

Human Biology (HBSc)

Department of Biological Sciences

Specialist

Major

Minor

Human Biology is the scientific study of living organisms with an emphasis on humans and their interactions with their environment. Some sub-disciplines include morphology, taxonomy, physiology, cell biology, biochemistry, neurobiology, development, genetics, evolution and ecology. Laboratory work is an integral component allowing students to apply their scientific study to real-life settings. The Human Biology Program is largely designed for students with a strong interest in the health sciences, incorporating biology, psychology, physical science and social science courses with a human health focus. This program instills the basic foundations required for health-related careers in medicine, dentistry, nursing, pharmacy, physiotherapy and policy/management.

Complementary Programs: Majors in: Conservation and Biodiversity, Plant Biology, Molecular Biology, Immunology & Disease, Population Health, Neuroscience, Psychology.

Make the most of your time at UTSC!

We want to help you maximize your university experience, so we've pulled together information and 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 listed. In fact, activities such as joining a student club, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study.

Check out future career opportunities and skills acquired from completing this program:

Competencies & Skills

- **RESEARCH:** Experimental design, data analysis using statistics, critical interpretation
- **COMMUNICATION:** effectively use multiple formats (written, oral, poster, debate, multimedia)
- **PROFESSIONAL CAPACITY:** Teamwork skills, meet deadlines and expectations, accept and provide constructive criticism, objectively evaluate the contributions of others
- **VALUES:** Be a strong advocate for science

Careers for Graduates

- Research Assistant (hospital, university, private)
- Food Inspection Agencies (research, quality control)
- Researcher-Public Health, Government Agencies
- Pharmaceutical Sales
- Medical Supply Sales
- Biopharmaceuticals (research, quality control)

Further Education

- Graduate Studies
- Medicine
- Dentistry
- Pharmacy
- Physical or Occupational Therapy
- Optometry
- Nursing
- Teacher Education
- Naturopathic or Chiropractic Medicine
- Laboratory Technician
- Radiology Technologist (MRI, CT)
- Clinical Research
- Epidemiology
- Public Health & Public Policy



Connect with Alumni at events on **CLNx** and through **Partners in Leadership**, **10,000 Coffees**, **LinkedIn** and more!

For more information go to:
uoft.me/alumni-services

**NEED HELP CHOOSING
YOUR PROGRAM?**

See uoft.me/choosing

Human Biology (HBSc)

Major Program Pathway

HOW TO USE THIS PROGRAM PATHWAY

Read through each year; investigate what appeals to you here and in other Program Pathways that apply to you. Note that this Pathway is only a suggestion. **For the most up to date information, please check the UTSC Calendar.**

YEAR 1 (0 - 3.5 Credits)

YEAR 2 (4 - 8.5 Credits)

YEAR 3 (9 - 13.5 Credits)

YEAR 4 or FINAL YEAR (14 - 20 Credits)

CHOOSE YOUR COURSES WISELY

- BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3, PSYA02H3.
- 0.5 credit in Math OR Stats from: MATA29H3/MATA30H3/STAB22H3/PSYB07H3.
- Request a Subject POST on ACORN upon completing 4.0 credits.
- Use Degree Explorer and the UTSC Calendar to plan your degree.
- Attend Choosing Your Program events in March.

- 2.5 credits of Biology Core courses: BIOB10H3, BIOB11H3, BIOB34H3, BIOB50H3, BIOB51H3.
- 0.5 credit in a Biology Core Lab from: BIOB32H3 or BIOB33H3.
- Use Degree Explorer and consult with your Program Advisor to ensure you meet your degree and program requirements.

- 1.5 credits from selected C-level BIO or NRO courses (check the UTSC Calendar for further details).
- Use Degree Explorer to ensure you are on track with your degree.

- 0.5 credit from selected D-level BIO or NRO courses (check the UTSC Calendar for further details).
- Use Degree Explorer to ensure you are on track to graduate.
- Register your "Intent to Graduate" on ACORN by the deadline.

DEVELOP YOUR ACADEMIC & RESEARCH SKILLS

- Attend BioSA's BioAID Review Sessions for help with writing lab reports.
- Attend Facilitated Study Groups.
- Your program librarian offers in-depth library research assistance and writing support is available at the CTL Writing Centre.
- Attend Study Skills workshops offered by the AA&CC.

- Check the Research Catalogue and Job Boards on CLNx for possible research opportunities.
- Volunteer in a research lab, hospital, doctor's office, or community organization.
- Consider Work Study or a directed research course (BIOB98).
- Attend your professor's office hours.

- Consider directed research courses: BIOB98, BIOB99.
- Enter to win the UTSC Library Undergraduate Research Prize or Poster Forum.
- Consider a 12-24 week research project abroad through the Mitacs Globalink Research Award or apply to the Summer Research Exchange program; visit ISC for details.

- Attend weekly Biology Seminar series (Fridays 12pm).
- Take upper-level directed research courses (BIOD98/99, BIOD95).
- Submit a paper or be a reviewer for UTSC's Journal of Natural Sciences.
- Apply for the Academic Travel Fund through DSL to conduct research, present at a conference, or engage with the academic community internationally.

APPLY THEORY TO PRACTICE

- Attend the Professor-Student Mix & Mingle to connect with your professors.
- Start building your Co-Curricular Record (CCR) and search for Experiential Learning or Work-Integrated Learning opportunities.

- Take part in "Conversation with Biologists" to interact with leading scientists and learn about their research and career trajectory.
- Check the Research Catalogue and Job Boards on CLNx for possible research opportunities.

- Continue to build on your skills and knowledge through relevant events offered through your department, student groups, DSL and the AA&CC.
- Run for an elected position in a student organization.

- Participate in Ontario's Synapse Life Science Competition: <https://www.synapselifescience.com>

BECOME AN ENGAGED CITIZEN (LOCALLY & GLOBALLY)

- Join a professional student organization like Future Black Physicians, Health Occupation Students of American UTSC, or MEDLIFE; Join the Biology Students Association (BioSA).
- Explore DSL's LEAD program, The First Year Experience Program, and Imani Academic Mentorship program for black youth.

- Get involved with the Scarborough Pre-Med Society or the Medical Education Initiative Organization; Volunteer with Let's Talk Science, a local science outreach program.
- Consider completing the Global Citizenship Certificate or look into Global Learning opportunities, like a summer abroad (visit ISC).

- If you are considering a career in medicine, attend the Diversity in Medicine Seminar.
- Run for an elected position in a student organization.
- Attend a Café Scientifique in your local community.
- Volunteer in a hospital, seniors' residence, Ontario Science Centre.
- Volunteer with DSL as a First Year Peer Advisor.

- Participate in the AA&CC's Partners in Leadership program to learn and network with an alumni mentor about transitioning to work or further education.
- Consider joining a relevant professional association; volunteer for their events and get to know people in your industry of interest.

PLAN FOR YOUR FUTURE CAREER

- Attend program information sessions offered by the department to become informed about degree programs.
- Volunteer with organizations to explore your interest in industries related to your program of study.
- Attend the UTSC Get Experience Fair in September or register with SCSU's Volunteer Network Program.

- Gain experience by applying for a summer, part-time or Work Study position via CLNx.
- Speak to professors and program advisors so you know what to keep in mind for grad school.
- Explore careers through the AA&CC's Job Shadowing and In The Field programs.
- Apply for DSL's All-In Leadership program.

- Speak with staff at the AA&CC to plan a potential career path.
- Check CLNx for networking events or employer information sessions to attend.
- Attend the UTSC Graduate & Professional School Fair in September.
- Join a conference like TEDxUTSC or the International Development Conference to develop professional skills (visit DSL).

- Attend the AA&CC's Get Hired job search conference in April/May.
- Attend the Jobs for Grads orientation for a job search "crash course;" find job opportunities on CLNx.
- Discuss grad school plans early with staff at the AA&CC and your professors.
- Get your Personal Statement reviewed in the AA&CC.

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SERVICES AT UTSC THAT SUPPORT YOU:

To learn about resources and departments that can support you, download the UTSC Student Experience app or visit uoft.me/StARTNow

Diversity & Inclusion

The University of Toronto Scarborough commits to intentionally foster a welcoming and supportive environment for students, faculty, and staff where diversity is valued, and every member of the community feels a sense of belonging on campus.

utsc.utoronto.ca/edo/

Academic Integrity

The university community supports an environment of academic integrity; these are values that include honesty, trust, fairness, respect and responsibility. Learn about the university's academic rules and how to avoid accidental plagiarism by attending an Academic Integrity Matters (AIM) workshop.

academicintegrity.utoronto.ca/

Healthy Campus

UTSC provides supportive environments, resources and services to empower students to maintain their overall physical and mental health and foster their academic success.

uoft.me/healthycampus/

Co-Curricular Record

The co-curricular record is an official institutional document that recognizes your involvement outside the classroom as a significant part of your U of T experience.

clnx.utoronto.ca/ccr

FUTURE STUDENTS

For admission requirements to UTSC, check out the U of T Scarborough Viewbook or contact:

Admissions & Student Recruitment

University of Toronto Scarborough
Room HL104, Main Floor, Highland Hall
416-287-7529

admissions@utsc.utoronto.ca

CURRENT STUDENTS

Departmental Contact

Jennifer Campbell,
SW421D, 416-287-7404,
jac.campbell@utoronto.ca

utsc.utoronto.ca/biosci

Biological Sciences Librarian

Sarah Guay
sarah.guay@utoronto.ca
416-287-7497

Academic Advising & Career Centre

Room AC213 | 416-287-7561

Department of Student Life

Room SL157 | 416-208-4760

Biology Students Association (BioSA)

thebiosa.org

DID YOU KNOW...

This is the most popular program in the department!



Glossary of acronyms:

AA&CC - Academic Advising & Career Centre
BioSA - Biology Students Association at UTSC
CLNx - Career & Co-Curricular Learning Network
CCR - Co-Curricular Record
CTL - Centre for Teaching & Learning
DSL - Department of Student Life
ISC - International Student Centre
SCSU - Scarborough Campus Students Union