Course Title: Probability and Statistics
Instructor: Jim Gleaton
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Office Hours:  Monday 10:00 am – 12:00 noon,      Wednesday 2:00 pm – 4:00 pm,
                   Friday 10:00 am – 12:00 noon
Prerequisite: Calculus I, II
Text: Mathematical Statistics with Applications, 7th Edition, Wackerly, Mendenhall and Scheaffer. Not the e-book; you will be unable to use the e-book during class. If you purchase the International Edition, be aware that it is somewhat different. The homework assignments will be based on the regular edition. You will be responsible for checking with a fellow student who has the regular edition to make sure that you are doing the homework exercises that are actually assigned.
Calculator: You will need a good calculator, preferably one with good statistical functions (at least means and standard deviations), as well as graphing capability. However, I will not require a specific type of calculator. You are responsible for figuring out the instructions for your particular brand – I can help only with the TI-83 and TI-84.
Tips for Succeeding:
   i) For every hour you spend in the classroom, you should spend at least three hours outside of class (preferably the same day) studying the course material.
   ii) Class attendance is important; history shows that students who do not attend class regularly (every day, unless ill) are more likely to fail.
   iii) Assistance in study skills, as well as tutoring, may be found at the Academic Center for Excellence in Building 2, Room 1200. Here is a link to resources provided by A.C.E.: http://www.unf.edu/ace/tutoring/Additional_Academic_Resources.aspx
   iv) Please note my office hours above. I am available to provide assistance during these hours.

Course Objectives: This course is an introduction to probability and statistics which stresses the mathematical link between the two subjects. Whether your major is mathematics, statistics, computer science, or some other major, it should equip you in these basic ways:

1) understand how probability is used in the simulation of physical and logical systems (specific topics: computation of classical probabilities of equally likely events; conditional probabilities; the parameterization and properties of probability distribution families for discrete and continuous random variables; selecting appropriate probability distribution families for problems);
2) understand the way that the Calculus is used to describe probability (specific topics: computation and use of moment generating functions, calculation and interpretation of probabilities from density functions, and expectations for continuous random variables);
3) understand basic analysis of data, whether collected from simulation results, surveys, or scientific experiments (specific topics: simple descriptive statistics and their relation to population parameters);
4) understand the basics of inferential statistics, including confidence intervals and hypotheses testing.

Tentative List of Topics to be Covered

Chapter 1 – cover all
Chapter 2 – cover all
Chapter 3 – cover 3.1 – 3.5, 3.7 – 3.9; exclude 3.6 and 3.10
Chapter 4 – cover 4.1 – 4.10; exclude 4.11
Chapter 5 – I will summarize some of the most necessary results using handouts rather than use the text.
Chapter 6 – cover 6.1 – 6.3, and 6.5; exclude 6.4, 6.6, 6.7
Chapter 7 – cover 7.1 – 7.3 and 7.5; exclude 7.4
Chapter 8 – cover 8.5 – 8.9
Chapter 10 – cover 10.1 – 10.2, 10.5 – 10.9

Homework: There will be one or two homework assignments per textbook chapter. Students must show their work on homework exercises to receive credit. No late homework will be accepted. Each student’s lowest homework score will be dropped. The homework average will count for 10% of your course grade. Quizzes: Expect a quiz during most weeks. Each quiz will consist of a few problems from the most recent homework assignment. No make-up quizzes will be given for any reason. Each student’s lowest quiz score will be dropped. The quiz average will count for 20% of your course grade. Exams: There will be two exams before the final exam, each counting 20% of your course grade. Make-ups for exams will be given only in extreme circumstances, with a written excuse from a physician, employer, faculty member, university administrator, or other relevant person in authority. Please contact me if you think your situation merits a make-up. The cumulative final exam will count 30% of the course grade.

Grading:

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<th>Activity</th>
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<tr>
<td>Tests</td>
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<td>Final Exam</td>
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<td>Quizzes</td>
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Attendance and Other Policies: You are responsible for attending classes unless you are ill or have an emergency.
Please be courteous to your classmates:
1) Please do not conduct private conversations during the class period; to do so is distracting to your fellow students.
2) If you know that you will need to leave class early one day, please sit in the rear of the room so as not to disturb the class; also, please let me know before class that you will be leaving.
3) Cellphones, pagers, laptop computers, tablets, and other electronic devices (other than calculators) should be turned off during the class period. Please do so before coming to class.

Final Exam: Thursday, April 28, 1:00 pm to 2:50 pm
Important Dates: Monday, January 18 – Martin Luther King Day Holiday (University Closed)
                Monday, March 14 through Friday, March 18 – Spring Break
                Last day to withdraw – Friday, March 25

Students with disabilities who seek reasonable accommodations in the classroom or other aspects of performing their coursework must first register with the UNF Disability Resource Center (DRC) located in Building 10, Room 1201. DRC staff members work with students to obtain required documentation of disability and to identify appropriate accommodations as required by applicable disability laws including the Americans with Disabilities Act (ADA). After receiving all necessary documentation, the DRC staff determines whether a student qualifies for services with the DRC and if so, the accommodations the student will be provided. DRC staff then prepares a letter for the student to provide faculty advising them of approved accommodations. For further information, contact the DRC by phone (904) 620-2769, email (kwebb@unf.edu), or visit the DRC website (http://www.unf.edu/dept/disabled-services).