

**STT 264 SYLLABUS**  
**Statistics, Eleventh Edition, By McClave and Sincich**

- Read the sections in the text before the lecture.
- This syllabus is designed for class sections meeting three times per week.
- Sections meeting twice per week need to cover the material for “three classes” each week.
- The syllabus leaves a few classes for tests and other purposes.

Class	Section	Topics	Problems
1	All	Statistics, Data and Statistical Thinking	1.3, 1.7, 1.13, 1.15, 1.21, 1.23
2	2.1	Describing Qualitative data	2.1, 2.4, 2.7, 2.9, 2.11, 2.13, 2.15
	2.2	Graphical Methods for Describing Quantitative data	2.21, 2.23, 2.25, 2.31, 2.33, 2.37
3	2.3	Summation Notation	2.43, 2.45
	2.4	Numerical Measures of Central Tendency	2.46, 2.51, 2.53, 2.55, 2.57, 2.59, 2.63, 2.65
	2.5	Numerical Measures of Variability	2.72, 2.73, 2.74, 2.75, 2.79, 2.81, 2.85
4	2.6	Interpreting the Standard Deviation	2.88, 2.89, 2.91, 2.93, 2.95, 2.97, 2.99, 2.101
5	2.7	Numerical Measures of Relative Standing	2.103, 2.105, 2.107, 2.109, 2.113, 2.115, 2.117
	2.8	Methods of Detecting Outliers	2.119, 2.121, 2.125, 2.127, 2.129, 2.130
6	2.10	Distorting the Truth with Descriptive Technique	
	*	Supplementary Exercises	2.151, 2.153, 2.157, 2.161
7	3.1	Events, Sample Spaces, and Probability	3.1, 3.3, 3.5, 3.9, 3.10, 3.11, 3.19, 3.23, 3.25
8	3.2	Union and Intersections	
	3.3	Complementary Events	
	3.4	The Additive Rule and Mutually Exclusive Events	3.33, 3.37, 3.41, 3.43, 3.44, 3.45, 3.47, 3.55
9	3.5	Conditional Probability	
10	3.6	The Multiplicative Rule and Independent Events	3.59, 3.60, 3.63, 3.65, 3.67, 3.68, 3.69, 3.73
11	3.7	Random Sampling	3.95, 3.98, 3.104
12	*	Supplementary Exercises	3.141, 3.143, 3.145, 3.147, 3.149, 3.158
13	4.1	Two Types of Random Variables	4.1, 4.3, 4.5, 4.7
	4.2	Probability Distribution for Discrete Random Variables	4.13, 4.15, 4.16, 4.17, 4.19, 4.21, 4.25
14	4.3	Expected Values of Discrete Random Variables	4.33, 4.35, 4.37, 4.38
15	4.4	The Binomial Random Variable	4.48, 4.50, 4.53, 4.55, 4.57, 4.61, 4.63, 4.69
16	*	Supplementary Exercises	
17	5.1	Continuous Probability Distributions	
	5.2	The Uniform Distribution	5.1, 5.3, 5.9, 5.15
18	5.3	The (Standard) Normal Distribution	
19	5.3	The (General ) Normal Distribution	5.19, 5.21, 5.23, 5.25, 5.27, 5.30, 5.32, 5.39
20	5.5	Approximating a Binomial Distribution with a Normal Distribution	5.73, 5.77, 5.83
21	*	Supplementary Exercises	5.109, 5.111, 5.121, 5.123
22	6.1	The Concept of a Sampling Distribution	6.1, 6.2, 6.3, 6.5
23	6.2	Properties of Sampling Distributions: Unbiasedness and Minimum Variance	6.13, 6.3, 6.5
24	6.3	The Central Limit Theorem	6.21, 6.25, 6.27, 6.29, 6.31, 6.35, 6.39
25	*	Supplementary Exercises	6.53, 6.59, 6.63
REVIEW			

Revised December 4, 2008