

Program Worksheet: Honours Chemical Biology

First Year	BIOL 112 ____ BIOL 121 ____ BIOL 140 ____ CHEM 111/121 ____ CHEM 113/123 ____ PHYS 101, 107 or 117 ____ Electives [2cr] _____	<i>One of:</i> MATH 100, 102, 104, 110, 120, 180, or 184 ____ <i>One of:</i> MATH 101, 103, 105, or 121 ____	Communication Requirement 3cr of WRDS 150; SCIE 113; any of ENGL 100, 110, 111, 112, 120, or 121; SCIE 300 or CHEM 300; APSC 176; LFS 150; Arts One; ASTU 100, 101: _____ and _____	33cr	
Second Year	BIOL 200 ____ BIOL 201 ____ BIOL 233 ____ Or BIOL 234 ____	<i>One of:</i> BIOL 203 ____ BIOL 204 ____ BIOL 205 ____ BIOL 209 ____ BIOL 210 ____ Electives [2cr] _____	*CHEM 203 ____ CHEM 205 or CHEM 304 ____	CHEM 208 ____ CHEM 211 ____ CHEM 213 ____ CHEM 245 ____	33cr
Third Year	BIOL 230 or 260 ____ BIOL 300 ____ BIOL 336 ____ **BIOL Laboratory Selections <u>Two</u> from list: _____ _____	CHEM 300 ____ CHEM 313 ____ <i>One of:</i> CHEM 315 & 335 or CHEM 325 & 345 _____	CHEM 319 ____ CHEM 329 ____ <i>One of:</i> CHEM 218 ____ CHEM 305 ____ CHEM 311 ____ CHEM 327 ____ CHEM 330 ____	Arts Electives [12cr] _____ _____ _____	33cr
Fourth Year	CHEM and Life Science Electives: CHEM 4xx level or above [6cr] _____ BIOL electives level 3xx and above [6cr] _____ LFSC or CHEM electives [4 to 6cr] _____	BIOL 449 or CHEM 449 ____	Electives [4cr] _____ _____	33cr	
Minimum Total credits = 132cr					

* Students with CHEM 235 and a score of 76% or higher in CHEM 233 may apply for admission to this specialization and be allowed to use CHEM 233 and 235 in place of CHEM 203.

****Biology Laboratory Selections:**

BIOL 326, 331, 337, 340, 341, 342, 351, 352, 363, 404, 409, 437

*****CHEM and Life Science Electives:** May be chosen from 300- and 400-level BIOC, BIOL, CAPS, CHEM, MICB, or MRNE lecture courses, as well as EOSC 470, 474, 475, 478, GEOB 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, and PCTH 305. At least 3 credits must be chosen from BIOL lecture courses and at least 3 credits must be chosen from 400-level CHEM lecture courses. Recommended electives include BIOC 302, 303, 402, 410, BIOL 335, 361, 435, 436, 463, CHEM 411, 413, 435 and MICB 325, 405. (Note: If a student takes CHEM 325 & 345 they are only required to take 4 credits of LFSC or CHEM electives.)

Faculty of Science Elective Requirements (May be any level as long as the upper level requirement of 48 upper level credits including at least 30 credits from the Faculty of Science is satisfied. Also, up to 18 credits of course work in a faculty other than Science or Arts may be taken for credit.)

- **Arts Electives - 12 credits** from the Faculty of Arts.
- **Electives** – May be from any faculty.