Honours Biochemistry/Biotechnology Specialization Program – starting Fall 2020

Please note: this table represents one of multiple suitable routes through the Hons Biochemistry academic plan, and is adapted from the official resource for degree requirements, the UWaterloo Undergraduate Calendar: http://ugradcalendar.uwaterloo.ca/group/uWaterloo-Faculty-of-Science

Total Units: 22

1A	1B	2A	2B	3A	3B	4A	4B
BIOL	BIOL 239	BIOL	BIOL 241	CHEM 331	BIOL 331	BIOL 439	BIOL 432
130/130L	(0.5 unit)	240/240L	(0.5 unit)	(0.5 unit)	(0.5 unit)	(0.5 unit)	(0.5 unit)
(0.75 unit)		(0.75 unit)					
CHEM	CHEM	BIOL 309	CHEM	STAT 202 or	CHEM 212	BIOL 443	Program
121/121L	125/125L	(0.5 unit)	233/233L	MATH 228	(0.5 unit)	(0.5 unit)	Elective
(0.75 unit)	(0.75 unit)		(0.75 unit)	(0.5 unit)			(0.5 unit)
MATH 127	CHEM 140	CHEM 200	CHEM 254	BIOL 342	CHEM 335L	Program	Program
(0.5 unit)	(0.5 unit)	(0.5 unit)	(0.5 unit)	(0.5 unit)	(0.5 unit)	Elective	Elective
						(0.5 unit)	(0.5 unit)
ENGL 193/	MATH 128	CHEM	CHEM	BIOL 354	CHEM 357	Program	Elective
SPCOM 193	(0.5 unit)	220/220L	265/265L	(0.5 unit)	(0.5 unit)	Elective	(0.5 unit)
(0.5 unit)		(0.75 unit)	(0.75 unit)			(0.5 unit)	
PHYS 111 or	PHYS 112 or	CHEM 264	² CHEM 224L	Elective	⁴ Program	Elective	Elective
121	122	(0.5 unit)	(0.5 unit)	(0.5 unit)	Elective	(0.5 unit)	(0.5 unit)
(0.5 unit)	(0.5 unit)	·			(0.5 unit)		
¹ PHYS 111L			³ {CHEM 212}		⁵CHEM 360L		
(0.25 unit)					(0.5 unit)		

¹if taking for 0.25 Lab Unit Credit (other possibilities for this credit incl PHYS 121L, BIOL 373L, CHEM 250L, CHEM 313L)

Program Electives: in years 3 & 4, a total of 2.5 elective units (i.e., 5 courses) are to be chosen from Lists A and B. A minimum of 1.5 units (i.e., 3 courses) must be selected from List A. At least 1.5 units (i.e., 3 courses) must be BIOL and at least 1.0 units (i.e., 2 courses) must be CHEM.

List A: BIOL 308, BIOL 335L, BIOL 341, BIOL 365, BIOL 382, BIOL 428, BIOL 431, BIOL 433, BIOL 434, BIOL 438, BIOL 441, BIOL 465, BIOL 469, BIOL 483, BIOL 486, BIOL 499A, BIOL 499B; CHEM 224L, CHEM 360, CHEM 360L, CHEM 381, CHEM 382L, CHEM 383, CHEM 430, CHEM 432, CHEM 433, CHEM 494A, CHEM 494B

List B: BIOL 303, BIOL 323, BIOL 345, BIOL 359, BIOL 370, BIOL 371, BIOL 373, BIOL 442, BIOL 444, BIOL 447, BIOL 448, BIOL 472, BIOL 473, BIOL 477L, BIOL 484; CHEM 209, CHEM 221, CHEM 310, CHEM 313, CHEM 323, CHEM 400, CHEM 404, CHEM 464

Electives: 2.0 units (i.e., 4 courses) to be chosen from any 0.5 unit lecture or lab courses

<u>If studying in the co-op stream</u>, your 3rd year courses, due to course availability, should be taken as follows: **3A (Winter term):** BIOL 331, CHEM 212, CHEM 357, Program Elective (0.5 unit), 0.5 unit Lab Credit (if choosing CHEM 360L)

3B (Fall term): BIOL 342, BIOL 354, CHEM 331, CHEM 335L, STAT 202 (or MATH 228), Elective (0.5 unit) {could move Elective to 3A, especially if CHEM 212 was completed in 2B}

²if taking for 0.5 Lab Unit Credit If taken for the 0.5 lab credit it does not count as a program elective

³if planning to take CHEM 360L in 3B for 0.5 Lab Unit Credit, consider taking CHEM 212 here to lighten 3B load ⁴this must be CHEM 360 if taking CHEM 360L for 0.5 Lab Unit Credit (see ⁵)

⁵if taking for 0.5 unit Lab Unit Credit; note CHEM 360 is a co-requisite for CHEM 360L (& vice versa) If taken for the 0.5 lab credit it does not count as a program electivl