Prerequisites: Successful completion of Math 080 or 086 (C or better) or equivalent skills (as measured by a satisfactory score on the Math Level 3 exam in combination with a course equivalent to Math 080 or 086).

Course Student Learning Outcomes: As a result of successfully completing Math 219, the student will be able to:
1. Read and critically analyze the validity of a statistical statement by considering how the data was obtained and the appropriateness of the statistical methods used.
2. Collect data from a population and represent it in an organized and visual manner.
3. Read and interpret data represented in a chart or graph.

Attendance: Attendance is very important. You are responsible for any announcements made in class, including any changes to the schedule. A student may be dropped for excessive absences (10% or more of the classes). If you decide to drop this class, it is your responsibility to drop officially, on line or at the Admissions Office. See the official class schedule for relevant dates.

Important dates:
- September 10: Last day to add a class and last day to drop with fee refund.
- November 19: Last day to drop the class with a “W” grade.

Student Conduct: Guidelines for student conduct are set forth in the RSCCD “Standards of Student Conduct” policy (see the college catalog). Students who violate the Standards of Conduct are subject to disciplinary action which includes, but is not limited to, removal from class, suspension and expulsion. Unacceptable behaviors include, but are not limited to, dishonesty, disruptive behavior, and disrespect to instructor or other students. In an effort to reduce disruption during instruction, excessive talking to peers and unauthorized cell-phone or other electronic use will not be allowed.

Homework: Homework will be assigned and collected the next class period. It will be graded according to completeness and correctness on a scale of 0 to 2.5 points. After the first exam, homework may be penalized 1/2 point for each class it is late. You can expect to spend 2-4 hours on each assignment. It is necessary that you spend this time in order to really understand the material.

Quizzes: There will be quizzes given during the session each worth 5 points for a total of 100 points. There will be no make-up quizzes. After the first exam, students leaving class early will be penalized 2 points on that quiz.

Tests: There will be 3 tests each worth 175 points. The tentative dates are on the schedule. There will be no guarantee of make-up exams. The final exam, worth 225 points, is comprehensive and must be taken in order to pass this class.

Projects: There will be several projects done outside of class, together worth a total of 100 points. More details will be given later.

Accommodations for Disabilities: Students with verifiable disabilities who want to request academic accommodations are responsible for notifying their instructor and Disabled Students Programs and Service (DSPS) as early as possible in the semester or at least two weeks before the accommodation is needed. To have accommodations authorized, students must provide DSPS with verification and meet with a DSPS profession for an evaluation of needs. To arrange and appointment, contact DSPS by phone at (714) 628-4860 or email dspssccollege.edu or stop by the DSPS Center in E-105.

Calculators: We will be using graphing calculators in this class. A TI-83 or TI-84 is recommended. Ask me if you wish to use a different calculator.

Grades: Your grade will be decided as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td>525 pts</td>
</tr>
<tr>
<td>Homework</td>
<td>50 pts</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100 pts</td>
</tr>
<tr>
<td>Projects</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>225 pts</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1000 pts</td>
</tr>
</tbody>
</table>

If you score within the given range, you are guaranteed the grade:

- 90-100%       A
- 80-89%        B
- 70-79%        C
- 60-69%        D
- below 60%     F

Grades close to the cutoffs will be considered on an individual basis to determine if a student might receive a higher grade.
<table>
<thead>
<tr>
<th>Monday</th>
<th>Wednesday</th>
</tr>
</thead>
</table>
| 8/28   | 1.1 Definitions  
        | 1.2 Data, Sampling, and Variation  
        | Chapter 1: 1—38, 42—52 ALL  
        | 1.3 Frequency and Levels of Measurement  
        | 1.4 Experimental Design and Ethics  
        | Chapter 1: 39, 41, 53—89 ALL skip (70,83) |
| 9/4    | HOLIDAY    |
| 9/11   | 2.4 Box Plots  
        | 2.5 Centers of Data  
        | Chapter 2: 40—48, 84—88 ALL, 90,91  
        | 2.6 Skewness  
        | 2.7 Measures of Spread  
        | Chapter 2: 49—73, 91.94—103 ALL |
| 9/18   | 3.1 Probability Terminology  
        | 3.2 Independent/Mutually Exclusive  
        | 3.3 Rules of Probability  
        | Chapter 3: 1—17, 34—39, 44—53 ALL, 85—99 odd  
        | 3.4 Contingency Tables  
        | 3.5 Tree and Venn Diagrams  
        | 3.7 Combinations and Permutations  
        | Chapter 3: 54—57, 109—113 ALL, Section 3.7 1—24 ALL |
| 9/25   | REVIEW     |
| 10/2   | 4.1 Discrete Distributions  
        | 4.2 Expected Value and Standard Deviation  
        | Chapter 4: 1—27, 70—77 ALL  
        | 4.3 Binomial Distribution  
        | Chapter 4: 37—44, 92—100 ALL |
| 10/9   | 5.1 Continuous Distributions  
        | 5.2 Uniform Distribution  
        | Chapter 5: 1—12, 16—33,76—81 ALL  
        | 6.1 Standard Normal Distribution  
        | 6.2 Using the Normal Distribution  
        | Chapter 6: 1—39, 69—81 odd, 85,87 |
| 10/16  | 7.1 Central Limit Theorem Means  
        | Chapter 7: 1—6, 63,69,71, 78—84, 89,91,95,97 ALL  
        | 8.1 and 8.2 Confidence Intervals Mean  
        | Chapter 8: 1—5, 38—61 ALL, 95,99,100,107,111 |
| 10/23  | 8.3 Confidence Intervals Proportions  
        | Chapter 8: 117—123 odd, 125—133 ALL  
        | REVIEW |
| 10/30  | TEST #2    |
| 11/6   | 9.3 Distributions for Hypothesis Testing  
        | 9.4 Drawing Conclusions  
        | 9.5 Testing  
        | Chapter 9: 21—48 ALL, 73—85 odd, 105,106  
        | 10.1 and 10.2 Two Population Means  
        | 10.4 Matched Pair  
        | Chapter 10: 16—35, 63—77 ALL, 79,80,81,87,88,93 |
| 11/13  | 10.3 Two Population Proportion  
        | Chapter 10: 1—15 odd, 46—62, 103—107, 124—135 ALL,  
        | 11.2 Goodness-of-Fit  
        | 11.3 Tests for Independence  
        | 11.4 Tess for Homogeneity  
        | Chapter 11: 72,73,77,89,91,101,103 |
| 11/20  | 12.1 Linear Equations  
        | 12.2 Scatter Plots  
        | 12.3 Regression Equation  
        | Chapter 12: 1—27 ALL, 61  
        | 12.4 Testing Significance  
        | 12.5 Prediction  
        | Chapter 12: 28—35 ALL, 75—87 odd |
| 11/27  | 13.1 One-Way ANOVA  
        | 13.2 F Distribution  
        | 13.3 Facts about the F Distribution  
        | Chapter 13: 59,64,70,72, 73  
        | Non-Parametric Statistics  
        | Hypothesis Test Practice  
        | Appendix B: (p. 830) 23—54, 59—82 ALL |
| 12/4   | Review     |
| 12/10  | Review     |
|       | FINAL EXAM |

**Math Study Hall (MaSH) D-209 Monday–Thursday 9:30-7:30 and Saturday 9:00-3:00**

The MaSH is a service provided by SCC that gives students a chance to supplement the learning done in the classroom. There will always be a math faculty member, Instructional aides, and student workers on duty to assist you when needed. There are also computers in the room on which students can access mathematical software or do work for their on-line math class.

To use the MaSH, students must register in Math 219L (ticket: 42247). MaSH is a 0.2 unit class, so you can register for MaSH the same way you register for classes. Once enrolled, you can enter and exit the MaSH at any time during hours of operation. When you enter, you will slide your student ID card or just type in your student ID number at the MaSH sign in computer (no SSN). When you leave, you will sign out the same way. Signing out is very important. You may lose the hours you put in if you do not sign in and sign out appropriately.

MaSH is a pass/no pass class. To receive credit for the class, you must complete at least 10 hours during the semester and 2 study-skill assignments you will find on your blackboard site. We track this information through the sign in computer, so it is very important to sign in/out every time you use the MaSH. If you have any questions please contact Alicia Frost or Jessica Kramer (MaSH coordinators).