

STAT 301: INTRODUCTORY PROBABILITY AND APPLIED STATISTICS

SECTION A01

SUMMER 2015

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Office Hours: MTWRF 9:00 AM – 10:00 AM
or by appointment or capture

CLASS MEETINGS

MTWRF 10:30 AM to 12:10 PM in COHH 3123

COURSE WEB SITE

We will be using Blackboard® for the course homepage. Class notes, 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. Information about Blackboard® and other campus computing resources can be found at <http://www.wku.edu/infotech>.

DESCRIPTION

Prerequisite: MATH 136 or MATH 142 with a grade of "C" or better. 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

This course promotes quantitative critical thinking skills that should serve the student in the rest of their course of studies at WKU and beyond. Specific outcomes that should prove valuable include the ability to:

- 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.

OPTIONAL TEXTBOOK

Montgomery and Runger (2014). *Applied Statistics and Probability for Engineers* (6th Edition). Hoboken, NJ: Wiley.

- The textbook for this course is not required (in any form).
- Electronic access to the textbook may be purchased for \$71.50 via
<http://www.wiley.com/WileyCDA/countryConfirm?originalUrl=%2Fmarketbasket.cgi%3Fschoolchooser%26isbn%3D111880225X>

TECHNOLOGY

Each student will need a graphing calculator for use in class and for assignments. TI-83, TI-84, and TI-89 are preferred, and instruction for these models will be given. Cell phone calculators are *not* permitted! Statistical computing packages may also be used.

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." *Individual* work is required on all quizzes and exams.

(See http://www.wku.edu/undergraduatecatalog/documents/ugrad_14_15_files/academic_information.pdf.)

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 run the risk of losing 1 point of credit on the next exam for each occurrence.

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. The WKU University Attendance Policy (web version at http://www.wku.edu/undergraduatecatalog/documents/ugrad_14_15_files/academic_information.pdf) states the following in regard to attendance: "Excessive absenteeism may result in the instructor's dismissing the student from the class and recording a failing grade, unless the student officially withdraws from the class before the withdrawal deadline." For this class, absence from *more than 2* 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 (FORMERLY OFFICE FOR STUDENT DISABILITY SERVICES)

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in DSU 1074. Contact them via phone at 270-745-5004 [270-745-5121 V/TDD] or email at sarc@wku.edu. Please do not request accommodations directly from the professor without a letter of accommodation (LOA) from the Student Accessibility Resource Center.

GRADED WORK

- **Exams** (20% each) Three in-class exams will be given during the course of the semester. The dates of the exam are Tuesday June 16, Thursday June 25, and Monday July 6. 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** (20%) Ten-minute quizzes will be given at the **start** of every class period (except on exam days). Quizzes will cover the material (both conceptual and computational) that was presented in class on the previous day. After each class, practice problems over that day's material will be posted. It is strongly suggested that you work through these problems each day. You will not be allowed to use your notes or the textbook for these quizzes. However, the necessary formulas will be provided. **Make-up quizzes are not allowed**; if you miss a quiz (due to absence, tardiness, etc.), you will receive a 0. Your four lowest quiz grades will be dropped.
- **Final Exam** (20%) A comprehensive final exam will be given on **Friday, July 10 at 10:30 AM**.

GRADING SCALE

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

IMPORTANT DATES

June 10: Last day to add/drop classes

July 3: No class (in observance of Independence Day)

June 24: Last day to drop a class with a W (withdrawal); last day to change a class from credit to audit

E-MAIL ETIQUETTE

E-mail will generally be the best way to contact me. During normal business hours, I usually respond to e-mail fairly quickly (unless I am in a meeting/class/etc.). Please keep in mind that I am not as quick to respond to e-mail in the evenings or during the weekends/holidays. Please consider e-mail as a method of **professional** correspondence. Thus, you should do your best to use correct grammar, punctuation, and capitalization.

GENERAL STATEMENT

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).