

ADVISING FORM: IAS Honors with Mathematics and Statistics Major/Minor Concentration

OVERALL REQUIREMENTS FOR MAJORS AND MINORS

Total Number of Courses: 40 courses/120 credits

(Minimum of courses from the Faculty of Science: 15)

(Minimum of courses from the Faculty of Arts, Humanities and Social Science: 15)

Minimum Major GPA to remain in the program: 70%

Overall GPA Requirement: 70%

Arts and Sciences Core Courses (16 courses/48 credits)

- A. SIX Core ARSC and PHIL courses (ARSC 1000, PHIL 1620, ARSC 3010, ARSC 3100, ARSC 4100, ARSC 4210)
- B. Choice of Intro. Ethics (PHIL 2210), Ethics of Life, Death, Healthcare (PHIL 2250), **OR** Environmental Ethics (PHIL 2270)
- C. One Core Humanities/Social Science elective (from list for Core (B))
- D. Differential Calculus (MATH-1720) **OR** Functions and Differential Calculus (MATH 1760)\*
- E. Statistics (STAT-2910)
- F. Four 1000 level science intro courses (see science pairs below)
- G. One two semester undergraduate research course (like ARSC 4990A/B)

REQUIREMENTS FOR MAJOR MATHEMATICS & STATISTICS CONCENTRATION (12 courses/36 credits)

- A. Six Mathematics core courses (MATH-1020, MATH-1250, MATH-2250, MATH-2251, MATH-2780, MATH-2790)
- B. Two Statistics core courses (STAT-2920, STAT-2950)
- C. Four of the following courses: (MATH-3160, MATH-3200, MATH-3270, MATH-3580, MATH-3581, MATH-3590, STAT-3960)

REQUIREMENTS FOR MINOR MATHEMATICS & STATISTICS CONCENTRATION (6 courses/18 credits)

- A. Five Mathematics core courses (MATH-1020, MATH-1250, MATH-2780, MATH-2790, MATH-3590)
- B. One Statistics core course (STAT-2920)

SUMMARY OF COURSES REQUIRED FOR DEGREE

Category	Course Codes			Credits	
Arts and Science Requirements (16 Courses)	Core Courses (A)	<input type="checkbox"/> ARSC-1000	<input type="checkbox"/> ARSC-3010	<input type="checkbox"/> ARSC-4100	18
		<input type="checkbox"/> PHIL-1620	<input type="checkbox"/> ARSC-3100	<input type="checkbox"/> ARSC-4210	
	Ethics (Choose 1)	<input type="checkbox"/> PHIL-2210 <b>OR</b>	<input type="checkbox"/> PHIL-2250 <b>OR</b>	<input type="checkbox"/> PHIL-2270	3
	Core Courses (B)  (ONLY ONE)	<input type="checkbox"/> GRST-1100	<input type="checkbox"/> HIST-1140	<input type="checkbox"/> INCS-2020	3
		<input type="checkbox"/> GRST-1200	<input type="checkbox"/> PHIL-1100	<input type="checkbox"/> INCS-2030	
		<input type="checkbox"/> HIST-1130	<input type="checkbox"/> POLS-2510	<input type="checkbox"/> INCE-2200	
	Calculus (choose 1)	<input type="checkbox"/> <b>MATH-1720</b>	<b>OR</b>	<input type="checkbox"/> MATH-1760	3
	Statistics	<input type="checkbox"/> STAT-2910			3
Two Science Pairs	<input type="checkbox"/> <b>MATH-1720</b>	<input type="checkbox"/> COMP-1400**	ECON-1100***	12	
	<input type="checkbox"/> MATH-1730	<input type="checkbox"/> COMP-1410**	ECON-1110***		
Undergraduate Research ARSC Courses <b>OR</b> FAHSS Concentration	<input type="checkbox"/> ARSC-4990A	<b>OR</b>	<i>Your other discipline may also offer a thesis option</i>	6	
	<input type="checkbox"/> ARSC-4990B				
<b>Arts and Science Total Credits</b>				<b>48</b>	

\* Prerequisite for MATH 1720 is MCV4U, Ontario Grade 12 Calculus and Vectors AND MHF4U, Ontario Grade 12 Advanced Functions

\*Prerequisite for MATH 1760 is ONLY MHF4U Ontario Grade 12 Advanced Functions.

\*\*Recommended

\*\*\*Recommended if interested in pursuing finance

**Bachelor of Interdisciplinary Arts and Science**

**2020/2021**

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Category	Course Codes			Credits	
Mathematics & Statistics Major Requirements (12 courses)	SIX Mathematics core courses	<input type="checkbox"/> MATH-1020 <input type="checkbox"/> MATH-2251	<input type="checkbox"/> MATH-1250 <input type="checkbox"/> MATH-2780	MATH-2250 MATH-2790	<b>18</b>
	TWO Statistics core courses	<input type="checkbox"/> STAT-2920	<input type="checkbox"/> STAT-2950		<b>6</b>
	FOUR of the following courses:	<input type="checkbox"/> MATH-3160 <input type="checkbox"/> MATH-3580 <input type="checkbox"/> STAT-3960	<input type="checkbox"/> MATH-3200 <input type="checkbox"/> MATH-3581	<input type="checkbox"/> MATH-3270 <input type="checkbox"/> MATH-3590	<b>12</b>
<b>Mathematics &amp; Statistics Major Concentration Total Credits</b>				<b>36</b>	

Category	Course Codes			Credits	
Mathematics & Statistics Minor Requirements (6 courses)	FIVE Mathematics core courses	<input type="checkbox"/> MATH-1020 <input type="checkbox"/> MATH-2790	<input type="checkbox"/> MATH-1250 <input type="checkbox"/> MATH-3590	MATH-2780	<b>15</b>
	ONE Statistics core course	<input type="checkbox"/> STAT-2920			<b>3</b>
	<b>Mathematics &amp; Statistics Minor Concentration Total Credits</b>				<b>18</b>

**ARSC WITH A MATHEMATICS & STATISTICS MAJOR REQUIRED COURSES BY YEAR**

This advising sheet does not include the required courses for your other major, minor, or double minor. Make sure to consult the advising sheets for the other disciplines you are studying

For your next step, you must create a master course of study individualized to your unique combination of disciplines. You may utilize the blank form available on the program website.

**1000 Level Courses**

___ ARSC-1000	___ <b>MATH-1720</b>	___ Science Pair course A	___ <b>MATH-17</b> ___
___ PHIL-1620	___ MATH-1730	___ Science Pair course B	___ ARSC Core B
___ MATH-1020	___ MATH-1250		

<b>REMINDERS:</b>	Minimum of courses from the Faculty of Science: 15	
	Minimum of courses from the Faculty of Arts, Humanities and Social Science: 15	
	Minimum Major GPA to remain in the program: 70%	Overall GPA Requirement: 70%