Numbers are all around us. From the thickness of the ozone layer to infant mortality rates, from the cost of beer to the chances of contracting AIDS, the world is permeated with quantity. Most of the quantitative information we have is incomplete, or an estimate, or an average, or the result of inexact measurement. This does not mean the information is useless. What it means is that to consider ourselves well educated, we must be able to extract knowledge from numerical data that are subject to random error.

Statisticians do things as diverse as setting insurance rates, testing new drugs, estimating levels of air and water pollution, monitoring the quality of industrial products, and predicting the outcomes of national elections.

Programs of Study (POST)
- Specialist Program ERSPE1540 Statistics, Applied (Science)
- Major Program ERMAJ1540 Statistics, Applied (Science)
- Minor Program ERMIN1540 Statistics, Applied (Science)

Check out...
What's a strange attractor? Take MAT332H5 to learn about stability in nonlinear systems of bifurcation theory, chaos, and fractals. Crack that code! Embark on a journey through the methods of algebra and number theory in cryptography in CSC322H5.

What can I do with my degree?
The career you choose will depend on your experience and interests. Visit the Career Centre to explore your career options.

Careers for graduates: Actuary; Budget analyst; Insurance underwriter; Logistics specialist; Market research analyst; Mathematical technician; Numerical analyst; Operations research analyst; Statistician; Systems operation analyst; Data entry clerk; Epidemiologist.

Workplaces: Government Agencies; Banks; Investment firms; Insurance companies; Research and development firms.
1ST YEAR


Choose a program of study (Subject POSt) once you complete 4.0 credits. Use the Degree Explorer Planner and the Academic Calendar to plan your degree.

Start strong and get informed with the Office of Student Transition. Join a RGASC Peer Facilitated Study Group.

Use the Co-Curricular Record (CCR). Search for opportunities beyond the classroom, and keep track of your accomplishments.

Attend the Get Experience Fair through the Career Centre (CC) to learn about on- and off-campus opportunities.

Networking simply means talking to people and developing relationships with them. Start by joining the Mathematical and Computational Sciences Society (MCCS). Follow them on Twitter. Get to know your TA. View the Math Help Room Schedule on the MCS departmental website. Visit the UTM Library Reference Desk.

Attend events held by the International Education Centre (IEC) to explore different cultures through food, music, and sport or through sight-seeing around the GTA.

2ND YEAR


Throughout your undergraduate degree:
- use the Degree Explorer to ensure you complete your degree and program requirements.
- see the Office of the Registrar and the MCS Undergraduate Counsellor.

Use the Career Learning Network (CLN) to find postings for on- and off-campus work and volunteer opportunities.

Work on-campus through the Work-Study Program. View position descriptions on the CLN.

Embark on a UTM Abroad Co-Curricular Experience through the IEC. Take advantage of this opportunity to travel with a faculty member and learn about a topic of interest in a unique location.

Prefer traveling in Canada? Check out the IEC’s UTM Across Canada program.

3RD YEAR

Enroll in courses STA302H5, 304H5, 305H5 and 348H5. For third year and higher, attain 2.0 credits from STA312H5, 313H5, 413H5, 431H5, 437H5, 441H5 and 457H5, as well as 2.0 credits from CSC326H5, 411H5, MAT302H5, 311H5, 330H5, 334H5, 344H5 and 378H5.

Consider applying for the Research Opportunity Program (ROP) course STA399Y. Visit the EEO website for ROP Course Prerequisites. Attend the RGASC’s P.A.R.T. to enhance your research skills.

Consider a practical work-based experience through UofT’s Professional Experience Year — Canada’s largest undergraduate paid internship program that offers 12- to 16-month work placements. Speak to the MCS Undergraduate Counsellor.

Establish a professional presence on social media (e.g., LinkedIn). Attend the UofT Statistical Sciences department’s Seminar Series.

Earn credits overseas! Study for a summer, term or year at one of 120 universities. The MCS department’s topic pick is Lund University (Sweden). Speak to the IEC for details about Exchange and funding.

What’s your next step after undergrad?


Considering further education? Research application requirements, prepare for admission tests (LSAT, GMAT) and research funding options (OGS, SSHRC). Consider joining the Statistical Society of Canada and the Industrial Mathematics Society.

4TH OR FINAL YEAR

Enroll in courses STA320H5, 304H5, 305H5 and 348H5. For third year and higher, attain 2.0 credits from STA312H5, 313H5, 413H5, 431H5, 437H5, 441H5 and 457H5, as well as 2.0 credits from CSC326H5, 411H5, MAT302H5, 311H5, 330H5, 334H5, 344H5 and 378H5.

Consider applying for the Research Opportunity Program (ROP) course STA399Y. Visit the EEO website for ROP Course Prerequisites. Attend the RGASC’s P.A.R.T. to enhance your research skills.

Consider a practical work-based experience through UofT’s Professional Experience Year — Canada’s largest undergraduate paid internship program that offers 12- to 16-month work placements. Speak to the MCS Undergraduate Counsellor.

Establish a professional presence on social media (e.g., LinkedIn). Attend the UofT Statistical Sciences department’s Seminar Series.

Join a professional association. Check out the Canadian Applied and Industrial Mathematics Society and the Statistical Society of Canada. Consider joining their Students and Recent Graduates Committee. Go to the Canadian Statistics Student Conference.

Earn credits overseas! Study for a summer, term or year at one of 120 universities. The MCS department’s topic pick is Lund University (Sweden). Speak to the IEC for details about Exchange and funding.

Skills are transferrable to any job regardless of where you develop them. Need to strengthen your leadership skills? Consider being a UTM Let’s Talk Science Outreach volunteer.

Why not work abroad? Read up on worldwide employment trends and industry outlooks through GoinGlobal. Attend the Go Global Expo. See if you are eligible for International Experience Canada.

Market your skills to employers. Get your resume critiqued at the CC. Attend the CC workshop Now That I’m Graduating What’s Next?

Write a strong application for further education. Attend the CC’s Mastering the Personal Statement workshop.

HOW TO USE THIS PROGRAM PLAN

Read through each year. Investigate what appeals to you here and in any other Program Plans that apply to you.

Visit www.utm.utoronto.ca/program-plans to create your own plan using My Program Plan. Update your plan yearly.

*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.

Visit www.utm.utoronto.ca/program-plans for the online version and links.

Revised on: 09/08/2017
To be competitive in the job market, it is essential that you can explain your skills to an employer. Visit the Career Centre to learn how to articulate and market the following skills:

**Research:** design projects, experiments and other studies; analyze, summarize, make inferences and interpret the information collected; and write effective technical reports.

**Technical:** understand statistical concepts and the rules of logic, as well as use a range of specialized software to analyze large quantities of numerical data.

**Problem-solving:** approach problems from different angles to identify key issues and apply statistical theories and methods to solve problems.

**Critical thinking & communication:** effectively communicate ideas and abstract concepts and construct sound arguments.

Check out student organizations on campus. Here are a few:

- Mathematical and Computational Sciences Society (MCSS)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

For a listing of clubs on campus visit www.utm.utoronto.ca/clubs.