Name: Kent Riggs, Ph.D.
Department: Mathematics and Statistics
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Phone: (936) 468-6263
Office: 350 NM
Office Hours: 9-11 on MWF, or by appointment.
Class meeting time and place: 1-2:15 on MW, Mathematics 204

Course Description:
Two Sample Inference, analysis of variance, regression analysis and nonparametric methods. The course will stress the use of computer packages JMP or R and the interpretation of the outputs.

Program Learning Outcomes:
There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

Student Learning Outcomes:
At the end of STA 322, a student who has studied and learned the material should be able to:

1. Demonstrate understanding of sampling distributions and their role in statistical analysis. [EEO: 3, 5, 6]
2. Recognize experiments designed according to criteria listed in course outline. [EEO: 1, 2, 3]
3. Analyze data sets generated from experiments designed according to criteria listed in course outline with or without the aid of a computer. [EEO: 1, 4, 6]
4. Report results of statistical analysis of data generated from experiments designed as according to criteria listed in course outline. [EEO: 2]

Text and Materials:
Statistical Methods by Freund and Wilson, 2nd edition (NOTE: This text can be freely accessed through the university library website!)

Course Requirements:
Homework, Quizzes, Project(s), and Exams

Course Calendar:
Course outline: Approximate time spent

Review of Probability & Basic Inference 20%
- Probability and Sampling Distributions
- Confidence intervals and hypothesis testing
- Introduction to JMP
- Inferences for a Single Population
- Inferences for two populations

Analysis of Variance 30%
- One way completely randomized design
Grading Policy: The final average will be computed using the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Projects (2 of them)</td>
<td>20%</td>
</tr>
<tr>
<td>Exams (3 of them)</td>
<td>60%</td>
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</tbody>
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Attendance Policy:
Attendance/participation is expected.

Academic Integrity (A-9.1):
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54):
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.
The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

**Students with Disabilities:**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).

**Acceptable Student Behavior**
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1).
Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.