Finite Mathematics, MATH 1100, R06 (Fall 2016)

Lecture: TWF 8:30-9:20, FMH 312,

Instructor: Erli Wind-Andersen

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Office Hours: Tuesday, 9:30-11:30, JMH 422A

Textbook: "Finite Mathematics" by Lial, Greenwell, Ritchey, 10th Edition

Course Description: Mathematics of Finance, Sets and Probability, Counting Techniques and Further Probability, Statistics.

Grading Schedule:

Homework 30 %, Class Participation/Quiz 10%, Midterm I 20 %, Midterm II 20 %,
Final Examination 20 %

Midterm Policy: Midterms and the final examination will be taken in class, during the regular lecture period. The vast majority of problems will not require a calculator, those that do will be marked accordingly.

Homework Policy: Problem sets will arrive in an email. The following procedures will help you organize your thoughts and help the grader evaluate your work. Points will be deducted for failing to meet any of the following criteria.

- Homework will be hand written (or typed, if you're up to it!) on blank letter (8.5 by 11) paper,
- be STAPLED, and, if torn from a notebook, be without fringes.
- Your name and the date are to be given at the top right corner of the page.
- Each problem/solution should stand on its own. The problem at hand should be numbered and stated clearly, and the solution should follow in a logical and ordered fashion.

Important Dates:

- Midterm I: Wednesday, October 5, 8:30
- Midterm II: Friday, November 4, 8:30
- Final examination: TBD

Disability Statement: Anyone with a documented disability is encouraged to contact the instructor privately and the Office of Disability Services within the first week of class.

Lecture Schedule:

8/31. Section 5.1: Simple and Compound Interest

9/2. Section 5.1: SImple and Compound Interest

9/6. Section 5.2: Future Value and Annuity

9/7. No Class: Monday Schedule

9/9. Section 5.2: Future Value and Annuity

9/13. Section 5.3: Present Value of an Annuity

9/14. Section 5.3: Present Value of an Annuity

9/16. Section 7.1: Sets

9/20. Section 7.1: Sets

9/21. Section 7.2: Application of Venn Diagrams

9/23. Section 7.2: Application of Venn Diagrams

9/27. Section 7.3: Introduction to Probability

9/28. Section 7.3: Introduction to Probability

9/30. Section 7.4: Basic Concepts of Probability

10/04. Midterm Review

10/05. Midterm I

10/07. Section 7.4: Basic Concepts of Probability

10/11. Section 7.5: Conditional Probability

10/12. Section 7.5: Conditional Probability

10/14. Section 7.6: Bayes' Theorem

10/18. Section 7.6: Bayes" Theorem

10/19. Section 8.1: The Multiplicaitn Principle; Permutations

10/21. Section 8.1: The Multiplicaiton Principle; Permutations

10/25. Section 8.2: Combinations

10/26. Section 8.2: Combinations

10/28. Section 8.3: Applications of Counting Principles

11/1. Section 8.3: Applications of Counting Principles

11/2. Midterm II Review

11/4. Midterm II

11/8. No class

11/9. Section 8.4: Binomial Probability

11/11. Section 8.4: Binomial Probability

11/15. Section 8.5: Probability Distributions

11/16. Section 8.5: Probability Distributions

11/18. Section 9.1: Frequency Distributions

11/22. Section 9.1: Frequency Distributions

11/23. No Class: Thanksgiving Break

11/25. No Class: Thanksgiving Break

11/29. Section 9.2: Measure of Variation

11/30. Section 9.2: Measure of Variation

12/02. Section 9.3: The Normal Distribution

12/06. Section 9.3: The Normal Distribution

12/07. Section 9.4: Normal Approximation to the Binomial Distribution

12/09. Section 9.4: Normal Approximation and Review