

Graduate Certificate Program in Applied Statistics

Department of Mathematics and Statistics offers a graduate certificate in applied statistics

The Graduate Certificate program in Applied Statistics is a self-program that can be completed in three to four semesters alongside a graduate degree program in another discipline or as a stand-alone program by working professionals interested in expanding their knowledge in analyzing and interpreting data. It will prepare students for the job market where data analyses skills are preferred. Courses offered in HyFlex or Online mode.

It is aimed to:

- x Provide knowledge of designing studies for data collection in a variety of situations.
- x Educate students about assumptions behind different statistical methods and how to check them.
- x Prepare students to identify appropriate statistical analyses techniques for given situations.
- x Prepare students to perform basic statistical data analysis needed for their research.

Prerequisite A bachelor's degree in any discipline.

Admission requirements To be admitted to this Applied Statistics Certificate program, students must be admitted to the graduate school. GRE scores and Recommendation are not required for admission into the graduate certificate program. However, students are not required to have a calculus background to be successful in these courses. However, calculus may be required by master's degree programs.

Program requirements Students will be required to complete 12 hours of class work, from which two courses (ST 540 and ST 545) are mandatory and the other two are to be chosen from the list below. The remaining hours of course work must be completed with no grade lower than B. A minimum 3.0 GPA is required to obtain the certificate.

Required:

- ¾ ST 540 Statistics in Research (3 cr)
- ¾ ST 545 Statistics in Research (3 cr)

Select two courses (total of six hours) from the list below based on professional goals:

- ¾ ST 525: Applied Statistics for Clinical Trials (3 cr)
- ¾ ST 550: Environmental Statistics (3 cr)
- ¾ ST 555: Categorical Data Analysis (3 cr)
- ¾ ST 585: Nonparametric Models (3 cr)
- ¾ ST 590: Special Topics in Statistics (3 cr)