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 supervise 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 an exciting and fun one.

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

**Programs of Study (POSt)**
- Major Program ERMAJ0305 Geographical Information Systems (Science)
- Minor Program ERMIN0305 Geographical Information Systems (Science)

**Check out...**
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.

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

**PLAN YOUR ACADEMICS**

**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.

**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.

**BUILD SKILLS**

- 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.

**BUILD A NETWORK**

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

**BUILD A GLOBAL MINDSET**

- 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.
- Visit the UTM Library Reference Desk.
- Attend the Experiential Education Office (EEO). Search for on- and off-campus work and volunteer opportunities.

**PLAN FOR YOUR FUTURE**

- Enrol in courses GGR321H5 and 337H5. Attend 2.0 credits from GGR311H5, 322H5, 335H5, 370H5, 372H5, 376H5, 437H5 and 494H5.
- 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.
- Explore your interests. Know a thing or two about computers? Work for UTM’s Information & Instructional Technology Services.

**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](http://www.utm.utoronto.ca/program-plans) to create your own plan using My Program Plan. Update your plan yearly.

**3RD YEAR**

- Enrol in courses GGR399Y. Visit the EEO website for details.
- Establish a professional presence on social media (e.g., LinkedIn).
- Attend department research seminars and participate in departmental networking events organized by SAGE.
- Earn credits overseas! Study for a summer, term or year at one of 120 universities. The Geography department has identified partners who are most relevant to their students. Speak to the IEC for details about Course Based Exchange and funding.
- What is Experiential Education? It means learn by doing! Gain experience designing and executing an independent senior thesis by enrolling in GGR417Y5 Honours Thesis. Speak to the GIS Program Advisor about enrolling in a course with hands on experience such GGR437H5 (Advanced Remote Sensing).

**4TH OR FINAL YEAR**

- Consider a practical work-based experience through the internship course JEG4404/401. Speak to the Program Advisor for Geographical Information Systems for details.
- 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.

*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.
Skilled developed in Geographical Information Systems

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:

Technical: use specialized field equipment, satellite imagery and state of the art software; gain 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 Services (AS)
- 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

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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

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