

**BIOLOGY PROGRAM WORKSHEETS 2009-10**  
**COMBINED MAJOR: COMPUTER SCIENCE AND BIOLOGY**

**\*\*\*Students must contact a Computer Science Advisor for entry into this program.\*\*\***

**First & Second Year:**

First Year (36 to 37 credits)	<input type="checkbox"/> BIOL 112  <input type="checkbox"/> BIOL 121 & 140	<input type="checkbox"/> CHEM 121 & 123	<input type="checkbox"/> CPSC 111  <input type="checkbox"/> CPSC 121	<b><u>Two of MATH</u></b> <input type="checkbox"/> 100, 102, 104, 120, 180, or 184 <input type="checkbox"/> 101, 103, 105, 121	<input type="checkbox"/> ENGL (6 credits of 100 level English)  -ENGL 112 recommended
Second Year (32 credits)	<input type="checkbox"/> BIOL 200 <input type="checkbox"/> BIOL 201 <input type="checkbox"/> BIOL240	<input type="checkbox"/> CPSC 211 <input type="checkbox"/> CPSC 213 <input type="checkbox"/> CPSC 221	<input type="checkbox"/> CHEM 233  <input type="checkbox"/> CHEM 235	<input type="checkbox"/> MATH 200 or 221  <input type="checkbox"/> Elective (3) -CHEM 205 is a prereq. for all BIOC courses	Arts Elective (3 credits)

**Registration Notes for 1<sup>st</sup> & 2<sup>nd</sup> 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 Chem 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. Three credits of first-year English courses may be deferred to second year.
3. While CPSC 111 and 121 are the minimum CPSC credits required in the first year of the program, students pursuing a Co-op program in CPSC are advised to take CPSC 211 in their first year.

**Third & Fourth Year:**

Third Year (29 to 30 credits)	<b><u>One of BIOL:</u></b> <input type="checkbox"/> 361, 360, 362 <input type="checkbox"/> 351 and 352 <input type="checkbox"/> 361, 363, 364	<input type="checkbox"/> One of BIOL 204, 205, 209, 210  <input type="checkbox"/> BIOL 300 (3)	<input type="checkbox"/> BIOL 301 (3)  <input type="checkbox"/> BIOL 334 (3)	<b><u>One of BIOL:</u></b> <input type="checkbox"/> BIOL 304 <input type="checkbox"/> BIOL 335 <input type="checkbox"/> BIOL 336 <input type="checkbox"/> BIOC 302 (3 Credits)	<input type="checkbox"/> CPSC 310 (3)  <input type="checkbox"/> CPSC 320 (4)
Fourth Year (30 credits)	<input type="checkbox"/> CPSC 313 (3)	<input type="checkbox"/> CPSC Courses 300 level or higher (6 Credits)	<input type="checkbox"/> CPSC Courses 400 level or higher (6 Credits)	<input type="checkbox"/> BIOL Courses 400 level or higher (3 Credits)	Arts Electives (9)  <input type="checkbox"/> Elective (3)

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**Registration Notes for 3<sup>rd</sup> & 4<sup>th</sup> year Biology:**

1. Students **must take** their physiology course sequence (BIOL 351/352, BIOL 361/360/362, or BIOL 361/363/364) in **third year**. If other constraints require that you take these courses in 4<sup>th</sup> year (i.e. Co-op or Exchange) you need to request permission to do so from Dr. Adamson, Director of Biology. Please submit all requests to the Biology Office.
2. Students interested in Bioinformatics can take CPSC 304, 404, 445, MATH/STAT 302, BIOC 402, 404, and MICB 405.
3. It is highly recommended that students take at least 2 organismal courses BIOL 204, 205, 209, and 210. Students interested in phylogenetics should take upper level organismal course.
4. It is strongly recommended students take at least 2 of BIOL 204, 205, 209, or 210.
5. 48 Credits must be upper level credits numbered 300 or higher.

*For further information please see the Biology Program website <http://www.biology.ubc.ca> or visit the Biology Program Office Rm. 2521!!!*