

Doctor of Philosophy Statistics

Overview

The explosion of data in the business world has made the field of Statistics increasingly valuable. Simple tools applied to small data applications no longer suffice. Rather, the norm is massive and complex databases with difference structures. The size and complexity of such data presents both a challenge and opportunity to Statistics. As has always been the case, new applications drive the development of new and novel statistical techniques.

The Statistics, Operations, and Management Science Department at the University of Tennessee is pleased to offer a Statistics concentration Ph.D. in Business Administration to develop researchers who are well-equipped to make a vital contribution in such environments. Our department's expertise includes data mining and multivariate modeling, time series analysis, process mining and improvement, and design of experiments. Students interested in these areas would find have the opportunity to study with world-renowned researchers.

Persons entering the Ph.D. program at UT will need to have a grounding in the basic business disciplines and prior, advanced education in Statistics. (In some instances, deficiencies in these areas can be removed by additional coursework at UT) The required Ph.D. courses at UT are:

- Computational methods in statistics
- Theory for developing new tools (two courses)
- Doctoral courses in two or more of the following areas: data mining, statistical process control, design of experiments, and multivariate modeling
- Graduate seminar in the chosen research field.
- Complimentary course work in one chosen discipline outside statistics, such as Management Science, Marketing, Finance, Economics, and Engineering Sciences. (The area of this coursework should support either the dissertation or the long-term work interests of the student.)

The dissertation must be applications-driven research. Internship is also required of those who have little prior work experience.

The University

The University of Tennessee is the official land-grant institution for the State of Tennessee. As the comprehensive campus of one of the nation's largest universities, it is an institution that offers a wide range of graduate programs leading to master's and doctoral degrees.

The University is located in a regional metropolitan center for commerce, medical service, science, and education. The area, which is consistently rated as one of the most livable places in the United States, enjoys a moderate cost of living and a mild climate with a pleasant change of seasons. Abundant

recreational opportunities are provided by the proximity (45 miles) of the Great Smoky Mountains National Park and the many large lakes within one hour's drive.

Programs offered by the College of Business Administration are fully accredited by the American Assembly of Collegiate Schools of Business. The University has a new library that offers an extensive collection of books, periodicals, and other works. The UTK Computing Center offers modern technology and support services that constantly change in response to the needs of the University.

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