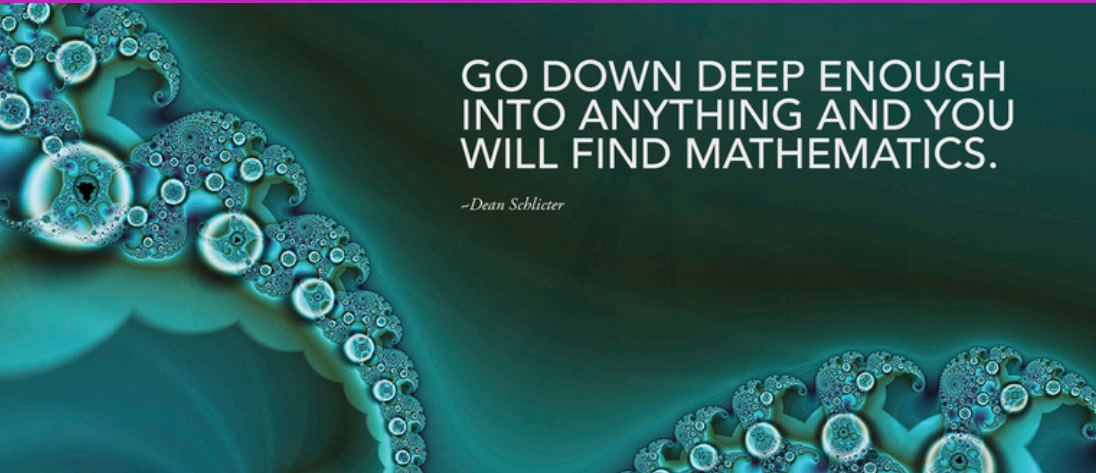


MATHEMATICS AND STATISTICS



FACULTY OF SCIENCE

A large, intricate fractal image, likely a Mandelbrot set, rendered in shades of teal and blue. It features complex, self-similar patterns of spirals and circles, filling the background of the middle section of the page.

GO DOWN DEEP ENOUGH
INTO ANYTHING AND YOU
WILL FIND MATHEMATICS.

-Dean Schlicter

ABOUT MATHEMATICS & STATISTICS

Mathematics studies the logical structure, patterns and relationships that describe our world. It includes algebra, analysis, calculus, differential equations, discrete mathematics, geometry, scientific computing and topology. It applies these to the other natural sciences as well as social sciences and engineering to make discoveries about the world that may be otherwise impossible.

Statistics is the science of learning from data, and of measuring, controlling, and communicating uncertainty.

Statistical sciences offer the modeling of data in science, medicine, industry, and government, and deals with inferences using mathematical tools and probability theory. Statistics plays a central role in data science and artificial intelligence.

Data Science combines mathematics, statistics, programming, advanced analytics, artificial intelligence and machine learning to extract knowledge and insights from structured and unstructured data.

DEGREES OFFERED

- Major or honours in Mathematics (BA or B.Sc.)
- Major or honours in Statistics (BA or B.Sc.)
- Major in Data Science (BA or B.Sc.)

We also offer joint programs between mathematics and chemistry, computer science, economics and physics as well as statistics and biology, computer science and economics.

Minors in mathematics and statistics are available.

The Department of Mathematics and Statistics offers courses leading to general and honours degrees in both the Faculty of Science and the Faculty of Humanities and Social Sciences.

Normally, the undergraduate program officer will be the advisor for each student who has undertaken a major in mathematics or honours in mathematics and the Deputy Head of Data Science and Statistics will be the advisor for any student taking a major in statistics or data science.

MATH & STATS AT MEMORIAL

The Department of Mathematics and Statistics employs students in the Math Help Centre and to mark assignments. Some students qualify for summer projects funded by the National Science and Engineering Research Council.

CAREERS

- Actuary
- Artificial Intelligence Researcher
- Biostatistician
- Cryptographer
- Data Analyst
- Data Scientist
- Database Developer
- Demographer
- Economist
- Financial Advisor
- Mathematician
- Mathematical Modeler
- Meteorologist
- Operations Research Analyst
- Risk analyst
- Software engineer
- Statistician
- Teacher
- Theoretical Physicist

FOR MORE INFORMATION

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