

Program Worksheet – Chemical Biology

First Year	BIOL 112 ____ BIOL 121 ____ BIOL 140 ____ CHEM 111/121 ____ CHEM 113/123 ____ PHYS 101, 107 or 117 ____	<i>One of:</i> MATH 100, 102, 104, 110, 120, 180, or 184 ____ <i>One of:</i> MATH 101, 103, 105, or 121 ____ Electives [2cr] _____	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 _____	30cr
Second Year	BIOL 200 ____ BIOL 201, BIOC 202 or 203 ____ BIOL 233 or 234 ____ Elective [2cr] _____	Organismal Courses one from: BIOL 203 ____ BIOL 204 ____ BIOL 205 ____ BIOL 209 ____ BIOL 210 ____	*CHEM 203 ____ CHEM 205 ____ CHEM 211 ____ CHEM 213 ____ CHEM 245 ____	30cr
Third Year	BIOL 230 or 260 ____ BIOL 300 ____ **Biology Lab Selections <u>Two</u> from list: _____ _____	CHEM 208 ____ CHEM 300 ____ CHEM 313 ____ <u>One of</u> CHEM 218, 305, 311, 327 or 330 (3cr): _____	<u>One of either:</u> CHEM 315 and 335 _____ or CHEM 325 and 345 _____ Electives [6cr] _____ _____	60cr
Fourth Year	****CHEM and Life Science Electives [12cr]: BIOL 3xx or 4xx _____ CHEM 4xx _____ _____ _____	BIOL 336 ____ CHEM 445 ____	Arts Electives [12cr] _____ _____ _____	60cr
Minimum Total credits = 120cr				

* 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.