

Neuroscience (HBSc)

Department of Psychology

Specialist

Major

See also co-op option

Neuroscience is a highly interdisciplinary scientific field of study that offers insight into the structure and function of the brain and the nervous system. Our nervous system is responsible for an enormous range of tasks, from regulating essential body functions such as breathing and digestion to producing our thoughts, emotions, and behaviours. Neuroscientists are interested in understanding the normal development and activity of the nervous system, as well as what happens under atypical circumstances such as neurological injury, diseases, and disorders. The Specialist Program in Neuroscience is research-intensive and allows students to choose one of three streams to concentrate their studies: Cellular/Molecular, Systems/Behavioural, or Cognitive.

Complementary Programs: Psychology, Mental Health Studies, Human Biology, Molecular Biology, Computer Science.

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

- Analyze ideas and information
- Communicate clearly, both orally and in writing
- Design experiments and conduct studies
- Gather, analyze and interpret data
- Inform and explain ideas
- Perceive and understand individuals
- Computational modelling
- Neuroimaging

Careers for Graduates

- Researcher in Hospitals or Universities
- Data Analyst
- Pharmaceutical Sales
- Rehabilitation Counsellor
- Neuropsychologist
- Disability Case Manager in Public Insurance
- Volunteer Coordinator in Disease-Focused Education
- Medical careers
- Science Educator

Further Education

- Neuroscience
- Biology
- Psychology
- Medicine
- Law
- Physiotherapy
- Occupational Therapy
- Public Health
- Education



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

Neuroscience (HBSc) Specialist 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

- Complete “Scientific Foundations” courses: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3, PSYA02H3, [MATA30H3 or MATA29H3].
- Apply to “Stage 1” Neuroscience Specialist on ACORN by the deadline.
- Use our program checklists to plan your future courses: uoft.me/psy-checklists.

- Complete Neuroscience Foundations courses: NROB60H3, NROB61H3, [PSYB07H3 or STAB22H3], PSYB55H3, PSYB70H3, BIOB10H3.
- Complete 1.0 credit from: BIOB11H3, CSCA20H3, CHMB41H3, CHMB42H3, MATA23H3, [PHYA10H3 or PHYA11H3], PSYB51H3, PSYC08H3, PSYC09H3.
- Apply to “Stage 2” stream during the Post application period.

- Continue taking B- and C-level courses toward the requirements of your chosen stream.
- Use Degree Explorer and meet with your Program Advisor to ensure you are on track with your degree.

- Complete the D-level Capstone Courses requirement of your program.
- Complete any remaining B- or C-level courses required for your chosen stream.
- Register your “Intent to Graduate” on ACORN by the deadline.

DEVELOP YOUR ACADEMIC & RESEARCH SKILLS

- Use the Chemistry Help Centre.
- Get writing support at the CTL Writing Centre.
- Apply to the Psychology Department’s Budding Scholars program. Winners gain access to research talks and funding opportunities.

- Attend workshops offered by the Academic Advising & Career Centre (AA&CC) and Centre for Teaching & Learning (CTL).
- Seek out volunteer positions in faculty research labs.
- Apply to the Budding Scholars Research Award to receive funding toward a faculty-supervised project.

- Consider completing a Supervised Study course [NROC90H3].
- Consider competing for the UTSC Library Undergraduate Research Prize, the NSERC Undergraduate Student Research Awards, and the U of T Excellence Award (UTEA).

- Consider completing a Thesis course [NROD98H3].
- Apply for a travel award through the DSL or Department of Psychology, to present research at a conference.
- Again, consider competing for UTSC Library, NSERC, and UTEA awards.

APPLY THEORY TO PRACTICE

- Attend the UTSC Faculty Mix & Mingle Fair to connect with professors and learn more about their specialties.
- Start building your Co-Curricular Record (CCR) and search for Experiential Learning opportunities.

- Get involved in the Psychology & Neuroscience Undergraduate Journal Club to learn how to critically analyze scientific literature, and discuss articles with peers.
- Check out Global Research Abroad opportunities through the ISC to gain valuable international and research experiences.

- Build on your skills and knowledge through relevant events offered through your department, student groups, DSL and the AA&CC.

- Attend the Summer & Full-time Job Fair in January to meet with potential employers looking to hire students for relevant summer and full-time positions.

BECOME AN ENGAGED CITIZEN (LOCALLY & GLOBALLY)

- Join the Psychology and Neuroscience Departmental Association (PNDA) to connect with students in neuroscience; explore other student groups as well.
- Volunteer in the Alternative Reading Week to gain experience and knowledge about social change and community development; visit Department of Student Life (DSL) for details.

- Check CLNx for Work Study or volunteer positions on campus to gain experience and to get involved.
- Complete the Global Citizenship Certificate; look into Global Learning opportunities such as the Summer Abroad program and the Explore Program through the International Student Centre (ISC).

- Run for an elected position in the Psychology and Neuroscience Departmental Association (PNDA).
- Take part in the Wellness Peer Programs in the Health & Wellness Centre to help foster a healthy community.

- Participate in the AA&CC’s Partners in Leadership program to learn and network with an alumni mentor about transitioning into the work field or further education.

PLAN FOR YOUR FUTURE CAREER

- Volunteer with organizations to explore your interests; check listings on CLNx.
- Attend the UTSC Get Experience Fair in September and register with SCSU’s Volunteer Network Program to explore opportunities.

- Gain experience by applying for a summer, part-time or Work Study position via CLNx.
- Considering grad school? Speak to professors and advisors early so you are on track.
- Explore careers through the AA&CC’s Job Shadowing and In The Field programs.

- Plan a career path with a staff member at the AA&CC.
- Check CLNx for networking events and employer information sessions to attend.
- Attend the Graduate & Professional School Fair in September.

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

DID YOU KNOW...

UTSC is home to the Graduate Dept. of Psychological Clinical Science, offering an MA/PhD program in clinical psychology.



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

Ainsley Lawson,
psychology-undergraduate@utsc.utoronto.ca

Neuroscience 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

Psychology and Neuroscience

Departmental Association,

<https://www.facebook.com/thepnda/>

Glossary of acronyms:

AA&CC - Academic Advising & Career Centre

CCR - Co-Curricular Record

CLNx - Career & Co-Curricular Learning Network

CTL - Centre for Teaching and Learning

DSL - Department of Student Life

ISC - International Student Centre

PNDA - Psychology and Neuroscience Departmental Association

SCSU - Scarborough Campus Student Union