

Graduate Certificate Program in Applied Statistics

The Department of Mathematics and Statistics will offer a new graduate certificate in applied statistics starting Fall 2023.

The Graduate Certificate program in Applied Statistics is a four-course 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. It is aimed to:

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

Pre-requisite is a bachelor's degree in any discipline. 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 courses listed below. Twelve hours of course work must be completed with no grade lower than "B". A minimum 3.0 GPA is required to obtain the certificate. Possible courses are:

Required:

- [ST 540 Statistics in Research I](#) (3 cr)
- [ST 545 Statistics in Research II](#) (3 cr)

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

- [ST 525: Applied Statistics for Clinical Trails](#) (3 cr)
- [ST 550: Environmental Statistics](#) (3 cr)
- [ST 555: Categorical Data Analysis](#) (3 cr)
- [ST 560: Applied Design and Analysis of Experiments](#) (3 cr)
- [ST 575: Statistical Computing and Graphics](#) (3 cr)
- [ST 580: Statistical Learning Techniques in Data Science](#) (3 cr)
- [ST 585: Nonparametric Modeling](#) (3 cr)
- [ST 590: Special Topic](#) (3 cr)

For any more information, contact Dr. Huybrechts Bindele at hbindele@southalabama.edu or Phone: (251) 460-7294.