

Math 450A/550A Theory of Statistics

Ohio University, 2006 First Summer Session

Call numbers: 11438 for Math 450A section 01
11441 for Math 550A section 01

Class meets: 10:10am-12:00pm Mon, Tues, Wed, Thurs in Morton Hall Room 313

Instructor: Mark Barsamian, barsamia@ohio.edu

Office: Morton Hall Room 538, phone (740) 593-1273

Office Hours: 1:00pm-2:00pm Mon, Tues, Wed, Thurs

Text: John E. Freund's Mathematical Statistics with Applications, 7th Edition
by Irwin Miller and Marylees Miller, Pearson/Prentice Hall, ISBN 0-13-142706-7

Course Description: The first of a three-course sequence, this course will cover roughly the first five chapters of Freund's book. A general idea of the topics can be inferred from the chapter titles: Probability, Probability Distributions and Probability Densities, Mathematical Expectation, and Special Probability Distributions.

Prerequisites: Math 263D

Course web page: <http://www.math.ohiou.edu/~barsamian/2006sum450A/2006sum450A.html>

Blackboard site: Will be used for posting handouts and grades. The gradebook will be updated weekly.

Homework: Homework assignments will be graded. You may work together on homework, but the words that you write should be your own. Late homework is not accepted.

Grading: Your course letter grade will be determined by the number of points that you accumulate on Homework, Midterm Exams, and the Final Exam. The table below shows the number of points possible.

Homework (5 assignments \times 20 points):	100 points
Midterm Exams (4 exams \times 150 points):	600 points
Final Exam:	300 points
Total Points Possible for the Quarter:	1000 points

Course letter grades will be computed by assessing your total score using the percentage scale shown in the table below. There will be no curve. An estimate of your current grade will be available on the Blackboard site throughout the quarter.

Total Score	Percentage Score	Letter Grade
900 - 1000	90% - 100%	A
850 - 899	85% - 89%	A-
800 - 849	80% - 84%	B+
750 - 799	75% - 79%	B
700 - 749	70% - 74%	B -
650 - 699	65% - 69%	C+
600 - 649	60% - 64%	C
550 - 599	55% - 59%	C -
400 - 549	40% - 54%	D
0 - 399	0% - 39%	F

Syllabus:	Date	Class topics	Homework Due
	Mon 19 Jun	1.1, 1.2, 1.3, 1.4	
	Tue 20 Jun	2.1, 2.2, 2.3	Homework 1
	Wed 21 Jun	2.4, 2.5	
	Thu 22 Jun	Review, Exam 1	
	Mon 26 Jun	2.6, 2.7	
	Tue 27 Jun	2.8, 2.9	
	Wed 28 Jun	3.1, 3.2	Homework 2
	Thu 29 Jun	Review, Exam 2	
	Mon 3 Jul	3.3, 3.4, 3.5	
	Tue 4 Jul	Holiday: no class	
	Wed 5 Jul	3.6, 3.7 (omit 3.8)	Homework 3
	Thu 6 Jul	Review, Exam 3	
	Mon 10 Jul	4.1, 4.2, 4.3	
	Tue 11 Jul	4.4, 4.5, 4.6	
	Wed 12 Jul	4.7, 4.8 (omit 4.9)	Homework 4
	Thu 13 Jul	Review, Exam 4	
	Mon 17 Jul	5.1, 5.2, 5.3, 5.4	
	Tue 18 Jul	5.5, 5.6, 5.7 (omit 5.8-5.10)	Homework 5
	Wed 19 Jul	review	
	Thu 20 Jul	Cumulative Final Exam during regular class meeting	

	Sections	Assigned Problems (turn in)	Suggested problems (do not turn in)
Homework 1:	1.1 - 1.4	8, 10, 12, 26, 40, 46, 54, 56	5, 9, 11, 14, 15, 17, 21, 22, 27, 28, 29, 37, 38, 39, 41, 45, 47, 49, 53, 55
	2.1 - 2.5	none	4, 5, 8, 9, 14, 15, 35, 40, 41, 42, 43, 53, 56, 61, 63, 64, 65, 66, 67, 71, 72, 74
Homework 2:	2.6 - 2.9	17, 18, 24, 76, 84, 88, 109, 110, 111, 116	19, 20, 22, 23, 25, 26, 27, 30, 34, 78, 80, 83, 89, 93, 97, 101, 103, 104, 105, 108, 115
	3.1 - 3.2	none	1, 3, 4, 6, 8, 13, 14, 15, 83, 85, 86, 89, 90
Homework 3:	3.3 - 3.5	18, 24, 42, 52, 54, 58, 60, 62, 64, 98	19, 25, 29, 30b, 32, 33, 43, 44, 45, 47, 49, 51, 55, 59, 63, 92, 97, 99, 101
	3.6 - 3.7	none	69, 70, 71, 72, 73, 75, 103, 106, 108
Homework 4:	4.1-4.5	8, 16, 20, 22, 24, 30, 34, 40, 66, 70	1, 2, 5, 7, 9, 12, 13, 21, 23, 26, 29, 31, 33, 37, 61, 63, 64, 69, 73, 75
	4.6-4.9	none	42, 43, 44, 45, 47, 52, 53, 55, 57, 76, 79
Homework 5:	5.1 - 5.4	3, 5, 6, 10, 48, 50, 52, 54	1, 7, 40, 41, 43, 45
	5.5-5.7	none	18, 19, 23, 28, 31, 33, 58, 59, 63, 64, 65, 69, 70, 73, 75, 80, 82