



STA 210

Introduction to Business Statistics

Semester: Winter 2018
 Days: Tue, Thu, 4:00 PM-5:15 PM
 Room: A2141
 Lab – day: Mon, 4:00 PM-5:15 PM
 Lab–Room: A2141

Number of credits: 3

Prerequisite:
 Math 30-1 or Math 30-2

Instructor: John Wiest
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 Phone: 403-410-6915
 Office: L2115
 Office hours: Tu, Th: 3:00 PM or by drop in

Course Description:

This course is designed to give students a basic understanding of descriptive and inferential statistics. Emphasis is placed on practical application and students will learn to analyze and interpret basic statistical research. Topics include collection and presentation of data, descriptive statistics, introduction to probability theory, estimation, hypothesis testing, correlation, and linear regression.

Further Course Information:

The course consists of 2½ hours of lecture and 1¼ hours of lab/tutorial per week. The course will include four assignments, a Midterm, and a Final Exam.

Expected Learning Outcomes:

It is the aim of the course that students acquire the following skills:

1. Ability to apply common types of statistical analysis to problem solving situations
2. Ability to interpret the results of statistical situations and describe these solutions appropriately.
3. Ability to choose appropriate statistical techniques based on a problem situation..

Important Dates:

First day of classes: January 04, 2018
 Last day to add/drop or change to audit: January 14, 2017
 Last day to request revised examination: March 05, 2018
 Last day to withdraw from course without academic penalty: March 16, 2018
 Last day to apply for time extension for coursework: March 26, 2018
 Last day of classes: April 11, 2018

Final Exam: Wed, April 18, 2018
Time: 1:00 PM – 4:00 PM
Room: A2133

Outline:

Descriptive Statistics

1. What is Statistics? (Chapter 1)
2. Organizing and Displaying Data.(Chapter 2)
3. Measures of Central Tendency and Dispersion.(Chapter 2)

Inferential Statistics

1. Probability and Probability Distributions (Chapters 3 and 4)
2. The Normal Distribution (Chapter 6)
3. The Central Limit Theorem (Chapter 7)
4. Confidence Intervals (Chapter 8)
5. Hypothesis Tests (Chapters 9, 10, and 12)
6. Correlation and Linear Regression (Chapter 13)

Requirements:

All students should have a hand-held, non-programmable calculator capable of performing statistical functions (i.e. able to input a data set and compute mean, standard deviation, etc.). Calculators on smartphones or tablets will not be allowed during tests.

Submission of Assignments:

Assignments will be posted to the course Moodle Page and be due on dates that will be determined as the semester progresses. These assignments should be completed as much as possible on the pages of the assignment, answered clearly, by hand, showing work and explaining thinking as clearly as possible. Assignments should be submitted on paper, and should be stapled together before being handed in.

Attendance:

Students are expected to attend all lectures and labs to ensure success on exams, and quizzes. Students not attending lectures may find themselves missing information not covered in the textbook. Any student who is absent for an exam or misses an assignment due date should speak to the professor and, where possible, provide a doctor's note.

Evaluation:

Assignments	35%
Midterm Exam	30%
Final Exam	35%

During both the midterm and final exams, students will be allowed a page of handwritten, self-created notes. This formula sheet should contain any formulas the student feels they will need during the exams, as well as any comments they feel may assist them. Again, this sheet should be created by the students themselves to assist them both in studying and learning materials, and to assist them during the exams.

Grade Summary:

The available letters for course grades are as follows:

Letter Grade	Percentage	Description
A+	96-100%	
A	91-95%	Excellent
A-	87-90%	
B+	83-86%	
B	79-82%	Good
B-	73-78%	
C+	69-72%	
C	64-68%	Satisfactory
C-	59-63%	
D+	55%-58%	
D	50-54%	Minimal Pass
F	Below 50%	Failure

Textbooks:

Introductory Business Statistics, Holmes, Illowsky, & Dean, <https://openstax.org/details/books/introductory-business-statistics>

Policies:

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (Cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, it is highly recommended that they forward all messages from the Ambrose account to the other account.

During the **Registration Revision Period** students may to enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty. These courses will not appear on the student's transcript. Courses should be added or dropped on the student portal by the deadline date, please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a Request to Withdraw from a Course by the **Withdrawal Deadline**, please consult the List of Important Dates. Withdrawal from courses after the Registration Revision period will not be eligible for tuition refund. A grade of "W" will appear on the student's transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

Students, who find a conflict in their exam schedule must submit a **Revised Examination** Request form to the Registrar's Office by the deadline date, please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to engage in electronically-enabled activities unrelated to the class during a class session. Please turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Please do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. The professor has the right to disallow the student to use a laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. Personal information, that is information about an individual that may be used to identify that individual, may be collected as a requirement as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a “**Course Extension**” from the Registrar’s Office. Requests for course extensions or alternative examination time must be submitted to the Registrar’s Office by the deadline date, please consult the List of Important Dates. Course extensions are only granted for serious issues that arise “due to circumstances beyond the student’s control”.

Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Office of the Registrar in writing within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal to review final grades. If the appeal is sustained, the fee will be refunded.

Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University College as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else’s ideas, words, or work as one’s own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to give credit to another person’s ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student’s permanent record.

Students are strongly advised to retain this syllabus for their records.

Other Important Dates

- Jan. 25 Program Day (No classes)
- Feb. 19 Family Day (No classes)
- Feb. 20-23 Mid-Semester Break (No Classes)
- Feb. 26 *Midterm Exam***
- Mar. 30 Good Friday (No classes)
- April 2 Easter Monday (No classes)
- April 4 Ambrose Research Conference