

# STAT 111: Understanding Statistics

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<b>Course:</b>	STAT 111	<b>Instructor:</b>	Doug Raffle
<b>Section:</b>	001	<b>Office:</b>	423 Stansbury Hall
<b>Semester:</b>	Summer 2015	<b>Office Hours:</b>	MTWH 1:30-3:00pm or by Appointment
<b>Lecture Room:</b>	HOD-D 259	<b>Email:</b>	dcraffle@mix.wvu.edu
<b>Lab Room:</b>	EIS G33	<b>Website:</b>	stat.wvu.edu/~draffle/
<b>Meeting Time:</b>	MWTHF 12:00pm - 1:15pm		

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**Course Description:** Introduction to basic concepts and ideas of statistics. Methodologies and case studies to prepare students to understand the use of statistics in the mass media and professional publications in their major field of study.

**Learning Outcomes:** At the end of this course, students will be able to

1. Use graphical and numerical summaries to describe data.
2. Investigate relationships between variables.
3. Compare and contrast different types of studies.
4. Use probability to account for randomness and uncertainty.
5. Perform and interpret statistical tests used to study populations.
6. Compare groups using statistical tests.

## Required Text

**Title:** *Intro Stats*  
**Author:** Richard D. De Veaux, Paul F. Velleman, David E. Bock  
**Edition:** 4th  
**Publisher:** Pearson  
**Note:** An electronic version of this text is included with MyStatLab.

**Required Materials:** Students must have access to a copy of the required text and a MyStatLab account. Access codes can be purchased from the bookstore or directly from Pearson at MyStatLab.com. Students also have the option to get started with free temporary access, but a key must be purchased within 17 days.

**Required Technology:** Students must have a modern web browser compatible with Pearson's MyStatLab. Use the browser check tool to verify compatibility.

**Lab Sessions** On Fridays, the class will meet in Eiesland G33 for a laboratory session. These labs will give students the chance to get hands-on experience working with data.

**Grading Policies:** Final letter grades are based on the total number of points earned out of a possible 400 as follows:

A: 360–400 points  
B: 320–359 points  
C: 280–319 points  
D: 240–279 points  
F: < 239 points

**Course Assessments:** Points earned towards the final total are based on a final exam, homework assignments, quizzes, and lab assignments.

Assessment	Points	
	Each	Total
Assignments (10)	10	100
Quizzes (5)	20	100
Lab Assignments (5)	20	100
Final Exam		100
<b>Grand Total</b>		<b>400</b>

### Assessment Details:

1. **Assignments** will require students to implement and discuss the techniques presented in this course. All homework assignments are assigned through MyStatLab. There will be a total of twelve homeworks assigned (two per week) and students will be graded on the best ten.
2. **Quizzes:** At least six quizzes will be given throughout the course of the session (typically at the start of lab sessions). Students will be evaluated on the best five.
3. **Labs Assignments:** Lab assignments will be require students to analyze real data sets and summarize the results of these analyses. Lab assignments need to be completed during the lab session to receive credit unless otherwise specified. At least six lab assignments will be given and students graded on the best five.
4. **Final Exam:** At the end of the session a comprehensive final exam will be given to assess students' mastery of topics covered.

**Course Schedule:** Assignments will become available in MyStatLab as topics are covered. The schedule on my website will also be constantly updated.

**Attendance/Make-up Policy:** Attendance will not be taken, but poor lecture attendance in this course nearly always results in low grades. Make-ups will not be given for missed lab assignments or quizzes. If you need to miss a lab for any reason, the missed assignment and quiz will count as your drops.

**Academic Integrity:** The integrity of the classes offered by any academic institution solidifies the foundation of its mission and cannot be sacrificed to expediency, ignorance, or blatant fraud. Therefore, I will enforce rigorous standards of academic integrity in all aspects and assignments of this course. For the detailed policy of West Virginia University regarding the definitions of acts considered to fall under academic dishonesty and possible ensuing sanctions, please see the Student Conduct Code at <http://studentlife.wvu.edu/studentconductcode.html>. Should you have any questions about possibly improper research citations or references, or any other activity that may be interpreted as an attempt at academic dishonesty, please see me before the assignment is due to discuss the matter.

**Inclusivity Statement:** The West Virginia University community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion. If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise me and make appropriate arrangements with the Office of Accessibility Services (293-6700). For more information on West Virginia Universitys Diversity, Equity, and Inclusion initiatives, please see <http://diversity.wvu.edu>.

**Support Services** Students can obtain academic and technical support at the following links:

- WVU Student Support Services <http://sss.wvu.edu/>
- WVU Library <http://libraries.wvu.edu>
- Blackboard Accessibility <http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx>
- WVU Academic Catalog <http://catalog.wvu.edu/>
- WVU Accessibility Services <http://accessibilityservices.wvu.edu/>
- WVU Computer Security <http://it.wvu.edu/security>