

# APPLIED STATISTICS GRADUATE CERTIFICATE

**Banner Code: VS-CERG-ASTA**

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STAT 526	Applied Regression Analysis
STAT 530	Foundations of Statistical Thinking
Total Credits	9

This graduate certificate trains students in data analysis and statistical methodology. It is intended to complement PhD and MS programs outside the Department of Statistics. It is also intended to be responsive to the needs of those who teach or work in government/industry and want to increase their knowledge of statistics.

The certificate emphasizes the application of statistical tools, not theory. As such, there are no required prerequisite math courses, although one semester of calculus is strongly recommended.

This certificate provides a clear record of additional instruction in statistics for future graduate programs or employers.

The graduate certificate may only be pursued on a part-time basis.

## Admissions & Policies

### Admissions

Applicants should have an undergraduate degree from an accredited institution, with a minimum overall GPA of at least 3.00 (on a 4.00 scale). No specific undergraduate degree is required. Applicants are expected to have basic computer literacy. Successful completion of an undergraduate course in statistics is required for admission. One semester of calculus is strongly recommended.

## Requirements

### Certificate Requirements

Total credits: 12

#### Required Course

STAT 535	Analysis of Experimental Data <sup>1</sup>	3
Total Credits		3

- <sup>1</sup>
- With prior written approval of the graduate certificate coordinator, a student with sufficient background in statistics may replace STAT 535 Analysis of Experimental Data with 3 credits chosen from the list of elective courses.
  - STAT 535 Analysis of Experimental Data is a prerequisite for STAT 517 Experimental Design, STAT 525 Nonparametric Statistics and Categorical Data Analysis, STAT 526 Applied Regression Analysis, and STAT 530 Foundations of Statistical Thinking.

### Electives

Select 9 credits from the following: 9

STAT 515	Applied Statistics and Visualization for Analytics
STAT 517	Experimental Design
STAT 525	Nonparametric Statistics and Categorical Data Analysis