Statistics HBSc
Department of Computer and Mathematical Sciences

Statistics is the study of the collection, organization, analysis, interpretation and presentation of data. The discipline is research-intensive and includes many interesting aspects such as probability and game theory, statistical modeling and analysis. All of these are applicable to virtually every field. Studying Statistics is an excellent choice for students with strong quantitative skills and an interest in applying these skills to solve practical problems. The Statistics Major or Minor combines well with programs such as Health Studies, Environmental Science, Public Policy, International Development Studies, Economics or Psychology, just to name a few.

Complementary Programs: Mathematics, Computer Science, Economics, Management, Environmental Science, Health Studies, International Development, Physical Sciences, Psychology as well as many others.

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
- Identifying relationships and trends in data and factors that could affect research results.
- Reporting results of statistical analyses in the form of graphs, charts, and tables.
- Analysing and interpreting statistical data to identify significant differences in relationships.

Careers for Graduates
- Actuarial Analyst in Insurance Providers
- Business Analyst in Telecommunications
- Associate in Compensation Consulting Firms
- Associate Risk Consultant in High Tech Manufacturers
- Consulting Associate in Software Developers
- Data & Incentives Analyst in Technology Integration Companies

Further Education
- Statistics
- Actuarial Science
- Epidemiology
- Accounting or Taxes
- Bioinformatics
- Business Administration
- Chartered Financial Analyst

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
## Statistics 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.

### Publication Date: April 2021

<table>
<thead>
<tr>
<th>Year</th>
<th>Credits</th>
<th>CHOOSE YOUR COURSES WISELY</th>
<th>DEVELOP YOUR ACADEMIC &amp; RESEARCH SKILLS</th>
<th>APPLY THEORY TO PRACTICE</th>
<th>BECOME AN ENGAGED CITIZEN (LOCALLY &amp; GLOBALLY)</th>
<th>PLAN FOR YOUR FUTURE CAREER</th>
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<tbody>
<tr>
<td>Year 1</td>
<td>0 - 3.5</td>
<td>- A-level courses: MATA22H3, (CSCA08H3 or CSCA20H3), (MATA30H3 or MATA31H3), (MATA36H3 or MATA37H3). The sequence MATA31H3 and MATA37H3 is recommended. Note: MATA31H3 is the prerequisite for MATA37H3.</td>
<td>- Visit CTL’s Math &amp; Statistics Learning Centre for tutoring services.</td>
<td>- Attend the UTSC Faculty Mix &amp; Mingle Fair to connect with professors and learn more about their specialties.</td>
<td>- Volunteer with organizations to explore your interests; check listings on CLNx.</td>
<td>- Consider grad school? Speak to professors and advisors early so you are on track.</td>
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<td>Year 2</td>
<td>4 - 8.5</td>
<td>- B-level courses: MATB24H3, MATB41H3, MATB42H3, STAB52H3, STAB57H3. Use Degree Explorer to plan your courses and program.</td>
<td>- Further develop your general academic skills by attending workshops offered by the Academic Advising &amp; Career Centre and Centre for Teaching &amp; Learning (CTL).</td>
<td>- Get involved in relevant opportunities on and/or off campus; apply to Work Study, or other part-time and summer jobs on CLNx.</td>
<td>- Attend the UTSC Faculty Mix &amp; Mingle Fair in September and register with SCSU’s Volunteer Network Program to explore opportunities.</td>
<td>- Explore careers through the AA&amp;CC’s Job Shadowing and In The Field programs.</td>
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<td>Year 3</td>
<td>9 - 13.5</td>
<td>- Take STAC67H3.</td>
<td>- Consider competing for the UTSC Library Undergraduate Research Prize or Poster Forum.</td>
<td>- Get involved in relevant opportunities on and/or off campus; apply to Work Study, or other part-time and summer jobs on CLNx.</td>
<td>- Plan a career path with a staff member at the AA&amp;CC.</td>
<td>- Consider competing for the UTSC Library Undergraduate Research Prize or Poster Forum.</td>
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<tr>
<td>Year 4</td>
<td>14 - 20</td>
<td>Ensure you have fulfilled your breadth requirements.</td>
<td>Check the department website for summer research and scholarship opportunities.</td>
<td>Build on your skills and knowledge through relevant events offered through your department, student groups, DSL, and the AA&amp;CC.</td>
<td>Attend the Summer &amp; Full-time Job Fair in January to meet with potential employers looking to hire students for summer and full-time positions relevant to your field.</td>
<td>Apply for an Academic Travel Fund through Department of Student Life (DSL) to research, present at a conference, or engage with the international academic community.</td>
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</tbody>
</table>

- **A-level courses:** MATA22H3, (CSCA08H3 or CSCA20H3), (MATA30H3 or MATA31H3), (MATA36H3 or MATA37H3). The sequence MATA31H3 and MATA37H3 is recommended. Note: MATA31H3 is the prerequisite for MATA37H3.
- **B-level courses:** MATB24H3, MATB41H3, MATB42H3, STAB52H3, STAB57H3.
- **C-level courses:** STAC67H3.
- **D-level courses:** any C- or D-level STA courses, except STAC32H3, STAC53H3 and STAD29H3.
- **E-level courses:** 2.0 credits as follows: any C- or D-level STA courses, except STAC32H3, STAC53H3 and STAD29H3. 1.0 credit from: ACTB40H3, or any C- or D-level CSC, MAT or STA courses.
- **F-level courses:** Check the department website for summer research and scholarship opportunities.
- **G-level courses:** Build on your skills and knowledge through relevant events offered through your department, student groups, DSL, and the AA&CC.
- **H-level courses:** Attend the AA&CC 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. Get your personal statement reviewed in the AA&CC.
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...
Statistician was ranked #6 in the ranking of the 100 Best Jobs of 2021 by the U.S. News & World Report.

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
Susan Calanza,
susan.calanza@utoronto.ca, 647-601-4645
Statistics Librarian
Mariana Jardim,
mariana.jardim@utoronto.ca, 416-208-2987
Academic Advising & Career Centre
Room AC213 | 416-287-7561
Department of Student Life
Room SL157 | 416-208-4760
Association of Mathematical and Computer Science Students, https://www.amacss.org/

Glossary of acronyms:
AA&CC - Academic Advising & Career Centre
AMACSS - Association of Mathematical and Computer Science Students
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

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