BIOLOGY FOR HEALTH SCIENCES (HSBc)

Department of Biology

Biology for Health Sciences focuses on areas of biological science that relate to the health of humans and will provide a strong foundation for students interested in pursuing a career in the health sciences.

UTM Biology is a dynamic community. With over two dozen active research scientists, more than forty graduate students and many post-doctoral fellows doing state-of-the-art research using the latest techniques, our students will have the opportunity to learn from the best. Our undergraduate research projects and summer student placements in research labs will give students valuable, first-hand experience working in a laboratory environment.

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. 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 ERMAJ1149 Biology for Health Sciences (Science)
- Minor Program ERMIN2364 Biology (Science)
- Minor Program ERMIN0840 Biomedical Communications (Science)

Check out...

Are we a pill popping or plant popping society? In BIO368H5, you will explore the role of plants in human health and medicine. Take a closer look at human reproduction and development! In BIO380H5 you’ll see how a human embryo becomes organized so that all of the tissues and organs of the adult body form in the right places at the proper times.

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: Biological technician; Health records professional; Veterinary technician; Paramedic; Chiropractor; Pharmacologist; Massage therapist; Clinical research coordinator assistant; Informationist; Community health worker; Doctor; Nurse; Physician’s assistant; Health policy analyst; Patient services coordinator; Dietician; Occupational therapist.

Workplaces: Scientific R&D; Conservation authorities; Pharmaceutical; Consumer health libraries; Non-profit agencies; Hospitals and medical centres.
# FUTURE FOR YOUR PLAN

## MINDSET

**BUILD ACADEMICS**

### 1ST YEAR
- Enrol in courses BIO152H5, 153H5, CHM110H5, 120H5; and MAT134Y5 135Y5/137Y5.
- 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 BIO202H5, 206H5, 207H5, 210Y5, 304H5, 310H5, 380H5; and STA213H5/PSY201H5.
- Work in a foreign lab through the iROP program. Speak to the IEC Global Mobility Coordinator to learn more. Prefer staying local? Apply for ROP courses BIO99Y and BIO439W. Visit the EEC website for ROP Course Prerequisites. Attend the RGASC's P.A.R.T. to enhance your research skills.

### 3RD YEAR
- Attend the ERINDALE Biology Society Networking simply means talking to people and networking. Opportunities beyond the classroom, and keep track of your accomplishments.
- Attend the Get Experience Fair through the Career Centre to learn about on- and off-campus opportunities.
- Networking simply means talking to people and networking. Opportunities beyond the classroom, and keep track of your accomplishments.
- Attend events held by the Erindale Biology Society (EBS). Follow them @utmEBS.
- International Education Centre (IEC): Work in a foreign lab through the IEC. Travel to Peru in our BIO210Y5 class through the IEC. Travel with a faculty member and work alongside local partners conducting research into health and hygiene. Prefer traveling in Canada? Check out the IEC's UTM Across Canada program.

### 4TH OR FINAL YEAR
- 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.

### 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.

[www.utm.utoronto.ca/program-plans](http://www.utm.utoronto.ca/program-plans) for the online version and links.

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

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Skills developed in Biology

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 & interpersonal**: write scientific reports; present research findings; interact professionally with a multidisciplinary team of researchers, technicians, students and professors; and literacy writing.

**Research**: collect and preserve field organisms; dissect preserved or euthanized specimen; inspect specimens; and analyze and evaluate information.

**Technical**: use specialized computer programs; perform laboratory procedures; maintain laboratory equipment and instrumentation; and comply with quality control procedures.

**Quantitative**: analyze data for trends and apply statistical tests to data.

**Critical thinking & problem-solving**: logically interpret trends and results.

Get involved

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

- Erindale Biology Society (EBS)
- 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

- 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 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 Biology

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www.utm.utoronto.ca/biology

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 for this program are Advanced Functions, Biology and Chemistry. The approximate average required for admission is low- to mid-80s. More information is available at utm.utoronto.ca/viewbook.

**NOTE**: During the application process, applicants will select the Life 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**

Interested in the design of the human body? Learn the fundamentals of human anatomy and physiology in BIO210Y5. Students have access to our herbarium which houses about 95,000 specimens of plants.

Effective biological training involves careful study of real organisms, both living and dead. Consequently, almost all Biology courses with laboratories involve students in one or more of the following activities with animals, plants, and/or microorganisms: collecting and preserving organisms from the field; dissecting or handling preserved or euthanized specimens (or properly anaesthetized living specimens); observing and making measurements on organisms maintained under laboratory conditions approved by the Canadian Council of Animal Care.

**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