BEHAVIOUR, GENETICS & NEUROBIOLOGY (HBSc)

Department of Psychology

Behaviour, Genetics, and Neurobiology (BGNB) considers physiological and genetic contributions to behaviour. This emerging discipline represents an integrative approach to the study of behaviour that brings together the tremendous gains in knowledge in neuroscience and genetics that have been made in the past few decades. The program combines psychology with life science courses in biology, chemistry, and mathematics to provide excellent preparation for graduate studies in neurosciences.

MAKE THE MOST OF YOUR TIME AT UTM!

We want to help you maximize your university experience, so we’ve pulled together information and interesting suggestions to get you started, although there are many more! 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

Program of Study (POS)

• Specialist Program ERSPE2470 Behaviour, Genetics and Neurobiology (Science)

Check out... How do we treat psychological disorders from a biological perspective? Enrol in PSY346H5 and discover the role of behaviour genetics, structures in the brain, and biochemistry in the nervous system in specific disorders. What’s neuroplasticity? Find out in PSY397H5 – a course that examines the plasticity of the brain and its relationship to behaviour.

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: Animal assisted therapist; Neuropsychologist; Biological technician; Animal behaviourist; Research technician; Informationist; Regulatory/government affairs specialist.

Workplaces: Educational institutions; Medical/health organizations; Government; Behavioural health clinics; Scientific R&D.
BEHAVIOUR, GENETICS & NEUROBIOLOGY SPECIALIST Program Plan

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.

1st YEAR
- Enrol in PSY100Y5, BIO152H5, 153H5, CHM110H5, 120H5; and MAT135Y5/135Y5/137Y5/157Y5.
- Use the Degree Explorer Planner and the Academic Calendar to plan your degree. After completion of 4.0 credits you may apply for a program of study (Subject POS) such as a double major in Psychology & Biology.
- Start strong and get informed with utmONE and LAUNCH through the Centre for Student Engagement (CSE). Join a RGASC Peer Facilitated Study Group.

2nd YEAR
- Enrol in courses PSY201H5, 202H5 or equivalent; BIO205H5, 206H5, 207H5; and PSY290H5. See Second Year Notes for suggested prerequisites for upper year courses. Apply to the Specialist once 8.0 credits have been completed.
- Consider applying for Research Opportunity Program (ROP) courses PSY299Y, BIO299Y and BIO399Y. Visit the EEU website for ROP Course Prerequisites. Attend the RGASC’s P.A.R.T. to enhance your research skills.

3rd YEAR
- Attain 1.0 credit from each of the following three streams: Behaviour; Genetics; and Neurobiology. See the Academic Calendar to view course listings for these categories.
- Throughout your undergraduate degree:
  - use the Degree Explorer to ensure you complete your degree and program requirements.
  - use the Office of the Registrar and the Psychology Academic Counsellor for assistance.

4th OR FINAL YEAR
- Log on to ACORN and request graduation.

PLAN YOUR ACADEMICS* | PLAN FOR YOUR FUTURE

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 Psychology Association of Undergraduate Students of Erindale (P.A.U.S.E) Make sure to go to P.A.U.S.E’s Professors Meet & Greet.
- Visit the Psychology Undergraduate Meeting Place (P.U.M.P. Room) in Deerfield Hall, room 203B. Visit the UTM Library Reference Desk.

BUILD A GLOBAL MINDSET
- Attend events held by the International Education Centre (IEC), whether you are an international or domestic student. Explore different cultures through food, music, and sport or through sight-seeing around the GTA.
- Start with the International Education Week events and learn about the diversity, culture, and international opportunities on campus!

PLAN FOR YOUR FUTURE
- 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.

*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.
Skills developed in Behavious, Genetics & Neurobiology

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:

**Communication:** writing and speaking effectively, as well as inform and explain ideas.

**Research:** design experiments and conduct studies; gather, analyze and interpret data; observe and compare people/data/things; and analyze ideas and information.

**Critical thinking & problem-solving:** make critical decisions under stressful situations, as well as perceive and understand individual differences.

**Investigative:** understand and identify neurological diseases.

**Technical:** perform laboratory procedures, maintain laboratory equipment and instrumentation; comply with quality control procedures.

Get involved

Check out the 100+ student organizations on campus. Here are a few:

- Psychology Association of Undergraduate Students of Erindale (P.A.U.S.E.)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

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

Services that support you

- Accessibility Services (AS)
- Career Centre (CC)
- Centre for Student Engagement (CSE)
- Experiential Education Unit (EEU)
- Health & Counselling Centre (HCC)
- Indigenous Centre (IC)
- International Education Centre (IEC)
- 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)

Department of Psychology

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Academic Counsellor: 905-828-3958
Faculty Advisor: 905-828-5414
www.utm.utoronto.ca/psychology

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 Grade 12 prerequisites this program are Advanced Functions, Biology and Chemistry. 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 Psychology admissions category, but will not officially be admitted to a formal program of study until after second year (Specialist).

Sneak Peek

What are the principles underlying the study of the nervous system and behaviour? Find out in PSY290H5. What’s in your genes? Take BIO207H5 to find out about the principles of Mendelian inheritance and modern genetics.

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/future-students