



SYLLABUS

Course Title	Statistics
Course Number	BUS 215
Number of Credits	3 semester credits
Course Dates	1/13/20 - 3/7/20
Instructor	David Grothen
Email Address	david.grothen@doane.edu
Office Hours/Availability	Contact by phone, text, or email
Phone Number	402-560-0752
Textbook Information: (e.g. title, edition, publisher, ISBN)	Even You Can Learn Statistics and Analytics 3rd Edition Authors: Levine and Stephan Publisher: Pearson ISBN: 0-13-338266-4
Additional Course Materials	none
*** NOTE ***	I will be out of town the first week of the Winter I term. Therefore, we will be having class during the 9th week.

Course Description	An introductory course in statistical procedures with applications to business. Topics include descriptive statistics, the binomial and normal distributions, sampling, hypothesis testing, estimation, correlations, contingency tables, one-way analysis of variance and linear regressions.
Program Outcomes	<ul style="list-style-type: none"> a. Develop and use analytical and creative thinking skills to gather and analyze information, to identify and solve problems, to determine potential outcome alternatives, and to make appropriate decisions b. Gain knowledge and understanding of the ethical and legal issues involved in business c. Gain knowledge and understanding of the various components of a business enterprise and the interrelationship of those components d. Gain knowledge and understanding of the nature of change and develop a willingness to anticipate, adapt, and respond effectively to change e. Obtain an understanding of the value of diversity
Course Learning Outcomes/Objectives	<p>Upon completion of this class, students will be able to:</p> <ul style="list-style-type: none"> 1) collect a data set, identify the sampling method used, and recognize potential bias, 2) describe a dataset with tabular, graphical, and numerical methods, 3) test various hypothesis and construct confidence intervals, 4) scrutinize and interpret results and draw meaningful conclusions, and 5) present your data and results in a way that is concise, visually appealing, and provides information to the reader.
Course Prerequisites	Prerequisite: Sophomore standing or above.
Instructional Details	(Details on the instructional approaches to be used in the course. Example: <i>This course will use a combination of lecture, large class discussion, and small group conversations for the development of course topics and themes.</i>)
Technology Requirements	A scientific calculator is recommended

Course Schedule

Week or Module	Topic	Content	Assessments Matched to Learning Outcomes	Due Date & Time
Session 1	Introduction Vocabulary Sampling	Chapter 1 Handouts	Homework over Types of variables	Due at the beginning of class, week 2 class
Session 2	Displaying Data	Handouts	Homework from data gathering in class Quiz over session 1 material	Quiz completed in class, homework due at the beginning of week 3 class.
Session 3	Measures of Center and Measures of Dispersion	Handouts	Homework over material covered in class Quiz over session 2 material	Quiz completed in class, homework due at the beginning of week 4 class.
Session 4	The Normal Curve and Probability	Handouts	Homework over material covered in class Quiz over session 3 material	Quiz completed in class, homework due at the beginning of week 5 class.
Session 5	Z-Scores and Probability using the Normal Curve	Handouts	Homework over material covered in class	Quiz completed in class, homework due at the

			Quiz over session 4 material	beginning of week 6 class.
Session 6	Confidence Intervals and t-tests	Handouts	Homework over material covered in class Quiz over session 5 material	Quiz completed in class, homework due at the beginning of week 7 class.
Session 7	Hypothesis Testing	Handouts	Homework over material covered in class Quiz over session 6 material	Quiz completed in class, homework and Project due at the beginning of week 8 class.
Session 8	Correlation	Handouts	Quiz over Session 7 material Homework and project handed in.	

Grading Assessments

Type of Assessment	Points	Total possible points
Homework Assignments	Each homework assignment is graded on a 100% scale	Homework average is 25% of the final grade
Quizzes	Each quiz is graded on a 100% scale	Quiz average is 50% of the final grade

Project	The project is 100%	The project is 25% of the final grade

- **Grade Scale**

- A+ = 97-100% A = 94-96% A- = 90-93% B+ = 87-89% B = 84-86% B- = 80-83%
- C+ = 77-79% C = 74-76% C- = 70-73% D+ = 67-69% D = 64-66% D- = 60-63%
- F= 59% or below

Participation Policy	<p>A student is expected to be prompt and regularly attend on-ground classes in their entirety. Regular engagement is expected for on-line courses. Participation in class discussions is an integral part of your grade.</p> <p>Missing 3 classes will result in a failing grade.</p>
Study Time	<p>Expectation of the amount of time the course requires students to spend preparing and completing assignments. Typically, students could expect to spend approximately 12 hours a week preparing for and actively participating in this 8-week 3 credit hour course. This actual time for study varies depending on students' backgrounds.</p>
Late Work	<p>Please consult with the instructor for completion of latework</p>
Submitting Assignments	<p>Handed in at class</p>
Communication Policy including Assignment Feedback	<p>Quizzes and Assignments will be graded and handed back at the next class session</p>
Academic Integrity Policy	<p>Doane University expects and requires all its students to act with honesty and integrity and respect the rights of others in carrying out all academic assignments. Academic dishonesty, the act of knowingly and willingly attempting or assisting others to gain academic success by dishonest means, is defined in four categories:</p> <p>1. Cheating - "Intentionally using or attempting to use unauthorized</p>

	<p>information or study aids in an academic exercise."</p> <p>2. Fabrication - "Intentional and unauthorized falsification of invention or any information or citation in an academic exercise."</p> <p>3. Facilitating Academic Dishonesty - "Intentionally or knowingly helping or attempting to help another to commit an act of dishonesty," and/or coercing others to do the same.</p> <p>4. Plagiarism - "Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise," in both oral and written projects.</p> <p>Gehring, D., Nuss, E.M., & Pavela, G. (1986). Issues and perspectives on academic integrity. Columbus, OH: National Association of Student Personnel Administrators</p> <p>For more information on the sanctions for academic dishonesty, please visit the website: https://catalog.doane.edu/content.php?catoid=16&navoid=1333</p>
Academic Support	<p>Please contact academicsupport@doane.edu https://www.doane.edu/graduate-and-adult/academic-support</p>
Disability Services	<p>https://www.doane.edu/disability-services Doane University supports reasonable accommodations to allow participation by individuals with disabilities. Any request for accommodation must be initiated by the student as soon as possible. Each student receiving accommodations is responsible for his or her educational and personal needs while enrolled at Doane University.</p>
Military Services	<p>https://www.doane.edu/graduate-and-adult/military</p>
Anti-Harassment Policy	<p>http://catalog.doane.edu/content.php?catoid=5&navoid=452</p>
Grade Appeal Process	<p>http://catalog.doane.edu/content.php?catoid=5&navoid=238</p>
Credit Hour Definition	<p>Doane University follows the federal guideline defining a credit hour as one hour (50 minutes) of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks (one semester), or the equivalent amount of work over a different time period (e.g., an 8-week term). This definition applies to courses regardless of delivery format, and thus includes in-person, online, and hybrid courses (combination of in-person and online). It also applies to internship, laboratory, performance, practicum, research, student teaching, and studio courses, among other contexts.</p>

Syllabus Changes	Circumstances may occur which require adjustments to the syllabus. Changes will be made public at the earliest possible time.
Doane Syllabus Addendum	Each student is responsible for being aware of the policies, resources, and expectations as specified in the Doane Syllabus Addendum located at https://www.doane.edu/Syllabus .