

Indiana University South Bend Mathematical Sciences

Finite Mathematics

Fall 2008 (sample Syllabus)

M118 – 9010

Tuesday/Thursday

10:30 - 11:45 AM

NS225

INSTRUCTOR Morteza Shafii-Mousavi

Office: North Side Hall 323
Telephone: (574) 520-4516
E-mail: mshafii@iusb.edu
URL <http://mypage.iusb.edu/~mshafii>

Office Hours

Monday, Tuesday, Wednesday, & Thursday

10:00 – 10:30 AM

Other times are available by appointment.

TEXT: Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences
Eleventh Edition, by R. A. Barnett, M. R. Ziegler, & K. E. Byleen

CONTENTS:

Chapter 7	Sets:	Basic Counting Principles, Permutations, & Combinations
Chapter 8	Probability:	Sample Spaces, Events, and Probabilities Union, Intersection, and Complement of Events Odds, Conditional Probabilities, Intersection and Independence Bays' Formula: Tree Diagrams, Tables, Sets, and Formula Random Variables, Probability Distribution, and Expected Value Applications
Chapter 4	Systems of Linear Equations:	Matrices, Augmented Matrices, Gauss-Jordan Eliminations, Basic Operations Inverse of a Square Matrix, Applications
Chapter 5	Linear Inequalities and Linear Programming	System of Inequalities in Two Variables Linear Programming in Two Dimensions: Geometric Approach Linear Programming: General Model Applications
Chapter 6	Linear Programming: The Simplex Method	Standard Maximization Problems in Standard Form The Simplex Method: Geometric Approach, Algebraic Approach, Tableau Optimization (Maximum and Minimum Problems) Applications

Evaluation:

EXAM 1	50 points, Thursday, September 18
EXAM 2	50 points, Thursday, October 16
EXAM 3	50 points, Thursday, November 13
FINAL	100 points, Thursday, December 11

Grade = (the sum of above) / 2.5

Withdrawal & Drop Deadlines

100% refund: August 30
75% refund: September 6
50% refund: September 13
25% refund: September 20
Withdraw: October 31

Disabilities Statement: If you have disability and need assistance, special arrangements can be made to accommodate most needs. Contact Director of Disabled Student Services (Administration Building, Room A112 and A113, telephone number 520-4832), as soon as possible to work out the details. Once the director has provided you with a letter attesting to your needs for modifications, bring the letter to me.

Religious Accommodation Statement and Academic Honesty Statement are given at

<http://www.iusb.edu/~sbmath/pdf/statements.pdf>

FREE MATHEMATICS TUTORING IS AVAILABLE AT THE MATHEMATICS DEPARTMENT & the Academic Learning Center:

- Contact the Mathematics Department (NS-310, 520-4335); check schedule at www.iusb.edu/~sbmath during the first week of the class.
- Free tutoring is also available through the Academic Learning Center (AI-122, 520-5022); check schedule at www.iusb.edu/~sbalc/