

# STATISTICS (STA)

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## **STA 2023 Statistics**

**Credit Hours:** 3

**Prerequisites:** MAC 1105 or MGF 1106 with a grade of "C" or higher

**General Education Category:** Mathematics Attribute, Mathematics CORE COURSE

An elementary statistics course with emphasis on mathematical concepts and suitable for students of business, mathematics, education and the sciences. Topics include: (i) measure of central tendency and spread; (ii) probability; (iii) binomial, normal, and t, and Chi-square distributions; (iv) statistical inference, and (v) linear regression and correlation. This course is a state-designated core course. Course meets General Education and College Level Mathematics Skills requirements.

## **STA 2023H Honors Statistics**

**Credit Hours:** 3

**Prerequisites:** MAC 1105 or higher with a grade of "C" or higher and admission to the EFSC Honors Program

**General Education Category:** Mathematics Attribute, Mathematics CORE COURSE

An elementary statistics course with emphasis on mathematical concepts and suitable for students of business, mathematics, education and the sciences. Topics include: (i) measure of central tendency and spread; (ii) probability; (iii) binomial, normal, and t, and Chi-square distributions; (iv) statistical inference, and (v) linear regression and correlation. The honors course requires students to work cooperatively, carry out group activities in and out of class, submit team and individual projects, and increase depth of topic exploration. This course is a state-designated core course. Course meets General Education and College Level Mathematics Skills requirements.

## **STA 3024 Statistics 2 for Data Scientists**

**Credit Hours:** 3

**Prerequisites:** MAC 1233 and STA 2023 - both courses with a grade of "C" or higher

An intermediate to advanced level in Statistics. Topics include multivariate statistics, nonparametric tests, simulation, permutation tests and some database techniques.