

COMBINED HONOURS: COMPUTER SCIENCE & BIOLOGY**First & Second Year:**

First Year (36 to 38 credits)	☐ BIOL 121	☐ CHEMISTRY 121 & 123	☐ CPSC 111	<u>Two of MATH:</u> ☐ 100, 102, 104, 120, 180, or 184	☐ ENGL (6 credits of 100 level English)
	☐ BIOL 140	☐ Elective (3)	☐ CPSC 121	☐ 101, 103, 105, 121	- ENGL 112 recommended
Second Year (35 credits)	☐ BIOL 200	☐ CPSC 211	☐ CHEM 233	☐ MATH 200	☐ Arts Elective (3)
	☐ BIOL 201	☐ CPSC 213	☐ CHEM 235	☐ STAT 200 or BIOL 300	
	☐ BIOL 240	☐ CPSC 221	☐ CHEM 205		

Registration Notes for 1st & 2nd year Biology:

1. BIOL 112, 121, and 140 are prerequisites to the Major or Honours program options in the Biology Program. Students who have completed Biology 12 may enter any of these courses directly. Students with Biology 11 may enter BIOL 112 if they have Chemistry 12; BIOL 112 is acceptable as prerequisite for BIOL 121. Students without high school biology must take BIOL 111 before registering in BIOL 112, 121, and 140.
2. One of CHEM 235, CPSC 213, or MATH 200 can be deferred to third year.
3. Three credits of first-year English courses may be deferred to second year.
4. CHEM 203 and 204 are also acceptable instead of CHEM 233/235.

Third & Fourth Year:

Third Year (34 credits)	☐ BIOL 334	☐ BIOC 302 or BIOL 336	☐ CPSC 310	☐ STAT 302	☐ CPSC 445	☐ CPSC 349 (0 to 3 credits) - If planning to take CPSC 449
	☐ BIOL 335		☐ CPSC 320	☐ One of CPSC 304, 313, 420, or 421	☐ MICB 405	☐ Arts Elective (3)
Fourth Year (33 to 36 credits)	☐ Life Science Electives 300 level or higher (6 Credits)	☐ Life Science Electives 300 level or higher (6 Credits)	☐ Bioinformatics Electives 300 level or higher (6 Credits)	☐ CPSC Course 300 level or higher (6 Credits)	☐ BIOL 447 (0 to 3 credits) - If taking BIOL 449	☐ BIOL 449 or CPSC 449 (6 credits)
					☐ Arts Elective (6)	

Registration Notes for 3rd & 4th year Biology:

1. Taken in the 4th year; the thesis topic must be related to Bioinformatics. Students intending to take CPSC 449 must take CPSC 349 in their 3rd year
2. Life Science Electives ~ 12 credits chosen from BIOC 302, 402, BIOL 301, 331, 336, 337, 347, 350, 431, 433, 434, 435, and 447
 - It is possible to replace some of the Life Science Electives with another course(s) not on the list, as long as a Biology Program Advisor approves the replacement.
3. Bioinformatics Electives can be any upper level BIOL, BIOC, CPSC, MICB, MATH, or STAT courses numbered 300 or higher
4. BIOL 449 – Submit BIOL 449 Honours Thesis Applications to the Biology Office.