MAKE THE MOST OF YOUR TIME AT UTM!

The GIS BSc offers an analytical perspective on geographical information. In-depth studies - beyond basic geography - include mapping, spatial analysis, digital databases with specializations in modeling, statistical analysis and remote sensing.

Our Department prides itself in being at the forefront of student experience at UTM. Our Faculty are very successful and active researchers, maintaining research programs, laboratories and graduate students at UTM. They are also outstanding teachers, with several of our faculty being recognized with teaching awards from both inside and outside the university. We think that the wonderful opportunities and support in our Department will make your degree in Geography not only a meaningful and valuable learning experience, but also exciting and fun.

We want to help you maximize your university experience, so we’ve pulled together information and interesting suggestions to get you started. As you review the chart on the inside pages, note that many of the suggestions need not be restricted to the year they are mentioned. In fact, activities such as joining an academic society, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study at UTM. Read through the chart and create your own plan using My Program Plan found at www.utm.utoronto.ca/program-plans.

What's the connection between GIS and population health? Use GIS to map and study health information such as the spatial clustering of disease in GGR322H5. Ever considered an internship? Apply for JEG400/401 and gain hands on experience.

Programs of Study (POST)

- Major Program ERMA0305 Geographical Information Systems (Science)
- Minor Program ERMIN0305 Geographical Information Systems (Science)

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: Cartographer; Remote sensing analyst; GIS/GPS analyst or technician; Land surveyor; Survey technician; Computer mapping and software developer; Aerial photo analyst; Spatial data analyst; GIS specialist; Geomatics specialist.

Workplaces: Data processing; Remote sensing; Map and atlas publishers; Positioning and navigation; Environmental research agencies; Health care; Survey firms and land developers; Mining.
**GIS MAJOR Program Plan**

### 1ST YEAR
- Enrol in courses GGR111H5 and 112H5.
- 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 utmONE and LAUNCH through 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 events through the International Education Centre (IEC) to learn about on- and off-campus opportunities.
- Attend department research seminars and participate in networking events organized by SAGE.
- Attend the Program Selection & Career Options workshop offered by the Office of the Registrar and the CC. Check out Careers by Major at the CC to see potential career options.

### 2ND YEAR
- Enrol in courses GGR272H5, 276H5, 278H5 and 2.0 credits from any other 200-level GGR courses.
- 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 Geography Academic 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.
- Do you have a professor you really like or connect with? Visit the UTM Library Reference Desk.
- Embark on a UTM Abroad Co-Curricular Experience through the IEC. Speak to the Global Mobility Coordinator and the Geography Academic Counsellor to select the appropriate courses.
- Prefer traveling in Canada? Check out the IEC’s UTM Across Canada program.
- Attend department research seminars and participate in networking events organized by SAGE.

### BUILD A GLOBAL MINDSET
- Attend events through the International Education Centre (IEC) to explore different cultures through food, music, and sport or through sight-seeing around the GTA.
- Visit the UTM Library Reference Desk.

### PLAN YOUR ACADEMICS
- Networking simply means talking to people and developing relationships with them. Start by joining the Student Association for Geography and Environment (SAGE).
- Visit the UTM Library Reference Desk.
- Enrol in courses GGR321H5 and 337H5. Attain 2.0 credits from:
- Work for a foreign lab through the iROP program. Speak to the IEC Global Mobility Coordinator. Prefer staying local? Apply to the ROP course GGR399Y. Visit the EEO website for ROP Course Prerequisites. Attend the RGASC’s P.A.R.T. to enhance your research skills.
- Earn credits overseas! Study for a summer, term or year at one of 120 universities. The Geography department has identified departmental requirements, prepare for admission tests (LSAT, MCAT), and research funding options (OGS, NSERC).

### BUILD SKILLS
- Do you have a professor you really like or connect with? Visit the UTM Library Reference Desk.
- Attend department research seminars and participate in networking events organized by SAGE.
- Embark on a UTM Abroad Co-Curricular Experience through the IEC. Speak to the Global Mobility Coordinator and the Geography Academic Counsellor to select the appropriate courses.
- Prefer traveling in Canada? Check out the IEC’s UTM Across Canada program.
- Attend department research seminars and participate in networking events organized by SAGE.

### PLAN FOR YOUR FUTURE
- What’s your next step after undergrad?
- Exploring careers through the CC’s External Job Shadowing Program. Ask the Geography Academic Counsellor about Professional Advancement for Geography and Environment Students (PAGES).
- Considering further education? Attend the CC’s Graduate and Professionals School Fair. Talk to professors – they are potential mentors and references.

### 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.

### 3RD YEAR
- Enrol in courses GGR311H5 and 337H5. Attain 2.0 credits from:
- Work in a foreign lab through the iROP program. Speak to the IEC Global Mobility Coordinator. Prefer staying local? Apply to the ROP course GGR399Y. Visit the EEO website for ROP Course Prerequisites. Attend the RGASC’s P.A.R.T. to enhance your research skills.
- Enjoy your interests. Know a thing or two about computers? Work for UTMs Information & Instructional Technology Services.
- Earn credits overseas! Study for a summer, term or year at one of 120 universities. The Geography department has identified departmental requirements, prepare for admission tests (LSAT, MCAT), and research funding options (OGS, NSERC).

### 4TH OR FINAL YEAR
- What is Experiential Education? It means learn by doing! Gain experience designing and executing an independent senior thesis by enrolling in GGR417YS Honours Thesis. Speak to the GIS Program Advisor about enrolling in a course with hands on experience such GGR437H5 (Advanced Remote Sensing).
- Log on to ACORN and request graduation.
- 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.
- What’s your next step after undergrad?
- Considering further education? Research application requirements, prepare for admission tests (LSAT, MCAT), and research funding options (OGS, NSERC).
- 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.

*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: 08/23/17
Skills developed in GIS

To be competitive in the job market, it is essential that you are able to explain your skills to an employer. Visit the Career Centre to learn how to articulate and market the following skills.

Technical: use specialized field equipment, satellite imagery and state of the art software; experience with computer modeling; conduct surveying and sampling; and conduct field studies.

Research: use statistical applications, as well as gather, organize and analyze data.

Communication: read and construct graphs/maps; summarize results of experiments; communicate across cultures; and maintain records.

Services that support you

- AccessAbility Resource Centre (AARC)
- Career Centre (CC)
- Centre for Student Engagement (CSE)
- Experiential Education Office (EEO)
- Health & Counselling Centre (HCC)
- Indigenous Centre (IC)
- International Education Centre (IEC)
- Office of Student Transition (OST)
- Office of the Registrar (OR)
- Recreation, Athletics and Wellness Centre (RAWC)
- Robert Gillespie Academic Skills Centre (RGASC)
- UTM Library, Hazel McCallion Academic Learning Centre (HMALC)

Get involved

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

- Student Association for Geography and Environment (SAGE)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

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

Department of Geography

William G. Davis Building, Rm 3282
University of Toronto Mississauga
3359 Mississauga Rd
Mississauga ON Canada L5L 1C6
sabrina.ferrari@utoronto.ca
http://www.utm.utoronto.ca/geography

FUTURE STUDENTS

Admission to UTM

All program areas require an Ontario Secondary School Diploma, or equivalent, with six Grade 12 U/M courses, or equivalent, including English. The admission average is calculated with English plus the next best five courses. The approximate average required for admission is mid- to high-70s. More information is available at utm.utoronto.ca/viewbook.

NOTE: During the application process, applicants will select the Chemical & Physical Sciences admissions category, but will not officially be admitted to a formal program of study (Specialist, Major, and/or Minor) until after first year.

Sneak Peek

Make maps using GIS! In GGR272H5 students explore map rendering in the digital and mobile worlds. What are the natural and anthropogenic origins of environmental change? Find out in the physical geography course GGR112H5.

Our department prides itself in being at the forefront of student experience at UTM. Our students use equipment satellite imagery, and state-of-the-art computers and software in the GIS laboratory. We also have an active weather station on campus monitoring local weather conditions. Students can run their own project related to weather monitoring using the latest data logging instruments.

Student Recruitment & Admissions

Innovation Complex, Room 1270
University of Toronto Mississauga
3359 Mississauga Rd
Mississauga ON Canada L5L 1C6
905-828-5400
www.utm.utoronto.ca/prospective