

ADVISING FORM: IAS Honors with Chemistry 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 for Majors; Minors may choose SOSC-2500 instead)
- 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 CHEMISTRY CONCENTRATION (12 courses/36 credits)

- A. Seven Chemistry Core Courses (CHEM-2200, CHEM-2300, CHEM-2310, CHEM-2400, CHEM-2500, CHEM-2510)
- B. One Biochemistry course (BIOC-2010)
- C. Four of the following courses: CHEM-3210, CHEM-3300, CHEM-3310, CHEM-3400, CHEM-3500, CHEM-371C

REQUIREMENTS FOR MINOR CHEMISTRY CONCENTRATION (6 courses/18 credits)

- A. Two of the following courses: CHEM-2300, CHEM-2400, CHEM-2500
  - B. Four of the following courses: CHEM-2200, CHEM-2310, CHEM-3210, CHEM-2410, CHEM-251C
- OR**
- A. Two of the following courses: CHEM-2300, CHEM-2400, CHEM-2500
  - B. Two of the following courses: CHEM-2200, CHEM-2310, CHEM-3210, CHEM-2410, CHEM-251C
  - C. Two CHEM-3XXX courses

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 <input type="checkbox"/> PHIL-1620 <input type="checkbox"/> ARSC-3100 <input type="checkbox"/> ARSC-4210		18
	Ethics ( <b>Choose 1</b> )	<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) <b>(ONLY ONE)</b>	<input type="checkbox"/> GRST-1100 <input type="checkbox"/> HIST-1140 <input type="checkbox"/> INCS-2020 <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		3
	Calculus ( <b>choose 1</b> )	<input type="checkbox"/> MATH-1720 <b>OR</b> <input type="checkbox"/> MATH-1760		3
	Statistics	<input type="checkbox"/> STAT-2910 <b>OR</b> <input type="checkbox"/> SOSC-2500		3
	Two Science Pairs	<input type="checkbox"/> PHYS-1400** <input type="checkbox"/> CHEM-1100 <input type="checkbox"/> PHYS-1410** <input type="checkbox"/> CHEM-1110		12
	Undergraduate Research ARSC <b>OR</b> Chemistry Courses <b>OR</b> FAHSS Concentration	<input type="checkbox"/> ARSC-4990A <b>OR</b> <input type="checkbox"/> CHEM-4900A <b>OR</b> <input type="checkbox"/> ARSC-4990B <input type="checkbox"/> CHEM-4900B	<i>Your other discipline may also offer a thesis option</i>	6
	<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.

\*\*Strongly recommended

# Bachelor of Interdisciplinary Arts and Science

2020/2021

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Category	Course Codes	Credits
Chemistry Major Requirements (12 courses)	Core Courses <input type="checkbox"/> CHEM-2200 <input type="checkbox"/> CHEM-2300 <input type="checkbox"/> CHEM-2310 <input type="checkbox"/> CHEM-2400 <input type="checkbox"/> CHEM-2410 <input type="checkbox"/> CHEM-2500 <input type="checkbox"/> CHEM-2510	<b>21</b>
	ONE Biochemistry course <input type="checkbox"/> BIOC-2010	<b>3</b>
	FOUR of the following courses: <input type="checkbox"/> CHEM-3210 <input type="checkbox"/> CHEM-3300 <input type="checkbox"/> CHEM-3310 <input type="checkbox"/> CHEM-3400 <input type="checkbox"/> CHEM-3500 <input type="checkbox"/> CHEM-3710	<b>12</b>
	<b>Chemistry Major Concentration Total Credits</b>	

Category	Course Codes	Credits	
Chemistry Minor Requirements (6 courses)	TWO of the following courses: <input type="checkbox"/> CHEM-2300 <input type="checkbox"/> CHEM-2400 <input type="checkbox"/> CHEM-2500	<b>6</b>	
	FOUR of the following courses: <input type="checkbox"/> CHEM-2200 <input type="checkbox"/> CHEM-2310 <input type="checkbox"/> CHEM-3210 <input type="checkbox"/> CHEM-2410 <input type="checkbox"/> CHEM-2510	<b>12</b>	
	<b>Chemistry Minor Concentration Total Credits</b>		<b>18</b>
	<u>RU</u>		
	TWO of the following courses: <input type="checkbox"/> CHEM-2300 <input type="checkbox"/> CHEM-2400 <input type="checkbox"/> CHEM-2500	<b>6</b>	
	TWO of the following courses: <input type="checkbox"/> CHEM-2200 <input type="checkbox"/> CHEM-2310 <input type="checkbox"/> CHEM-3210 <input type="checkbox"/> CHEM-2410 <input type="checkbox"/> CHEM-2510	<b>6</b>	
	TWO CHEM-3XXX courses <input type="checkbox"/> CHEM-3____ <input type="checkbox"/> CHEM-3____ <input type="checkbox"/> CHEM-3____	<b>6</b>	
	<b>Chemistry Minor Concentration Total Credits</b>		<b>18</b>

### ARSC WITH A CHEMISTRY 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                       PHYS-1400\*                       CHEM-1100                       MATH-17\_\_\_\_  
 PHIL-1620                       PHYS-1410\*                       CHEM-1110                       ARSC Core B

**REMINDERS:**    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%

**NOTES:**    \*Strongly recommended