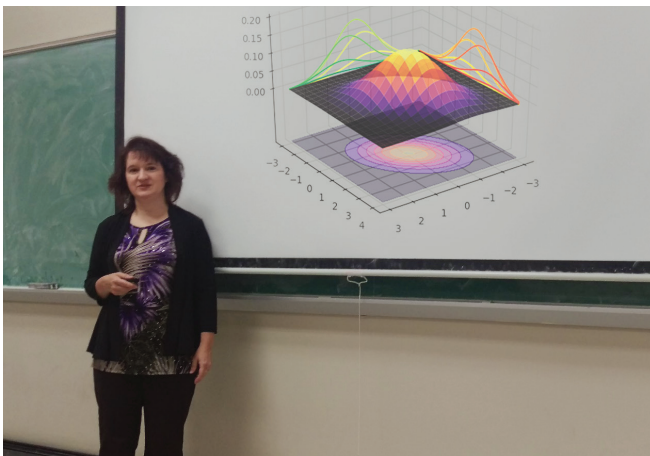


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EKU

BACHELOR OF SCIENCE IN **STATISTICS**

Department of Mathematics & Statistics

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The Department of Mathematics and Statistics offers the Bachelor of Science degree in Statistics, one of only two undergraduate programs in statistics in Kentucky. All students in the program will take the following courses: Applied Statistics, Applied Regression Analysis, Calculus I, Calculus II, Calculus III, Linear Algebra and Matrices, a computer programming course, Mathematical Statistics I, Mathematical Statistics II, Experimental Design, and Statistics Capstone. Statistics majors will also choose two courses from the following list: Sampling Methods, Nonparametric Statistics, Applied Probability, Quality Control & Reliability, Statistical Methods Using SAS, and R and Introductory Data Mining (at least one of the courses must be Statistical Methods Using SAS or R and Introductory Data Mining). Students will also take two more courses in statistics, mathematics, or computer science. Integrating technology into the statistics curriculum is a priority. Various statistical and mathematical packages, including SAS, R, Minitab, Mathematica, and Geogebra, are available on campus. Students may get involved in extracurricular activities by becoming a member of the Statistics Club/Mu Sigma Rho or the Sports Analytics Club.

Career Paths

The rapid increase in large, complex data sets has resulted in a great demand for professionals who are trained to manage and analyze them. According to Forbes, "Data Scientist" is third on the list of in-demand tech jobs that employers are struggling to fill. Martyn Jones, Managing Director at Cambriano Energy, said, "Without a grounding in statistics, a Data Scientist is a Data Lab Assistant." The BS in Statistics prepares students for careers in data science, industry, government, and the actuarial profession, as well as for graduate study in statistics. Graduates of the program have worked at various government agencies, insurance companies, pharmaceutical companies, and actuarial firms.

Other Degree Programs

The Department of Mathematics and Statistics also offers a Bachelor of Science in Mathematics; minors in Actuarial Science, Mathematical Sciences, Mathematics, Mathematics/Teaching, and Statistics; a Certificate in Applied Data Science; and a Master of Arts in Applied Mathematics with concentrations in Secondary Mathematics and Applied Mathematics and Statistics.

Statistics Alumni



Sarah Hale Class of 2010

"The coursework at EKU provided me a high-quality education and was an excellent platform for graduate school and my career. The professors are engaging and supportive, and I truly enjoyed my time there."



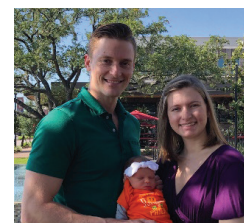
Dalton Hopper Class of 2019

"EKU's statistics program is top notch. You get a mix of both applied and theoretical coursework from professors who are so passionate about your well-being and success. Completing the program will certainly allow you to be employable upon graduation, but you'll also get a solid foundation that will allow you to excel in a graduate program. I seriously can't say enough good things about my undergraduate experience; I miss it so much!"



Megan Mathre Class of 2017

"EKU's statistics program is challenging and engaging. I learned so much from the courses and left college feeling prepared to enter the workforce and thrive. The professors are absolutely committed to the success of their students, and I couldn't be more grateful to them."



Madysen Rydeen Class of 2014

"Following earning my bachelor's degree in Statistics, I have been employed as an advisor in various departments both at Texas A&M University and the local community college. I found my passion working in higher education, which stemmed from my enjoyment of tutoring fellow students while at EKU. Even though my career drifted away from my area of study, having my degree in Statistics was the X factor I needed to receive every job I have had. The hiring committees for each job I received appreciated that I could help them with assessments and data analysis, since they did not have many employees who had that expertise. I am so glad to have had such supportive and knowledgeable faculty in the Statistics program at EKU; without them, I would not be where I am today."



Rebecca (Thiem) North Class of 2016

"In addition to the quality teaching and courses in the EKU Department of Mathematics and Statistics, the faculty and staff are extremely supportive and inspiring. They took interest in developing me as an individual as well as a future professional and recognized my potential to succeed in summer research programs and in a PhD program. The department is a tight-knit family of professors who care about their students, and I would not trade my undergraduate experience for anything."
