

Vincent DeGeorge, PhD vdegeorge@wju.edu

Office: DON 104

Lecture: TR 8:00-9:15 AM (75min), ASC 213

Office Hours: W 5:00—7:50 PM; or by appointment

Final: Thur., May 2, 8:00 - 10:30AM

Add/Drop: Friday, 1/11/18

Withdraw: Tuesday, 3/26/18

Catalog Course Description: Descriptive statistics including measures of central tendency and variability, graphic representation, probability, the binomial, normal and T distributions, hypothesis testing and linear regression. *Prerequisite:* MAT 101 or equivalent.

Text: "Introduction to the Practice of Statistics"; David S. Moore, George O. McCabe; ISBN: 0-7167-6400-8

Student Learning Objectives: The goal of this class is to learn fundamental statistical thinking. A successful student in this course will be able to...

1. Understand the basic statistical methods (low).
2. Use different graphical methods to interpret the data (medium).
3. Learn the applications of probability and its different types of distributions (high).
4. Analyze the data using various hypothesis tests (high).
5. Determine the appropriate techniques to solve problems (high).

Tentative Outline:

Wk 1: Stemplots, Histograms

Wk 2: Five-number summary

Wk 3: Standard Deviation, and Z-score

Wk4: Exam 1

Wk5: Scatter Plots

Wk6: Correlation, Regression lines

Wk7: Exam 2

Wk8: Probability

Wk9: Probability

Wk10: Exam 3

Wk11: Hypothesis testing

Wk12: t-test

Wk13: chi-squared test

Wk14: Exam

Evaluation Methods: Your grade will be based on the following:

Exam 1	15%	Exam 2	15%
Exam 3	15%	Exam 4	15%
HW & Quizzes	15%	Final Exam	20%
Professionalism	5%		

Exam grades can be counted as homework grade, and the final exam (cumulative) can be counted as your final grade. E.g. If your exam or final exam grades are higher than any of your homework or exam grades, respectively.

Homework: Homework sets will be assigned weekly to cover the material covered that week and are due to be handed-in the following week. Students will have the opportunity to do a problem from the homework set on the board for the class, having already confirmed the solution with the professor, and receive 100% for that problem.

Exams: Exams will evaluate your understanding of the course material.

Grading Scale: Your grade should be an indicator of your understanding of the course material.

The following scale will guide our grading:

93.0-100.0 %	A	77.0-79.9 %	C+
90.0-92.9 %	A-	70.0-76.9 %	C
87.0-89.9 %	B+	67.0-69.9 %	C
83.0-86.9 %	B	64.0-66.9 %	D+
80.0-82.9 %	B-	55.0-63.9 %	D

Professionalism: (Attendance, Cheating, Cell Phone/Screens, Eating, Dress, etc.)

I'll treat you as adults; act professionally accordingly. If you are doing something unprofessional, e.g. distracting or inappropriate, to yourself or especially others it will be addressed accordingly. You'll be evaluated on this for the rest of your life, and graded on it in this course.

Academic Honesty: When you cheat you are devaluing the the educational experience of yourself, your classmates, your teachers, and Wheeling Jesuit University and depriving yourself and anyone you are cheating with, including off of you, of the opportunity to learn. You will be subjected to WJU's student policies accordingly, and are setting yourself up for every failure in which a dishonest life results.

Attendance: Come to class. You are paying more money than you have paid for anything else in your life for this education. I support students' being involved in all the things in which WJU students are involved. And I support learning Math & Science. Talk to me about how to do both(all) of these things. Note: You will not get less busy in life, start managing what you're doing well now.

Learning Ability, Title IX, & Resources:

I and Wheeling Jesuit University support (with resources) the education of all people now matter how easy or hard that may be for someone due to internal (learning ability) or external (unfair treatment) reasons.

Learning Ability: A lot of people discover their mental health situation, including learning abilities, in college and I support coming to know ourselves like this. Some of the people I respect most I do so because of how they live given their mental health state. If your learning ability or mental health situation is different than others know that I respect you too and thank you for being at WJU and in my class. Feel free to talk to our "Disability Services Director," Kathy Tagg (ktagg@wju.edu, 304-243-4484) and let me know how I can best help you learn.

Title IX: The world and WJU is not yet free of unfair treatment (discrimination, bias, harassment, abuse), but I and WJU are committed to trying our best to prevent it and to respond to it accordingly when it is practiced. Some of the people I respect most I do so because of how they live given their experience with unfair treatment. If your experience is or has been unfair know that I respect you too and thank you for being at WJU and in my class. Feel free to talk to our Title IX coordinators: David Hacker, Carrie Hanna, MaryLu Adams (dhacker@wju.edu, channa@wju.edu, mladams@wju.edu). <http://wju.edu/titleix/>

Resources: You have more resources - for tutoring, mental health, advocacy - freely available to you now while you are in college than you probably will for the rest of your life. Use them. [ARC](#)

Nothing in this or any other class is more important than your mental, physical, or spiritual health.

I want to help you learn, let me know how I can best do this.