

# STAT 301: Introductory Probability and Applied Statistics

## Summer 2017

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Office Hours: MTWThF 9 – 10:30, or by appointment or capture

### Course Web Site

We will be using Blackboard® for the course homepage. Class notes, HW assignments, and announcements will be posted there (some announcements will also be sent to your WKU e-mail). Students should obtain notes and assignments from this site prior to class each day.

### Description

Prerequisite: MATH 136 or MATH 132. A calculus based introduction to applied statistics, with emphasis on analysis of real data. Curve fitting, probability models, estimation and testing for means and proportions, quality control; use of computers for data analysis and simulation.

### Learning Outcomes

- Interpret information presented in mathematical and/or statistical forms.
- Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.
- Determine when computations are needed and execute the appropriate computations.
- Apply an appropriate model to the problem to be solved.
- Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

### Textbook or E-Textbook

Montgomery & Runger (2013). *Applied Statistics and Probability for Engineers*, 6<sup>th</sup> edition, Wiley.

### Technology

Each student will need a graphing calculator for use in class and for assignments. TI-83 Plus, TI-84, and TI-89 are preferred. Cell phone calculators are *not* permitted for use on exams!

### Academic Dishonesty

“Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected or a failing grade in the course without possibility of withdrawal.”

### Cell Phones

Cell phones should be turned off or set to silent during class. A cell phone ringing during class is considered disruptive behavior, and punitive action may be taken against students who fail to comply with this request. Cell phones should also remain closed during class. If you are seen using your phone during class (for text messaging or otherwise), you will be asked to leave for the remainder of the class period.

### Attendance

Attendance will be recorded each day, and regular attendance is expected. Attendance is used to help determine “borderline grades” at the end of the semester. For this class, absence from *more than 3* classes (**whether excused or unexcused**) will be considered excessive, and a borderline grade will **NEVER** be bumped up. The instructor will note students who arrive excessively late or leave excessively early; such instances will be counted as an absence.

## Student Accessibility Resource Center

In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the student accessibility resource center in DSU 1074. Please DO NOT request accommodations directly from the instructor without a letter of accommodation from the Student Accessibility Resource Center.

## Graded Work

- **Exams** (100 points each) Three in-class exams will be given during the course of the semester (most likely one in 2<sup>nd</sup> week, 3<sup>rd</sup> week, and 4<sup>th</sup> week). The exact dates will be announced several days in advance of the exam. Make-up exams will be considered only in extreme (and excused) circumstances. Contact me *before* the exam if you feel that your situation merits a make-up.
- **Quizzes** (100 points) Practice exercise will be posted on BB. Quizzes will be based very closely on practice exercise and examples in class. The exact dates will be announced in class. *No make-ups will be allowed except for students going on a school trip* (please contact me before the trip to arrange make-ups). The ten highest quizzes will be counted towards your grade.
- **Final Exam** (200 points) A comprehensive final exam will be given on **Friday, July 7 at 10:30AM**.

**Thus there is a total of 600 points for the class.**

## Grading Scale

90% - 100% A  
80% - 89% B  
70% - 79% C  
60% - 69% D  
0% - 59% F

## Important Dates

June 7: Last day to drop without a grade

June 20: Last day to drop with a W, last day to change a class from credit to audit

## General Statement

“...this thing we call failure is not the falling down, but the staying down.” – Mary Pickford

“Ask why until you understand.” – Cynthia Copeland Lewis

This class will contain material that builds on previous material covered, so DO NOT FALL BEHIND! If you miss a class, get the notes immediately. Understanding problems that I work in class and being able to work problems on your own are two completely different things. If you do not do the homework, you will find the exams very difficult. If you are having trouble with a topic covered, come see me as soon as problems arise (i.e., not the day before the exam). Office hours are for you, so do not hesitate to come see me (or make an appointment).

**Remark: Instructor reserves the right to change the content of the syllabus. All changes will be announced in class.**