Conservation and Biodiversity (HBSc)
Department of Biological Sciences

The Conservation and Biodiversity programs provide a foundation for understanding how ecology and evolution shape organismal features and the structure and function of communities and ecosystems. Topics covered range from the structure and function of ecosystems to the evolution of behaviour, morphology, and physiology. These programs will show how ecological and evolutionary perspectives can be used to understand and predict the outcome of dynamic interactions among organisms, populations, species, and communities. Students will be: well trained to take positions in government agencies, consulting firms or NGO’s; able to continue graduate studies in science for academic careers; able to pursue careers in business or law related to environmental issues, stewardship and sustainable development.

Complementary Programs: Specialist: Not applicable. Major: Environmental Science and International Development Studies programs.

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
- Explore how organisms interact with the environment
- Conduct and design experiments
- Observe and make measurements on organisms
- Inspect specimens
- Collect, analyze and interpret data
- Utilize laboratory equipment
- Make projections from data

Careers for Graduates
- Conservation Officer in Government Services (TRCA, Parks Canada, Toronto Zoo, Oceans and Fisheries, ROM, etc.)
- Careers in the Ministry of Natural Resources
- Environmental Consultant in NGO’s (The Nature Conservancy, Ontario Nature, David Suzuki Foundation)
- University Researcher
- Lab Technician in Industry

Further Education
- Graduate Studies
- Public Policy
- Environmental Science
- Sustainability
- Law School
- Education
- Medical School
- Project Management
- Energy Management
- Environmental Technology

Conservation and Biodiversity
Department of Biological Sciences

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

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
### Conservation and Biodiversity (HBSc) Specialist & 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)

<table>
<thead>
<tr>
<th>Course Options</th>
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<tbody>
<tr>
<td>1.0 Biology credit: BIOA01H3, BIOA02H3.</td>
</tr>
<tr>
<td>1.0 Chemistry credit: CHMA10H3, CHMA11H3.</td>
</tr>
<tr>
<td>1.0 Math credit: MATA29H3 and MATA35H3 OR MATA30H3 and MATA36H3.</td>
</tr>
<tr>
<td>0.5 Physics credit from: PHYA10H3, PHYA11H3.</td>
</tr>
<tr>
<td>0.5 Computer Science credit from: CSCA08H3, CSCA20H3, FSCB57H3.</td>
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<tr>
<td>Use Degree Explorer and the UTSC Calendar to plan your degree.</td>
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#### YEAR 2 (4 - 8.5 Credits)

<table>
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<tr>
<th>Course Options</th>
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<tbody>
<tr>
<td>3.0 credits of Biology Core courses: BIOB101H3, BIOB111H3, BIOB34H3, [BIOB38H3 or BIOB31H3], BIOB50H3, BIOB51H3.</td>
</tr>
<tr>
<td>0.5 credit of BIO Core Labs: BIOB52H3.</td>
</tr>
<tr>
<td>0.5 credit in STATS from: STAB22H3, PSYB07H3.</td>
</tr>
<tr>
<td>Use Degree Explorer and meet with your Program Advisor to plan your courses and program.</td>
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#### YEAR 3 (9 - 13.5 Credits)

<table>
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<tr>
<th>Course Options</th>
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<tbody>
<tr>
<td>1.0 credit of Ecology &amp; Evolution Foundation courses from: BIOC16H3, BIOC50H3, BIOC59H3, BIOG01H3.</td>
</tr>
<tr>
<td>4.5 credits of C- and D-level Ecology and Evolution courses and Organizational Biology courses; at least 1.0 credit must be at the D-level (see UTSC Calendar for specific course lists).</td>
</tr>
</tbody>
</table>

#### YEAR 4 or FINAL YEAR (14 - 20 Credits)

<table>
<thead>
<tr>
<th>Course Options</th>
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<tbody>
<tr>
<td>Consider entering the following Research Awards Contests: UTSC Library Undergraduate Research Prize, Mitacs Globalink, NSERC USRA, TD Undergraduate Research Opportunity Fellowship.</td>
</tr>
<tr>
<td>Continue to build your volunteer and work experience.</td>
</tr>
<tr>
<td>Consider directed research courses: BIOB98, BIOC99.</td>
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</tbody>
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**Conservation and Biodiversity (HBSc)**

**Specialist & Major Program Pathway**

**Choose Your Courses Wisely**

- Attend Biology Students Association (BioSA) BioAID Review Sessions for guidance with writing lab reports.
- Contact the UTSC Library for in-depth research assistance for your assignments; writing support is also available at the CTL Writing Centre.

**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 Biology Students Association (BioSA) BioAID Review Sessions for guidance with writing lab reports.
- 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 BioSA and ECO; attend their activities and events.
- Build confidence and self-esteem through Department of Student Life’s (DSL) LEAD program.
- Join UTSC Parks Canada Club; volunteer and go on their field trips.
- Volunteer with Campus Farm, Rouge Park, Toronto Zoo, Toronto Botanical Gardens.

**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.
- Volunteer with Let’s Talk Science.
- Consider completing ISC’s Global Citizenship Certificate and look into their Global Learning opportunities.
- Join: Toronto Field Naturalists, Ornithological Club, Mycological Society.
- Volunteer: David Suzuki Foundation, UTSC Green Roofs, Cornell Birds, TRCA.

- 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.

- Attend Diversity in Medicine Seminar (for future medical students).
- Volunteer with DSL to be a First Year Peer Advisor. Consider other DSL activities such as intern with an NGO with the Queen Elizabeth II Diamond Jubilee Scholarship Program.
- Attend a Café Scientifique in your local community.
- Volunteer: David Suzuki Foundation, UTSC Green Roofs, Cornell Birds, TRCA.

- Consider entering the following Research Awards Contests: UTSC Library Undergraduate Research Prize, Mitacs Globalink, NSERC USRA, TD Undergraduate Research Opportunity Fellowship.
- Continue to build your volunteer and work experience.
- Consider directed research courses: BIOB98, BIOC99.

- Continue to build on your skills and knowledge through relevant events offered through your department, student groups, DSL and the AA&CC.
- Consider being a peer reviewer for the Journal of Natural Sciences.

- Participate in Ontario’s Synapse Life Science Competition: www.synapsescience.com
- Consider being an editor for the Journal of Natural Sciences.

- 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 the executive team of the UTSC Parks Canada Club; volunteer for their events and get to know people in your industry of interest.

- Attend the AA&CC’s Get Hired job search conference in April/May.
- Attend the Jobs for Grade 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.
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

Conservation and Biodiversity 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

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

Glossary of acronyms:
AA&CC - Academic Advising & Career Centre
CLNx - Career & Co-Curricular Learning Network
CTL - Centre for Teaching & Learning
DSL - Department of Student Life
ECO - EnviroCare Organization UTSC
ESA - The Ecological Society of America
ISC - International Student Centre
BioSA - Biology Students Association at UTSC
SCSU - Scarborough Campus Students Union
TRCA - Toronto Regional Conservation Authority

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

DID YOU KNOW...
ECO UTSC is an environmentalist group at UTSC which serves to increase local environmental sustainability at the UTSC.