DREXEL UNIVERSITY COLLEGE OF ARTS AND SCIENCES

Mathematical Statistics (BS)

PROGRAM OVERVIEW

Drexel's Bachelor of Science (BS) in Mathematical Statistics is a degree that is attractive to students interested in a variety of industries ranging from actuarial science, medicine, engineering, education, politics, technology, marketing, media, business intelligence, and finance. Statisticians play a key role in identifying problems and finding solutions to those problems.

Mathematical statistics majors will learn modern statistical analysis methods and how to apply these analyses across a number of industries and careers. Applied electives, drawn from classes across the university, provide students the flexibility to discover the role statistics plays in a field of their choosing, Theoretical courses will also provide students with a deep understanding of how statistical analysis works, developing the skills to adapt and develop novel quantitative tools to tackle tomorrow's problems today.

Mathematical Statistics majors explore careers in **ACTUARIAL SCIENCE, ENGINEERING, MARKETING, BUSINESS INTELLIGENCE AND ANALYTICS AND DATA SCIENCE.**

INNOVATIVE CURRICULUM

The BS in Mathematical Statistics curriculum helps students to develop highly specialized skills in a variety of mathematical areas including data analytics, statistics, probability, and experimental design, among many others. Additionally, students will receive foundational coursework in computer science, computer programming, and research methods.

Students will also be able to select a generous number of electives from a variety of related subject areas. This coursework may include:

MATHEMATICAL FINANCE BIOINFORMATICS • DEEP LEARNING ECONOMETRICS • GEOGRAPHIC INFORMATION SYSTEMS AND ENVIRONMENTAL MODELING INFORMATION AND DATA VISUALIZATION BIG DATA ANALYSIS AND PROBLEM SOLVING • LINEAR MODELING FOR DECISION MAKING • FOCUS GROUP ANALYSIS • CRIME PREDICTION MODELING ACTUARIAL MATHEMATICS • DATA MINING

According to the U.S. Bureau of Labor Statistics, jobs for mathematicians and statisticians are projected to grow by 31% between 2021 and 2031, which is much faster than the average for all occupations.

THE MATH RESOURCE CENTER

Staffed by full-time faculty, teaching assistants and math majors, the Math Resource Center is where all Drexel students go to prepare for exams, get help with homework or attend one-on-one tutoring sessions. Students who tutor in the Center have the opportunity to interact with their peers, faculty and graduate students, while earning extra money.

DREXEL CO-OP

Co-operative education options prepare mathematical statistics students to pursue advanced education and careers across wide-ranging areas, such as:

FINANCIAL ANALYSIS • FINANCIAL ADVISING
OPERATIONS RESEARCH • ACTUARIAL SCIENCE
QUANTITATIVE ANALYSIS • ENVIRONMENTAL SCIENCE • RISK MANAGEMENT AND INSURANCE
REAL ESTATE APPRAISAL • MARKET RESEARCH
ACCOUNTING • SURVEY RESEARCH
SOFTWARE DEVELOPMENT • PUBLIC HEALTH
PHARMACOLOGY • GOVERNMENT AND MANY OTHERS!

MINORS AND CERTIFICATES

MINORS

- Actuarial Science
- Data Science (CCI)
- Information Systems (CCI)
- Business Analytics (LeBow)

CERTIFICATES

- Ethical Theory and Practice
- Philosophy, Science and Technology

BEYOND THE CLASSROOM

STUDENT CLUBS AND ORGANIZATIONS

Math Student Organization (MSO)

Open to all students, this organization provides opportunities to explore math beyond the classroom and to interact with students who share similar interests. The MSO organizes a variety of activities, as well as events featuring invited guests, and is dedicated to guiding aspiring actuaries.

Society for Industrial and Applied Mathematics (SIAM)

The goal of this Drexel student chapter is to generate interest in applied mathematics and to create opportunities for networking and meeting students with similar interests.

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