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Catalog description of course: An introductory course in statistical procedures with applications to business. Topics include descriptive statistics, the binomial and normal distributions, sampling, hypothesis testing, estimation, correlations, contingency tables, analysis of variance and linear regression with bivariate data, and probability: combinations, permutations, basic counting principal, and odds.

Objectives:
1. Define descriptive statistics and concepts of statistical analysis. Define and give examples of various data types.
2. Organize data graphically. Summarize data using measures of central tendency (mean, median, mode, midrange).
3. Calculate the measures of dispersion (standard deviation, variance).
4. Apply the rules of probability and the binomial distribution.
5. Evaluate and convert data to the standard normal score (z-score) for comparison purposes.
6. Interpret linear correlation and linear regression.


TI 83 Graphing Calculator will be used and checked out from instructor and checked back in on the last day of class.

Course Requirements:
4 Exams (100 points each)
3 labs (20 points each)
Assignments (90 points)
Semester Review Packet (50 points)
Total points: 600

Practices concerning Americans with Disabilities, Student Code of conduct and Academic Integrity will follow those outlined in the Doane catalog and student handbook.
**Doane College Academic Integrity Policy:**
The Doane College Academic Integrity Policy will be adhered to in this class. All projects and tests will represent your own work. Any use of others’ ideas and words without proper citation of sources is plagiarism and will result in penalties to be determined by the instructor and/or the dean of undergraduate studies.

**Cooperative Learning is a must.** Students must be able and willing to work with a team or partner on labs and assignments. Time will be allowed in class to accomplish labs and most of the assignments. Students are expected to be respectful, courteous and cooperative.

**Attendance** is strongly recommended but if a class were missed, getting the assignment ahead of time would be better than afterwards. Students must email me if you miss a class.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Lessons and activities</th>
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<tbody>
<tr>
<td>August 22, 2013</td>
<td>Intro/terminology, Reaction time lab</td>
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<tr>
<td>August 29, 2013</td>
<td>Ch. 1 Test, Measures of center and spread</td>
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<td>Random Rectangles Lab, interpreting different types of graphs, standard score (z-score), normal distributions, standard deviation</td>
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<td>September 5, 2013</td>
<td>Mid Ch. 2 Test, Bivariate Data, Linear Correlation, Linear Regression</td>
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<td>September 12, 2013</td>
<td>Rolling Rivers Lab, Rules of Probability, Binomial Distributions</td>
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<td>September 19, 2013</td>
<td>The Standard Normal Distribution</td>
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<td>September 26, 2013</td>
<td>Ch. 4 Test, Applications of normal distributions and confidence intervals</td>
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<td>October 3, 2013</td>
<td>Ch. 6 Test, Semester Review</td>
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<tr>
<td>October 10, 2013</td>
<td>Hand in Semester Review and/or any missing work, check grade, and hand in calculator</td>
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**Grading Scale:**
- 540-600 total points  A
- 480-539 total points  B
- 420-479 total points  C
- 360-419 total points  D
- Below 360             F