**ST260 Syllabus**  
**Second Term, Summer 2004**

Text Book: Weiers, *Business Statistics*. Prior to class lecture, **read** all sections of the text indicated in the syllabus.

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<th>Friday</th>
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<tbody>
<tr>
<td>S1 Introduction, Statistical Thinking, Data Displaying, DO Chp 1 #16, 18 Chp 4 # 6, 12</td>
<td>S2 Graphical Displays, READ 1.1 - 1.7, 2.1 - 2.4, 4.1 - 4.5</td>
<td>S3 More Graphs, Measures of Central Tendency and Variation, READ 2.5, 2.7 3.1 - 3.3</td>
<td>S4 Box Plots, Five Num Summary, READ 3.4 4.6 - 4.8</td>
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<td>S5 Normal Dist, READ 7.1 - 7.3</td>
<td>S6 Normal &amp; Exponential Dist, READ 7.5 - 7.6</td>
<td>S7 Test 1: S1–S6 Tests are 45 minutes; class continues after a test. Expected Value, Risk, &amp; Gambling Strategies</td>
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<td>S8 Binomial &amp; Poisson Distributions, READ 6.1 - 6.5, 7.4</td>
<td>S9 Scatterplots &amp; Regression, READ 2.5, 3.6 - 3.7, 15.1 - 15.2</td>
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<td>S10 Regression &amp; Correlation, READ 15.3 - 15.5</td>
<td>S11 Residuals, Exponential Growth Transformations, READ 15.6 - 15.7</td>
<td>S12 Categorical Data, Basic probability, READ 2.6, 5.1 - 5.4, 5.8</td>
<td>S14 Test 2:S1-S11</td>
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<td>S18 Test 3:S1-S17</td>
<td>S20 Confidence Intervals 8/9 µ1-µ2, p1-p2, READ 11.2, 11.4, 11.6</td>
<td>S21 Decision Making</td>
<td>S22 Course Review A retrospective</td>
<td>S23 EXAMS S1 - S22 See Exam Schedule below Study</td>
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<td>S24</td>
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Comprehensive Final Exam: 8:00 Class, Exam is **Thursday, August 12**, 8:00 to 10:30 PM  
10:00 Class, Exam is **Friday, August 13**, 8:00 to 10:30 AM  
12:00 Class, Exam is **Thursday, August 12**, 2:00 to 4:30 PM
ST 260 SYLLABUS
Statistical Data Analysis
Summer 2004

Instructor:
Jeff Szychowski  319 Bidgood  Sec. 26  8:00
Diane Richardson  319 Bidgood  Sec. 27, 31  10, 12:00
Mike DeVasher  319 Bidgood  Sec. 28, 30  10, 12:00

REQUIRED Materials:
Introduction to Business Statistics, by Ron Weiers.

COURSE DESCRIPTION
Introduction to basic statistical tools and concepts using computer packages for business applications. Graphical procedures and computation techniques are used to illustrate estimation and variation, probability, discrete and continuous probability distributions. Statistical inference is based on confidence interval estimation.

COURSE OBJECTIVES
After successful completion of this course, the student will:
• be able to view decision-making problems from a quantitative perspective.
• understand the importance of data collection and analysis in making business decisions.
• be able to assess technical presentations effectively.
• be proficient with graphical exploration tools for extracting information from data.
• have learned key tools and concepts very well, retain them, and use them in the future.
• see the relevance of statistics in everyday life.
• know when to be skeptical of data results.

PREREQUISITES
a. CS 102 and MA 112, or equivalents.
b. EXCEL skills are essential.

COURSE GRADE
Your minimum course grade will be computed by:

\[
\begin{array}{cccccc}
\text{Weight per test} & T1 & T2 & T3 & \text{Final A/P/Q Total} \\
\text{Degree of Difficulty} & 15\% & 25\% & 30\% & 30\% \\
\hline
\text{Weight per test} & 20\% & 20\% & 25\% & 15\% & 100\%
\end{array}
\]

* Adjust your “Course Total” for “Attendance.”
(See Course Contract below.)
Total >= 90.0 is A-;  Total >= 79.1 is B-;
Total >= 69.2 is C-  Total >= 59.3 is D-.
These “Cut points” may be adjusted downward.
Plus/Minus grade given at the instructors’ discretion.*

Note: The instructor reserves the right to make changes to this syllabus during the semester.
Announcements of changes will be made in class.

EXAMS, ASSIGNMENTS, PROJECTS and QUIZZES
Exams: All Exams are comprehensive. Material will be from lectures, textbook, projects, and homework. On parts of exams, students may use a calculator and computer. A formula sheet will be provided for tests.

Assignments & Projects: Assignments consist of practice problems, computer problems using EXCEL & Minitab, and projects. Selected practice problems may be graded. Students will be asked to put homework solutions on the board. Computer assignments have a high probability of being graded. Group work is strongly encouraged and recommended for assignments.

Quizzes: Short quizzes will be given at random. Quiz questions may be based on reading and homework assignments, lectures, computer problems or projects. Your two lowest quiz grades will be dropped.
No make-up quizzes are given.

MAKE-UPS and OTHER ACCOMMODATIONS
[ ] No make-up exams are given. Should you expect to miss an exam, contact an instructor immediately.
[ ] Students with disabilities: Register with the Office of Disability Services, 348-4285. Then, visit an instructor early in the semester to discuss accommodations and other special needs.

COURSE CONTRACT
[ ] Consider yourself an "employee" of this course. You are expected to show up on all workdays, arrive on time and stay the entire workday (105 minutes). Failure to do so will result in compensation reduction (grade). Late arrival and early departure are 0.5 absence each.
[ ] Attendance Adjustment to your “Course Total:”
Miss ZERO classes, ADD 2 bonus points.
Miss exactly ONE class, ADD 1 bonus point.
Miss THREE or more classes,
DEDUCT “Number of absences -1” bonus points.

[ ] Note. There are NO EXCUSED absences. If you miss three or more days (i.e., two weeks of regular classes) for illness, please discuss your situation with the instructor.
[ ] Prior to class lecture, you are expected to read sections of the text indicated in the syllabus or announced in class. After a lecture, you are expected work all homework problems assigned in that class by the due date.

OUTSIDE OF CLASS ASSISTANCE
[ ] Office hours for will be announced in class and posted on MS Outlook or WebCT.