Molecular Biology, Immunology & Disease (HBSc)
Department of Biological Sciences

This program provides training and background in general biology with specialized courses in immunology, infection, and disease. In order to further our knowledge and skills in health promotion and disease and infection prevention, students in this program will learn about immunology, microbiology, biochemistry, pathobiology, and disease. Graduates of this program are prepared to play an integral part in advancing health related professions and contributing to disease research following graduate studies.

**Complementary Programs:** Health Studies programs

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**NEED HELP CHOOSING YOUR PROGRAM?**
See uoft.me/choosing

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**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)
- Editor in Scientific Publications

**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

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**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.
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)

- 1.0 Biology credit: BIOA01H3, BIOA02H3.
- 1.0 Chemistry credit: CHMA10H3, CHMA11H3.
- 0.5 credit from: MATA09H3, MATA01H3, [STAB22H3 or PSYB07H3].
- Use Degree Explorer and the UTSC Calendar to plan your courses and program.

YEAR 2 (4 - 8.5 Credits)

- 2.5 credits of Biology Core Courses: BIOB10H3, BIOB11H3, BIOB34H3, BIOB50H3, BIOB51H3.
- Complete BIOB09H3.
- 0.5 credit of Biology Core Lab from: BIOB12H3, BIOB32H3, BIOB33H3.
- Use Degree Explorer and consult with your Program Advisor to ensure you meet your degree and program requirements.

YEAR 3 (9 - 13.5 Credits)

- 1.5 C-level credit as follows: BIOC17H3, BIOC20H3, BIOC39H3.
- Complete BIOC09H3.
- Use Degree Explorer to ensure you are on track with your degree.

YEAR 4 or FINAL YEAR (14 - 20 Credits)

- Complete BIOC9H3 if you have not already.
- Use Degree Explorer to ensure you are on track to graduate.
- Register your “Intent to Graduate” on ACORN by the deadline.

CHOOSE YOUR COURSES WISELY

- Attend BioSA’s BioAID Review Sessions for guidance with writing lab reports.
- Contact the UTSC Library for in-depth research assistance; writing support is available at the CTL Writing Centre.
- Attend a BioSci info session on directed research.

DEVELOP YOUR ACADEMIC & RESEARCH SKILLS

- Attend the Professor/Graduate Student Mix & Mingles to meet many of the professors & TAs you will encounter as you progress through your degree.
- Start building your Co-Curricular Record (CCR) and search for Experiential Learning and Work-Integrated Learning opportunities on the Career & Co-Curricular Learning Network (CLNx).

APPLY THEORY TO PRACTICE

- Attend the Professor/Graduate Student Mix & Mingles to meet many of the professors & TAs you will encounter as you progress through your degree.
- Start building your Co-Curricular Record (CCR) and search for Experiential Learning and Work-Integrated Learning opportunities on the Career & Co-Curricular Learning Network (CLNx).

BECOME AN ENGAGED CITIZEN (LOCALLY & GLOBALLY)

- Join a professional student organization like Future Black Physicians, Health Occupation Students of American UTSC, or MEDLIFE.
- Build confidence and self-esteem through Department of Student Life’s (DSL) LEAD program.
- Develop leadership skills through DSL’s Alternative Reading Week.
- Be an active participant in MIMSA and BioSA events.

PLAN FOR YOUR FUTURE CAREER

- Volunteer with organizations to explore your interest in industries related to your program of study; check listings on CLNx.
- Attend the UTSC Get Experience Fair in September or register with Scarborough Campus Student Union’s (SCSU) Volunteer Network Program.

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

- Consider entering the UTSC Library Undergraduate Research Prize contest, the Mitacs Globalink, or NSERC USRA Research Awards.
- Continue to build your volunteer and work experience.
- Consider directed research courses: BIOC98, BIOC99 and take part in our departmental information session.

- Consider being a peer reviewer for the Journal of Natural Sciences.

- Attend Diversity in Medicine Seminar (for future medical students).
- Volunteer with DSL to be a First Year Peer Advisor. Take part in other DSL activities, such as Indigenous Experiential Journey trip, or intern with an NGO with the Queen Elizabeth II Diamond Jubilee Scholarship Program.
- Attend a Café Scientifique in your local community.

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

- 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.
- If you are considering grad school, discuss your plans with staff at the AA&CC and your professors.
- Get your Personal Statement reviewed in the AA&CC.

For the most up to date information, please check the UTSC Calendar.
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,
jac.campbell@utoronto.ca,
416-287-7404, SW421D

Molecular Biology, Immunology & Disease 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

BioSA - Biology Students Association at UTSC, thebiosa.org

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
MIMSA - Molecular Biology & Immunology Students Association
SCSU - Scarborough Campus Students Union
USRA - Undergraduate Student Research Awards

DISCLAIMER: Please refer to the calendar for the most current and accurate information on programs and degrees: utsc.calendar.utoronto.ca