

Math 242  
syllabus  
Spring, 2007

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**Professor:** Matthew Neal ([nealm@denison.edu](mailto:nealm@denison.edu))  
**Office and phone:** Olin 202 (6288)  
**Office Hours:** M 2:30 - 5 (some days I will be out from 3:30 to 4:30 for a department meeting-I'll let you know)  
T 8:30 - 11:30, 2:30-5 F 2:30 - 5 or by appointment  
**Web site:** <http://personal.denison.edu/~nealm/>

### Course

This is a course in Calculus based Probability and Statistics. Our main goal is to understand how to use probability in the analysis of data samples to infer facts about the variable being sampled. We will cover selected topics from Ch 2 - 12 in the Book plus a unit on experimental design and data collection techniques.

### Audience

This course is intended for students who have successfully completed Math 124.

### Book

*Ross: Introduction to Probability and Statistics for Engineers and Scientists, 3rd edition*

### Grades and Expectations

The grade will be calculated with the following weights:

- 25 % for each of three tests
- 25 % Final exam

Grade Scale: 90-100 A 78-89 B 66-77 C 50-65 D 0-49 F

The final takes place in our classroom on Wednesday, May 2nd, 9-11 a.m.

### Tests

Tests occur every three weeks on Tuesday. There may be a 1 or 2 problem take home component to the tests which is due the next day. The first test will occur on Tuesday, February 6th. You are responsible to understand everything said in class or written in the text for the sections covered as well as every problem assigned. Note that understand does not mean memorize and problems on the test will not be identical to homework problems.

### Tuesdays

Tuesdays will be spent discussing homework and having tests and quizzes. Those who cannot come to Tuesdays can arrange another time on Tuesday to meet me.

### Homework checks

I will do 2 problem quizzes each Tuesday to check that you are doing the homework. These problems will be exactly like homework problems, sometimes verbatim and sometimes with a number changed but the same wording. Each problem will receive a -2 points for a completely wrong answer, 0 points for a partial answer, and +2 for a correct answer. These points will be added or subtracted from your next test. Note that each Monday I will pass out solutions to all the homework so you can check your work to that point. Please try to do as much as possible before checking the solutions.

## **Late Work**

Late tests will receive a 20 % point penalty per day late unless there is a written note (such as a note from Whistler) that verifies a VERY strong excuse (such as illness or important sports team events). Late homework is not accepted at all without a serious excuse as described above.

## **Office Hours**

Please come to office hours so I can get to know you better!

## **Disabilities**

Any student who feels he or she may need an accommodation based on the impact of a disability should contact me privately as soon as possible to discuss his or her specific needs. I rely on the Academic Support and Enrichment Center in 104 Doane to verify the need for reasonable accommodations based on documentation on file in their office.

## **Academic Integrity**

The students and faculty of Denison University and the Department of Mathematics and Computer Science are committed to academic integrity and will not tolerate any violation of this principle. Academic honesty, the cornerstone of teaching and learning, lays the foundation for lifelong integrity.

Academic dishonesty is, in most cases, intellectual theft. It includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for evaluation. This standard applies to all work ranging from daily homework assignments to major exams. Students must clearly cite any sources consulted not only for quoted phrases but also for ideas and information that are not common knowledge. Neither ignorance nor carelessness is an acceptable defense in cases of plagiarism. It is the students responsibility to follow the appropriate format for citations.

As is indicated in Denisons Student Handbook, available through [mydenison.edu](http://mydenison.edu), instructors must refer every act of academic dishonesty to the Associate Provost, and violations may result in failure in the course, suspension, or expulsion. (For further information, see <http://www.denison.edu/student-affairs/handbook/ar03s02s01.html>)