Classes: Distance Learning  
Instructor: David M Kender  
Office: 202/207/226 Russ Engineering Center  
Office Hours: As posted and by appointment.  
Web Page: www.cs.wright.edu/~dkender

Course Description: Application of statistical analysis techniques including, probability distributions, sampling theory, design of experiments, hypothesis testing and statistical inference, correlation and regression, analysis of variance, process improvement tools, SPC, and computer-assisted data analysis and statistical inference analysis.

Course Objectives: Students will be able to design an experiment and interpret and analyze relevant data using statistical inference methods including hypothesis testing, regression analysis, contingency tables, analysis of variance, statistical process control and surface response methods, using a computer program analysis tool (SAS JMP-In).

Course Requirements and Evaluation: Students are expected to attend and participate in all scheduled classes. Course grades will be based on several criteria including a subjective evaluation of effort, learning, and understanding.


JMP-In Exercises: A series of computer exercises are to be accomplished using the JMP-In analysis software. The exercises consist of interpreting, analyzing, evaluating, reporting on data related to an engineering scenario. Statistical analysis using the JMP-In software package is an important element of the course. In general, students may work as a team (two students per team) using a data set provided by the instructor.

Tests: A mid-term and final exam are scheduled. The tests will be closed-book; however, students are permitted and encouraged to use two pages of student generated notes as well as their calculators. Portions of each test will include JMP-In related material.

Graduate Project: Graduates students are to select a mini-project, please refer to Statistics Mini-Project Topics.

Academic Integrity: The instructor fully endorses the Wright State University policy to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and truth.

Reasonable Accommodations Policy: Any student with a disability that may prevent them from fully demonstrating their abilities should contact me personally as well as the Office of Disability Services as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities.

Grading Criteria: Grades will be awarded as follows.

<table>
<thead>
<tr>
<th>Element</th>
<th>Comments</th>
<th>Proportional Value</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>Assigned but not graded</td>
<td>92 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>JMP-In Exercises</td>
<td>Points vary</td>
<td>10%</td>
<td>B</td>
</tr>
<tr>
<td>Project</td>
<td>One</td>
<td>10%</td>
<td>C</td>
</tr>
<tr>
<td>Tests</td>
<td>Two</td>
<td>80% (40% each)</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 70%</td>
<td>F</td>
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</tbody>
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Note: We use the on-campus schedules as a strawman for the distance learning classes, realizing full well the disparity between the two. There is absolutely no reason that any student should be concerned about late submittals due to the distance/time constraints. However, students must realize that distance learning courses are NOT intended to be self-paced courses; but rather, the distance learning courses are designed to be schedule-paced participatory courses. As such, distance learning students are expected to keep up with the course schedule, by reviewing the DVDs and completing the assignments and exams in a timely manner. In addition, distance learning students will not be graded on homework and quizzes, but only on the course project, exercises, and test scores.