STP 226: Elements of Statistics

Overview

Statistics are all around us, from weather forecasts, opinion polls, and school ratings to insurance pricing and the stock market. This course is designed to provide learners with a solid foundation in statistical concepts and techniques with a particular emphasis on their real-world applications. The course will cover the basics of descriptive and inferential statistics to prepare learners to use statistics in various fields, including business, science, and social sciences. Throughout the course, learners will have the opportunity to apply their newfound knowledge to a variety of real-world problems. By the end of the course, learners will be equipped to use statistics to make informed decisions, test hypotheses, and draw meaningful conclusions from data. The course is designed for students with little or no prior experience in statistics. It is suitable for students from a wide range of disciplines interested in learning how to apply statistical concepts and techniques in real-world settings.

What You'll Learn

- Analyze problems with descriptive and inferential statistics
- Perform statistical analyses with the appropriate software
- Evaluate scientific claims based on available data

How to Succeed

To be successful in this course, we recommend English language fluency and computer literacy. We also encourage you to make sure your laptop or desktop computer meets the technical requirements.

Either MAT 117 College Algebra or MAT 142 College Mathematics are strongly suggested as a prerequisite for success in this course.

Earn College Credit

This course appears on your transcript identically to how it appears on the transcript of an enrolled ASU student.

This course satisfies 3 credit hours toward the Computer/Statistics/Quantitative Applications (CS) General Studies requirement at Arizona State University. It is strongly encouraged that you consult with your institution of choice to determine how these credits will be applied.

In order to receive academic credit for this course, you must earn a grade of "C" or better. You have one year to add the course to your transcript.

Exams and Grading

20%
Practice Quizzes

80%
Module Exams

Time Commitment

This is an asynchronous, online course. This means, while you will have deadlines, you do not need to be at your computer at specific times or participate in live activities.

To be successful in this class, you must view all course pages and complete all graded work by the deadlines indicated. Also, keep in mind that "attendance" in an online course means logging into the platform on a regular basis, checking for course announcements, and visiting and participating in the discussion forums.

8 week Version

This 3 credit, 8 week course requires about 135 hours of work. Therefore, expect to spend approximately 15-20 hours per week preparing for and engaging in this course.

16 week Version

This 3 credit, 16 week course requires about 135 hours of work. Therefore, expect to spend approximately 8-10 hours per week preparing for and engaging in this course.

Materials

This course makes use of open educational resources (OERs) provided within the course, **no purchase necessary**.

Graded Assignments

Graded assignments are required and count towards your final grade. Students must submit all assignments via the course site unless otherwise instructed.

Assignment Deadlines

Your instructional team will provide all content and learning activities on or through your course site. It is your responsibility to review all content, fulfill all assignments on time, and ask any questions you have in the designated discussion area. It is also your responsibility to determine the due dates and times for all course assignments according to your time zone. Due to the large-scale format of Universal Learner Courses, late assignments will not be accepted at any point during the course, and we cannot make exceptions.

Course Communication

All communication will take place via the discussion forums and course announcement page. There will be a discussion forum where you can post general questions, comments, and direct inquiries for the instructor and course team. Please use these forums to ensure a timely response. Your instructor will not be able to respond to email.

Additional Information

If you have questions about Universal Learner Courses and how they work, please visit ea.asu.edu or contact our support team at ulcourses@asu.edu.