Biochemistry (HBSc)
Department of Physical & Environmental Sciences

The Major program in Biochemistry provides students with the opportunity to explore the chemistry of living systems. In the first two years, students take a suite of core courses in both biology and chemistry. In later years, students merge these disciplines through courses that explore the chemistry of proteins, enzymes and metabolism. This program is intended for students who are interested in biochemistry, but who do not wish to complete the more focused specialist in biological chemistry. The program is also excellent preparation for students wishing to pursue professional schools such as medicine, pharmacy or law.

Complementary Programs: This program cannot be combined with the Major Program in Chemistry

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, analysis and problem solving
- Design and conduct laboratory research including data collection, analysis and interpretation
- Write technical reports and project proposals
- Present research findings in an organized and succinct manner
- Apply modern analytical instrumentation to biological problems

Careers for Graduates
- Quality Analyst in Product Development
- Scientific Affairs Liaison in Food Packaging
- Sales Representative in Manufacturing
- Drug Safety Assessor in Pharmaceuticals
- Scientific Analyst/Regulator in Government
- Environmental Scientist in Engineering
- Associate Product Manager in Medical Supplies

Further Education
- Medicine
- Dentistry
- Pharmacy
- Law
- Engineering
- Genetics
- Biology
- Physics

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
# Biochemistry (HBSc)
## Major Program Pathway

### Year 1 (0 - 3.5 Credits)
- Complete the following 3.0 credits: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3. (MATA09H3 or MATA30H3), (MATA35H3 or MATA36H3).
- Use Degree Explorer and the UTSC Calendar to plan your courses and program.
- Attend Facilitated Study Groups and the Chemistry Help Centre.
- Drop by the Math & Statistics Learning Centre to have your course-related questions answered.
- Connect with your program librarian for research assistance and workshops.

### Year 2 (4 - 8.5 Credits)
- Complete the following 3.0 credits: BIOB10H3, BIOB11H3, BIOB12H3, CHMB16H3, CHMB41H3, CHMB42H3.
- Use Degree Explorer and consult with your Program Advisor to ensure you meet your degree and program requirements.
- Explore research study courses such as PSCB90H3.
- Attend additional help sessions and research workshops organized by your course instructors.
- Sign up for Study Skills workshops offered by the Academic Advising & Career Centre.

### Year 3 (9 - 13.5 Credits)
- Complete the following 2.0 credits: BIOC12H3, BIOC13H3, BIOC23H3, CHMC47H3.
- Take 0.5 credit from: CHMB20H3*, CHMB23H3*, CHMB31H3, CHMC11H3, CHMC41H3, CHMC42H3. (*If CHMB20H3 or CHMB23H3 is selected, PHYA10H3 is required.)
- Take 0.5 credit from: CHMD47H3, CHMD69H3, CHMD71H3, CHMD79H3.
- Volunteer for Let's Talk Science, High School outreach, and community outreach events.
- Volunteer for Let's Talk Science, High School outreach, and community outreach events.
- Look into International Student Centre's Global Learning programs, DSL’S LEAD program, and Imani Academic Mentorship program for black youth.

### Year 4 or Final Year (14 - 20 Credits)
- Ensure you have fulfilled your breadth requirements.
- Use Degree Explorer to ensure you are on track to graduate.
- Register your “Intent to Graduate” on ACORN by the deadline.
- Attend a “Jobs for Graduates” orientation for a job search “crash course” and for access to full-time job listings.
- Discuss grad school plans early with staff at the AA&CC and your professors.
- Get help with your CV and personal statement at the AA&CC.

---

**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.

---

### Choose Your Courses Wisely
- Get involved with the Chemistry Students Association (CSA) and Environmental and Physical Sciences Students Association (EPSA) to learn more about volunteer opportunities.
- Get involved with professional student organizations such as MEDLIFE, Health Occupation Students of America (HOSA) UTSC, and Future Black Physicians.
- Attend program information sessions organized by the department.

### Develop Your Academic & Research Skills
- Volunteer for Let's Talk Science, High School outreach, and community outreach events.
- Look into International Student Centre’s (ISC) Global Learning opportunities, such as the Summer Abroad, Explore, and Student Exchange programs.
- Get writing support at the Centre for Teaching & Learning (CTL) Writing Centre.

### Apply Theory to Practice
- Attend information sessions such as PSCB90H3.
- Attend additional help sessions and research workshops organized by your course instructors.
- Connect with your program librarian for research assistance and workshops.

### Become an Engaged Citizen (Locally & Globally)
- Attend the UTSC Get Experience Fair in September.
- Register with SCSU's Volunteer Network Program.
- Apply for discipline specific summer, part-time or Work-Study positions; check listings on CLNx.

### Plan for Your Future Career
- Ensure you have fulfilled your breadth requirements.
- Use Degree Explorer to ensure you are on track to graduate.
- Register your "Intent to Graduate" on ACORN by the deadline.

---

**Publication Date: September 2020**
Biochemistry (HBSc)
Department of Physical & Environmental Sciences

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/](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/](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/](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](clnx.utoronto.ca/ccr)

DID YOU KNOW...
This program is part of the Combined Degree Program with the Master of Teaching (MT) offered by OISE.

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
Dr. Effie Sauer & Dr. Nirusha Thavarajah,
biochemistry-major@utsc.utoronto.ca

Biochemistry Librarian
Sarah Forbes, s.forbes@utoronto.ca,
416-287-5616

Academic Advising & Career Centre
Room AC213 | 416-287-7561

Department of Student Life
Room SL157 | 416-208-4760

Environmental & Physical Sciences Students’ Association (EPSA)
https://www.myepsa.ca/

Glossary of acronyms:
AA&CC - Academic Advising & Career Centre
CLNx – Career & Co-Curricular Learning Network
CCR - Co-Curricular Record
CSA - Chemistry Students Association
CTL - Centre for Teaching and Learning
DSL - Department of Student Life
EPSA - Environmental and Physical Sciences Students’ Association
ISC - International Student Centre
SCSU - Scarborough Campus Students’ Union

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