

MAT-K167 Principles of Statistics

Three Rivers Community College

Syllabus

Spring 2008

Instructor Information:

- Instructor: Joe Johnson
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Course Objectives:

- As the course name indicates, this course will discuss the principles of statistics. Specific topics covered include the following:
 - Goal of statistics
 - Design of experiments
 - Summarizing and graphing data
 - Descriptive statistics
 - Probability concepts
 - Discrete probability distributions
 - Continuous probability distributions
 - Estimation
 - Hypothesis testing
 - Regression (time permitting)

Text:

- Triola, Mario F., [Elementary Statistics](#), Addison Wesley, ISBN 0321331834 (Required)

Course Requirements:

- Weekly homework assignments each consisting of 3 problems from the text (30%)
- Midterm Exam (30%)
- Final Exam (Cumulative) (30%)
- Class Discussion Participation (10%)

Schedule

Week Number	Date	Sections	Examples	Assignment
1	01/29	1.1, 1.2, 1.3, 1.4	1.2: 5, 7, 9, 11 1.3: 12, 18, 21, 24 1.4: 5-24	1.2: 6, 1.3: 13, 19 1.4: 25
2	01/05	2.1, 2.2, 2.3, 2.4	2.2: 5, 7, 13, 15 2.3: 5-8 2.4: 5-8	2.2: 8 2.3: 17 2.4: 9
3	02/12	3.1, 3.2, 3.3, 3.4	3.2: 6, 17 3.3: 6, 17, 32, 33 3.4: 6, 9, 13	3.2: 8 3.3: 10 3.4: 6
4	02/19	3.5, 4.1, 4.2, 4.3	3.5: 2, 3 4.2: 6, 7, 9, 17, 29 4.3: 7, 9-12, 23	3.5: 6 4.2: 8 4.3: 8
5	02/26	4.4, 4.5, 4.6	4.4: 5, 7, 11, 12 4.5: 5, 11, 18, 21-24 4.6: 5, 6, 7, 8	4.4: 6 4.5: 14 4.6: n/a
6	03/04	4.7, Review	4.7: 5-19 odd, 28	4.7: 8, 12, 22
7	03/11	Mid-Term Exam		
-----	03/18	SPRING BREAK	NO CLASS	-----
8	03/25	5.1, 5.2, 5.3, 5.4	5.2: 1, 5, 7, 9, 17-20 5.3: 5-13, 29-31, 33 5.4: 5, 9, 10, 19	5.2: 10 5.3: 4 5.4: 6
9	04/01	5.5, 6.1, 6.2, 6.3	5.5: 1, 3, 5, 9, 12 6.2: 1, 3, 9, 24, 25, 33, 37, 39 6.3: 5-17 odd	5.5: 10 6.2: 11 6.3: 7
10	04/08	6.4, 6.5, 6.6	6.4: 5, 7 6.5: 5-11 odd 6.6: 3, 5, 13, 21	6.4: 9 6.5: 8 6.6: 20
11	04/15	7.1, 7.2, 7.3, 7.4	7.2: 5-23 odd, 40, 41 7.3: 5, 9, 13, 17, 28, 31 7.4: 5, 9, 13, 18, 25	7.2: 6 7.3: 14 7.4: 14
12	04/22	7.5, 8.1, 8.2, 8.3	7.5: 5, 9, 13, 17 8.2: 9-39 odd 8.3: 5, 13, 16	7.5: 6 8.2: 10 8.3: 14
13	04/29	8.4, 8.5, 8.6	8.4: 5, 9, 14, 17	8.4: 10

			8.5: 13, 17, 21, 27 8.6: 11, 12, 18	8.5: 14 8.6: 13
14	05/06	Review		
15	05/13	Final Exam		