We encourage students with disabilities, including "invisible" disabilities like chronic diseases or learning disabilities, to discuss with your instructor, after class or during office hours, appropriate accommodations which might be helpful for you. Your disability must be verifiable. The Disabilities Resource Center (20 Dodge Hall, ext. 2675) can provide you with information and other assistance.

Schedule

- 8.2 Venn Diagrams
- 8.1 Sets
- 8.3 Introduction to Probability
- 8.4 Basic Concepts of Probability
- 8.5 Conditional Probability and Independent Events
- 8.6 Bayes Theorem
- 9.1 Probability Distributions and Expected Value
- 9.2 Multiplication Principle, Permutations and Combinations
- 8.3 Applications to Counting
- 9.4 Binomial Probability
- 9.5 Markov Chains
- Linear Regression

Important Dates

Friday 7/11	Last day to drop class without a W grade
Monday 7/14	Last day to file a final exam conflict form
Friday 8/1	Last day to drop class with a W grade
Thursday 8/14	Last day of classes
Monday 8/18	Final Exam (1pm)