**FALL 2013 Probability and Statistics (MATH/STAT 352) 3 credits**

WRB 2003, TR 11:00-12:15 PM

**Instructor:** Anna Panorska, **Office:** DMS, Room 222

**Office hours:** T 1-2 pm, Wed 10:30 -12 (noon) + by appt

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**Course info is available on the course web site:** (http://wolfweb.unr.edu/homepage/ania/teaching.html)

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**Intro:** The use of probability models and statistical methods for data analysis has become common practice in virtually all scientific disciplines. This course provides an introduction to the theory and practice of probability and statistics emphasizing their language, essential ideas, and concepts. We will discuss the foundations of probability theory, basic description statistics, graphical representation of data, point and interval estimation, hypothesis testing, correlation and regression analyses. Working with a statistical package MINITAB will give you an opportunity to see how the concepts discussed in the class are applied to the real data sets, and will give you practical knowledge for your careers.


**Required statistical package:** MINITAB – available in the Math Center (WRB 1003) and in the Data Works Lab in the Knowledge Center. MINITAB can also be accessed remotely via Citrix server at www.knowledgecenter.unr.edu/dataworks/citrixinfo.html with your Net ID.

**Required scientific calculator:** Any calculator that will add, subtract, multiply, divide, compute factorials, raise numbers to powers, AND THAT YOU KNOW HOW TO USE is required for the course. You do not need built-in statistical functions. PDAs, cell phones, etc., are prohibited on all exams including the final.

**Tentative list of topics:** Probability experiments, random events, sample spaces, random variables, discrete and continuous distributions (including Bernoulli, Binomial, Poisson and Normal), quantitative measures of location and variability, exploratory data analysis, statistical plots, point and interval estimation, hypothesis testing, correlation analysis, linear regression

**Grading:** Your letter grade is determined by the score accumulated during semester:

<table>
<thead>
<tr>
<th>Letter</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Score</td>
<td>90%</td>
<td>87%</td>
<td>85%</td>
<td>80%</td>
<td>77%</td>
<td>75%</td>
<td>70%</td>
<td>67%</td>
<td>65%</td>
<td>60%</td>
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**How to calculate the score:**

- **Before Tuesday, Dec 10** the score is calculated as follows:

  **HW - 10%; Midterms -75% (=3x25%); Quizzes 15%**

On Tuesday, Dec 10 you will get a “grade before final” from the Instructor. You will have an opportunity of accepting this grade and skipping the final. In this case, your grade for the course will be determined by your score as of Dec 10. This will be a one-time opportunity. You must be present in class on Dec 10 and sign an appropriate document to get this opportunity.

If you decide to take the final, your score will be calculated **after the final** as described below and **only** that new score will be used to determine your course grade. You **may not** go to final and then request to use your pre-final (Dec 10) score.

- **After the final**, the score is calculated as follows:

  **HW - 10%; Midterms - 60% (=3x20%); Final - 20%; Quizzes -10%**
**Midterms:** There will be 3 midterms scheduled tentatively on **Thursday, Sep 26, Oct 24, and Friday, Dec 6.**

**Final exam (comprehensive)** will be given on **Thursday, Dec 12, 8 – 10 am.**

**Exam policy (for midterms and final):** You will be allowed one 8.5x11in page of handwritten (on both sides) notes for each midterm and three such pages for the final exam. Calculator is required on exams. There will be no make-ups for exams, except legitimate and documented medical reasons. Students participating in official school activities that will interfere with exams have to make arrangements with the instructor at least two weeks prior to the exam in question.

**Homeworks will** consist of solving textbook problems and/or MINITAB computing assignments. It will be given and graded weekly. To get the full HW credit, the assignments are due at your discussion section each week. A late homework results in zero score. E-mails with HW will **not** be accepted.

**Quizzes:** There will be weekly quizzes given at the recitation sections. There will be no make-up or early quizzes. Instead, I will drop two lowest quiz scores.

**Recitation attendance** is required. All quizzes will be given during the recitations.

**Lecture attendance** is strongly suggested but not required. It is your responsibility to know the material covered and announcements made in class.

**Re-grading:** If you found that your grade for exam or HW is incorrect, contact instructor at the office hours with a rational justification. All such requests must be submitted to instructor within one week after a grade is announced; late requests will not be granted. The final decision about new grade is made by the instructor. Please understand that everyone can make a mistake, and that mistake can be both ways: higher or lower than deserved grade.

**Course Web site** will be maintained at http://wolfweb.unr.edu/homepage/ania/teaching.html

It will show the course progress, post home work assignments and important announcements. You are responsible for being familiar with the site content and required to check the email you listed on MyNevada, which will be used for communication between instructor and students. It will **not be possible** to request instructor to contact you at an alternative e-mail.

**Prerequisites:** two semesters of calculus (math 181 and math 182).

**General Rules:** All students in this class are expected to respect each other and the instructor. Any form of disruption or disrespect to other students or to the instructor will not be tolerated. Please be on time. All electronic devices have to be turned off (not just set to vibrate) before you enter the class and stay off until you leave the class. **If found talking, reading, texting, eating in the class, you will be asked to leave.**

**Academic Dishonesty:** Cases of academic dishonesty are viewed as a serious violation of the student code of conduct. Examples of academic dishonesty include, but are not limited to: (1) Copying homework assignments, (2) Cheating on quizzes or exams including sharing answers with students in other sections of the course, (3) Including information in written assignments without proper citations.

Any incidents of any type of academic dishonesty will result in a student receiving an F for the course. See the "Student Conduct Information" section of the UNR General Catalog for specific University policies and procedures regarding academic dishonesty.

**Important dates:** **Thursday, Sep 5:** Late registration ends and it is the final date to receive a 100% refund if dropping individual classes or completely withdrawing from the university. **Wed, October 30:** Final date to drop a class and receive a 'W'.

**Equal Opportunity Statement:** The Department of Mathematics and Statistics supports providing equal access for students with disabilities. Any student needing accommodations for a specific disability is encouraged to meet with instructor or any Department representative at your earliest convenience to ensure timely and appropriate accommodations.