Statistics Programs @ U of T
1-2pm, March 1, 2022

Brought to you by the Statistical Sciences Union (SSU) & Department of Statistical Sciences

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Contact us at: ug.statistics@utoronto.ca

Visit us at: statistics.utoronto.ca
**Why Statistics?**

Statistician and Data Scientist are “top ranked professions”. Why is that?

https://thisisstatistics.org/2021-statistician-best-job/

History of the world: Stone Age -> Bronze Age -> Iron Age -> Middle Age -> Industrial Age: Information Age

Information = Ability to extract knowledge from data -> Statistics and Data Science

Statisticians & data scientists are at the forefront of navigating today’s data-driven world!
Statisticians and data scientists rely on a powerful cocktail of probability and statistics, computer science and mathematics.

Principled statistical methods + computationally efficient algorithms = impressive results.

Statisticians and data scientists have widely applicable skills: finance, medicine, engineering, sociology but also history, climatology, literature, etc.

The best thing about being a statistician, is that you get to play in everyone’s backyard.

- John Tukey
Our department at a glance

42+ faculty (8 teaching-stream)

We provide the academic foundation & experiential learning experiences you need to succeed in your studies and beyond.

Founded in 1977

Ranked 1st in Canada and 14th in the World by QS and Shanghai Ranking
Our Statistics Programs

Specialist programs *:

- Statistical Sciences: Methods & Practice (10.5 - 11.0 FCEs + 2.0-3.5 Focus)
- Statistical Sciences: Theory and Methods (11.0 - 11.5 FCEs)
- Data Science Specialist (13.0 - 13.5 FCEs)

* These Specialist programs are eligible Arts & Science Internship Program (ASIP) in 2022

Statistics Major (7.0 - 7.5 FCEs)

Statistics Minor (4.0 FCEs)

See the academic calendar: artsci.calendar.utoronto.ca/section/Statistical-Sciences

You need:
- 1 Specialist,
- 2 Majors, or
- 1 Major + 2 Minors
Arts & Science Internship Program (ASIP) Overview

Enter in Fall Term of Year 2
Work Term 1: Summer between Years 2 and 3
Work Term 2: 8, 12 or 16 months, between Years 3 and 4
Each 4-month block: =>420h, and/or >=12 weeks (35h/week)

- Students must complete a minimum of 12 months of paid work experience to successfully complete ASIP Stream, in addition to PDC1-4 courses

Professional Development Programming

- PDC220H1: Maximizing Your Experience: (Fall Term, Year 2)
  - Articulate skills, career planning, goal setting, building, build personal marketing documents
- PDC221H1: Essential Skills for ASIP Success: (Winter Term, Year 2)
  - Interview preparation, tailoring resumes and cover letters, job search skills, health & wellness in workplace, workplace rights, EDI considerations
- PDC320H1, PDC321H1: Skill Development 1 and 2: (Fall and Winter Term, Year 3)
  - Soft skill development, transferrable to workplace
  - Students select topics from curated skills modules (e.g., communication skills, project management, conflict resolution, etc.)
- PDC: Post ASIP - Planning Your Next Steps (Fall Term, Year 5; optional module)
  - Design thinking approach to "Designing Your Life", leveraging skills learned to support post-graduation career path, mentorship opportunities, community building

Courses are complemented by a series of optional events and programming to help students maximize their experience in the program and connect with industry professionals.

Experiential Learning Commons, coming Summer 2022

Admissions & Eligibility

- Full-time students from ASIP-eligible programs who are going into Year 2 will apply in summer between Year 1 and 2
- Applicants evaluated based on holistic admissions criteria and their resume, cGPA not included.

See full eligibility requirements and admissions process on the ASIP website.
### Program Enrolment Timelines

The timeline below applies to all programs except Collaborative Life Science programs and the Arts & Science Internship Program.

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Application Required</th>
<th>Enrolment Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>No</td>
<td>March 1, 2022 – September 21, 2022</td>
</tr>
<tr>
<td>Limited</td>
<td>Yes</td>
<td>First Request Period: Apply between: March 1, 2022 – April 29, 2022; Check results between: April 30, 2022 – June 10, 2022; Enrol by: July 8, 2022</td>
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<tr>
<td></td>
<td></td>
<td>Second Request Period: Apply between: July 9, 2022 – August 23, 2022; Check results between: August 23, 2022 – September 7, 2022; Enrol by: September 21, 2022</td>
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</tbody>
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**2022 ASIP application deadline:** July 11/22

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*DS Specialist Enrolment 1st round only & Requires Supplementary Application*
## Paths to a Stats Program - Eligibility at end of 1st year (completion of between 4.0 & 8.5 credits)

### Specialist 1 = Specialist in Statistical Science: Methods and Practice (previous Applied Statistics Specialist)
### Specialist 2 = Specialist in Statistical Science: Theory and Methods (previous Statistics Specialist)

<table>
<thead>
<tr>
<th>STA130H1</th>
<th>MAT137Y1/ MAT157Y1 63%+</th>
<th>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/</th>
<th>MAT223H1/ MAT224H1/ MAT240H1</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Specialist 1</strong> *</td>
<td><strong>Specialist 2</strong> *</td>
<td>Minor √</td>
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</tbody>
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<table>
<thead>
<tr>
<th>STA130H1</th>
<th>(MAT135H1, MAT136H1) 73%+ in both courses</th>
<th>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/</th>
<th>MAT223H1/ MAT224H1/ MAT240H1</th>
</tr>
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<tr>
<td></td>
<td><strong>Specialist 1</strong> *</td>
<td><strong>Specialist 2</strong> x</td>
<td>Major *</td>
</tr>
<tr>
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<td><strong>Major</strong> *</td>
<td><strong>Minor</strong> √</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>STA130H1</th>
<th>MAT137Y1/ MAT157Y1 OR (MAT135H1, MAT136H1)</th>
<th>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/</th>
<th>MAT223H1/ MAT224H1/ MAT240H1</th>
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<td><strong>Specialist 1</strong> x</td>
<td><strong>Specialist 2</strong> x</td>
<td>Major *</td>
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<td><strong>Minor</strong> √</td>
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* Limited number of spaces available - competitive entry based on average of grades in calculus course(s) and STA130.*

See calendar [https://artsci.calendar.utoronto.ca/section/Statistical-Sciences](https://artsci.calendar.utoronto.ca/section/Statistical-Sciences)

If missing any of these course requirements, eligible for Minor only. If MAT133Y1 taken toward Minor, need 70%+. 

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Specialist 1 = Specialist in Statistical Science: Methods and Practice (previous Applied Statistics Specialist)

Specialist 2 = Specialist in Statistical Science: Theory and Methods (previous Statistics Specialist)
Paths to a Stats Program - Eligibility at end of 2^{nd} year or later (completion of 9.0+ credits)

| Specialist 1 = Specialist in Statistical Science: Methods and Practice (previous Applied Statistics Specialist) |
| Specialist 2 = Specialist in Statistical Science: Theory and Methods (previous Statistics Specialist) |

<table>
<thead>
<tr>
<th>(STA257H1, STA261H1)</th>
<th>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/ MAT237Y1/ MAT257Y1</th>
<th>MAT223H1/ MAT224H1/ MAT240H1</th>
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<tr>
<td>(STA257H1, STA261H1)</td>
<td>63%+ in both courses</td>
<td>Specialist 1 *</td>
</tr>
<tr>
<td>(STA237H1, STA238H1)/</td>
<td>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/ MAT237Y1/ MAT257Y1</td>
<td>Specialist 2 *</td>
</tr>
<tr>
<td>(STA247H1, STA248H1)</td>
<td>63%+ in both courses</td>
<td>Major *</td>
</tr>
<tr>
<td>(STA237H1, STA238H1)/</td>
<td>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/ MAT237Y1/ MAT257Y1</td>
<td>Minor *</td>
</tr>
<tr>
<td>(STA247H1, STA248H1)</td>
<td>73%+ in both courses</td>
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<tr>
<td>(STA237H1, STA238H1)/</td>
<td>CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/ MAT237Y1/ MAT257Y1</td>
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*Limited number of spaces available - competitive entry based on average of grades in 2^{nd} year calculus & STA courses above.

If missing any of these course requirements, eligible for Minor only. If MAT133Y1 taken toward Minor, need 70%+. 

See calendar [https://artsci.calendar.utoronto.ca/section/Statistical-Sciences](https://artsci.calendar.utoronto.ca/section/Statistical-Sciences)
Paths to Data Science Specialist - Eligibility at end of 1st year or later (completion of 4.0+ credits)

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

- STA130H1 70%+
- MAT137Y1/MAT157Y1 70%+
- CSC110Y1 70%+
- CSC111H1 77%+

For students admitted to other Arts & Science Year 1 admission categories:

- STA130H1 70%+
- MAT137Y1/MAT157Y1 70%+
- CSC148H1 70%+
- Supplementary application

* Limited number of spaces available - competitive entry based on grades in above courses & supplementary application.

If missing STA130H1: STA261H1 will be used in place of STA130H1 for admission purposes & an additional 300+ level STA course will be needed later in the program to meet the STA130H1 program requirement.

Year 1 DS Specialist requirements: MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1 (MAT240H1 is recommended), STA130H1, (CSC108H1, CSC148H1)/ (CSC110Y1, CSC111H1)

See calendar [https://artsci.calendar.utoronto.ca/section/Statistical-Sciences](https://artsci.calendar.utoronto.ca/section/Statistical-Sciences)
Undergraduate Statistics Opportunities:

- Mentorship program
- Data competitions (e.g., DataFest)
- Independent Summer Statistics Community (IsSC)
- Research opportunities (summer research, courses)
- Arts & Science Internship Program (ASIP)
Contact us at: ug.statistics@utoronto.ca
Visit us at: statistics.utoronto.ca
Book an appointment with us here:
statistics.utoronto.ca/undergraduate-student-resources/office-hours

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Have questions?

Statistical Sciences Union (SSU)

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