

# STAT- STATISTICS

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## STAT243Z Elementary Statistics I ★

Credits 4

Summer/Fall/Winter/Spring

**Registration Requirement:** RD090 and WR090, or IECC201R and IECC201W; and MTH105/MTH105Z or MTH111/MTH111Z; each with a grade of "C" or better.

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate.

**This course fulfills:** Non-Lab Science

## STAT244 Elementary Statistics II

Credits 4

Summer/Fall/Winter/Spring

**Registration Requirement:** RD090 and WR090, or IECC201R and IECC201W; and MTH243/STAT243Z; each with a grade of "C" or better; or placement above stated course levels.

This course gives a deeper look into inferential statistics; including formal construction of confidence intervals & hypothesis tests of one and two populations, Analysis of Variance, goodness-of-fit & contingency tables, linear regression & prediction intervals for bivariate data, data collection techniques & experimental design, probability theory using contingency tables normal distributions, and discrete & binomial probability distributions. Computer software experience is provided. A culminating project, in which students gather samples, make inferences regarding populations & present their findings is required. Use of actual data & interpretation of statistical results are emphasized.

**This course fulfills:** Non-Lab Science

*Course fees are subject to change. Additional section fees (web, hybrid, etc.) may apply.*

★ Course offered online

🌐 Cultural Literacy course