

STA-STATISTICS (STA)

STA 2023 Elementary Statistics I (3 Credits)

In this course, students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate.

The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts.

This course is appropriate for students in a wide range of disciplines and programs. Student Learning Outcomes: -Students will visualize and summarize data using descriptive statistics. -Students will apply basic probability concepts to draw reasonable conclusions. -Students will employ concepts of random variables, sampling distributions, and central limit theorem to analyze and interpret representations of data. -Students will choose an appropriate method of inferential statistics, including confidence intervals and hypothesis testing, to make broader decisions based on sample data. -Students will model linear relationships between quantitative variables using correlation and linear regression.

General Education, Area IV: Mathematics

STA 2023H Elementary Statistics I Honors (3 Credits)

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This course is appropriate for students in a wide range of disciplines and programs. The course will be delivered using a cross-disciplinary approach. Student Learning Outcomes: -Students will visualize and summarize data using descriptive statistics. -Students will apply basic probability concepts to draw reasonable conclusions. -Students will employ concepts of random variables, sampling distributions, and central limit theorem to analyze and interpret representations of data. -Students will choose an appropriate method of inferential statistics, including confidence intervals and hypothesis testing, to make broader decisions based on sample data. -Students will model linear relationships between quantitative variables using correlation and linear regression.

General Education, Area IV: Mathematics