

ADVISING FORM: IAS Honors with Biomedical Sciences Major/Minor Concentration

OVERALL REQUIREMENTS FOR MAJORS AND MINORS

Total Number of Courses: 40 courses/120 credits

(Minimum of courses from the Faculty of Arts, Humanities and Social Science: 14)

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 Biomedical Majors; Minors may choose SOSC-2500 instead)
- F. Four 1000 level science courses (BIOL and CHEM intro courses required for majors and minors)
- G. One two semester undergraduate research course (usually BIOM 4904 A/B or ARSC 4990 A/B)

REQUIREMENTS FOR MAJOR BIOMEDICAL SCIENCES CONCENTRATION (12 courses/36 credits)

- A. SIX Core BIOM and BIOL Courses (BIOL-2040, BIOL-2071, BIOL-2111, BIOM-2131, BIOM-3500, BIOM-3530)
- B. Introductory Organic Chemistry (CHEM-2300) **AND** Organic Chemistry of Biomolecules (BIOC-2010)
- C. TWO additional 2000 level or higher Biomedical Sciences courses (BIOM). May include BIOL-2480.
- D. TWO 4000 level Biomedical Sciences courses (BIOM). May include BIOL-4450, BIOL-4481.

REQUIREMENTS FOR MINOR BIOMEDICAL SCIENCES CONCENTRATION (6 courses/18 credits)

- A. FOUR Core BIOM and BIOL Courses (BIOL-2111, BIOM-2131, BIOM-3500, BIOM-3530)
- B. TWO additional 2000 level or higher Biomedical Sciences courses (BIOM). May include BIOL-2040, BIOL-2071, BIOL-2480, BIOL-4450. BIOL-4481.

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 OR	<input type="checkbox"/> PHIL-2250 OR	<input type="checkbox"/> PHIL-2270	3
	Core Courses (B)	<input type="checkbox"/> GRST-1100	<input type="checkbox"/> HIST-1140	<input type="checkbox"/> INCS-2020	3
	(ONLY ONE)	<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"/> MATH-1720	OR	<input type="checkbox"/> MATH-1760	3
	Statistics	<input type="checkbox"/> STAT-2910	OR	<input type="checkbox"/> SOSC-2500	3
Two Science Pairs	<input type="checkbox"/> BIOL-1110	<input type="checkbox"/> CHEM-1100		12	
	<input type="checkbox"/> BIOL-1111	<input type="checkbox"/> CHEM-1111			
Undergraduate Research:	<input type="checkbox"/> ARSC-4990A	OR	<input type="checkbox"/> BIOM-4904A	6	
BIOM OR ARSC Course	<input type="checkbox"/> ARSC-4990B		<input type="checkbox"/> BIOM-4904B		
Arts and Science Total Credits				48	

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

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

	Category	Course Codes	Credits
Biomedical Sciences Major Concentration Requirements (12 courses)	Core Courses: Human Physiology I, Intro Microbiology & Techniques, Genetics, Intro Molecular Biology, Molecular Cell Biology, Advanced Cell Biology	<input type="checkbox"/> BIOL-2040 <input type="checkbox"/> BIOL-2071 <input type="checkbox"/> BIOL-2111 <input type="checkbox"/> BIOM-2131 <input type="checkbox"/> BIOM-3500 <input type="checkbox"/> BIOM-3530	18
	Introductory Organic Chemistry AND Organic Chemistry of Biomolecules	<input type="checkbox"/> CHEM-2300 <input type="checkbox"/> BIOC-2010	6
	TWO 2000 level or higher BIOM courses *Exception below	<input type="checkbox"/> BIOM-____ <input type="checkbox"/> BIOM-____	6
	TWO 4000 level BIOM course **Exceptions below	<input type="checkbox"/> BIOM-4____ <input type="checkbox"/> BIOM-4____	6
	Biomedical Sciences Major Concentration Total Credits		

* Additional 2000 level or higher elective may include BIOL-248C

** Additional 4000 level elective may include BIOL-4450, and BIOL-4481

	Category	Course Codes	Credits
Biomedical Sciences Minor Concentration Requirements (6 courses)	Core Courses: Genetics, Intro Molecular Biology, Molecular Cell Biology, Advanced Cell Biology	<input type="checkbox"/> BIOL-2111 <input type="checkbox"/> BIOM-2131 <input type="checkbox"/> BIOM-3500 <input type="checkbox"/> BIOM-3530	12
	TWO additional 2000 level or higher BIOM Course *Exceptions below	<input type="checkbox"/> BIOM-____ <input type="checkbox"/> BIOM-____	6
	Biomedical Sciences Minor Concentration Total Credits		

* Additional courses may include BIOL-2040, BIOL-2071, BIOL-2480, BIOL-4450, and BIOL-4481.

**REQUIRED COURSES BY YEAR
Bachelor of Interdisciplinary Arts and Sciences
WITH A BIOMEDICAL SCIENCES MAJOR CONCENTRATION**

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

<input type="checkbox"/> ARSC-1000	<input type="checkbox"/> BIOL-1101	<input type="checkbox"/> CHEM-1100	MATH-1720 OR MATH-1760
<input type="checkbox"/> PHIL-1620	<input type="checkbox"/> BIOL-1111	<input type="checkbox"/> CHEM-1110	
<input type="checkbox"/> ARSC Core B			

2000 Level Courses

<input type="checkbox"/> BIOM-2040	<input type="checkbox"/> ARSC-2010	<input type="checkbox"/> STAT-2131
<input type="checkbox"/> BIOM-2071	<input type="checkbox"/> PHIL-2210	<input type="checkbox"/> BIOM-2____/3____
<input type="checkbox"/> BIOL-2111	<input type="checkbox"/> CHEM-2300	<input type="checkbox"/> BIOM-2____/3____
<input type="checkbox"/> BIOM-2131	<input type="checkbox"/> BIOC-2010	<u>Note the BIOL classes that can be used to fulfill electives.</u>

3000 Level Courses

<input type="checkbox"/> ARSC-3010	<input type="checkbox"/> BIOM-3500
<input type="checkbox"/> ARSC-3100	<input type="checkbox"/> BIOM-3530

4000 Level Courses

<input type="checkbox"/> ARSC-4100	<input type="checkbox"/> BIOM-4____	BIOM-4904 A OR ARSC-4990 A BIOM-4904 B ARSC-4990 B
<input type="checkbox"/> ARSC-4210	<input type="checkbox"/> BIOM-4____	

REMINDEERS:

Minimum of courses from the Faculty of Arts, Humanities and Social Science: 14
Minimum Major GPA to remain in the program: 70%

Overall GPA Requirement: 70%