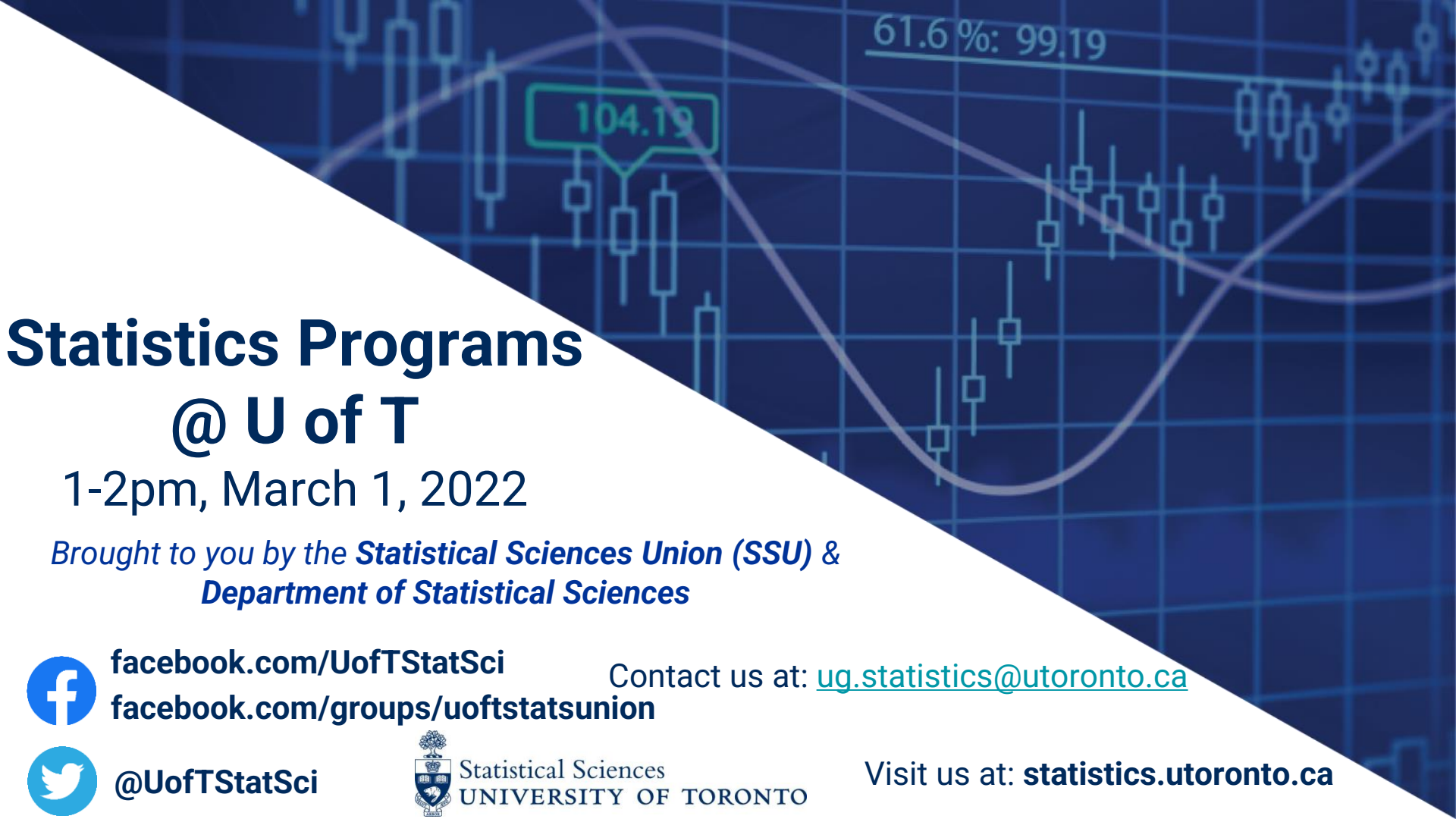

Statistics Programs @ U of T

1-2pm, March 1, 2022

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

facebook.com/UofTStatSci
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Contact us at: ug.statistics@utoronto.ca

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Statistical Sciences
UNIVERSITY OF TORONTO

Visit us at: **statistics.utoronto.ca**

Statistical Sciences
UNIVERSITY OF TORONTO

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!

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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

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Our department at a glance

42+ faculty
(8 teaching-stream)

Founded in 1977

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

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

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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

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

You need:
- **1 Specialist,**
- **2 Majors, or**
- **1 Major + 2 Minors**

Statistics Major (7.0 - 7.5 FCEs)

Statistics Minor (4.0 FCEs)

See website - https://www.artsci.utoronto.ca/current/academics/asip

UNIVERSITY OF TORONTO
FACULTY OF ARTS & SCIENCE

Arts & Science
Internship Program

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 >=12weeks (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.)
- ***PD5: 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

2022 Stats program enrolment

PROGRAM ENROLMENT TIMELINES

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

PROGRAM TYPE	APPLICATION REQUIRED	ENROLMENT PERIOD		
Open	No	March 1, 2022 – September 21, 2022		
Limited	Yes	**First Request Period**		
		Apply between:	**Check results between:**	**Enrol by:**
		March 1, 2022 – April 29, 2022	April 30, 2022 – June 10, 2022	July 8, 2022
Limited	Yes	**Second Request Period**		
		Apply between:	**Check results between:**	**Enrol by:**
		July 9, 2022 – August 23, 2022	August 23, 2022 – September 7, 2022	September 21, 2022

https://sidneysmithcommons.artsci.utoronto.ca/program/important-dates/

2022 ASIP application deadline: July 11/22

Statistics Minor

Statistics Major Specialists:

- Methods & Practice
- Theory & Methods
- Data Science*

Statistics Major Specialists:

- Methods & Practice
- Theory & Methods

*** 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)

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

STA130H1	MAT137Y1/ MAT157Y1 *63%+*	CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/	MAT223H1/ MAT224H1/ MAT240H1	Specialist 1	*
				Specialist 2	*
				Major	*
				Minor	√
STA130H1	(MAT135H1, MAT136H1) *73%+ in both courses*	CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/	MAT223H1/ MAT224H1/ MAT240H1	Specialist 1	*
				Specialist 2	×
				Major	*
				Minor	√
STA130H1	MAT137Y1/ MAT157Y1 *OR* (MAT135H1, MAT136H1)			Specialist 1	×
				Specialist 2	×
				Major	*
				Minor	√

**** Limited number of spaces available- competitive entry based on average of grades in calculus course(s) and STA130.***

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

Paths to a Stats Program - Eligibility at end of 2nd 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)

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

(STA257H1, STA261H1) *63%+ in both courses*	MAT237Y1/ MAT257Y1	CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/	MAT223H1/ MAT224H1/ MAT240H1	Specialist 1 * Specialist 2 * Major * Minor √
63%+ in both courses (STA257H1, STA261H1) *OR* *73%+ in both courses* (STA237H1, STA238H1)/ (STA247H1, STA248H1)	MAT235Y1/ MAT237Y1/ MAT257Y1	CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/	MAT223H1/ MAT224H1/ MAT240H1	Specialist 1 * Specialist 2 × Major * Minor √
(STA257H1, STA261H1) *OR* (STA237H1, STA238H1)/ (STA247H1, STA248H1)	MAT235Y1/ MAT237Y1/ MAT257Y1	CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1/	MAT223H1/ MAT224H1/ MAT240H1	Specialist 1 × Specialist 2 × Major * Minor √

**** Limited number of spaces available- competitive entry based on average of grades in 2nd year calculus & STA courses above.***

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

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

Statistical Sciences
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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)

Statistical Sciences
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Have questions?

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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Statistical Sciences Union (SSU)

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