

## Program Worksheet – Chemical Biology

<b>First Year</b>	BIOL 112 ____ BIOL 121 ____ BIOL 140 or 180 ____  CHEM 121 or CHEM 120 & 115 ____ CHEM 123 or CHEM 130 & 135 ____  <i>One of:</i> PHYS 101, 106, 107, 117, 131 ____	<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]: _____	<b>Communication Requirement 3cr of</b> 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: _____	30cr
<b>Second Year</b>	BIOL 200 ____  <i>One of:</i> BIOL 201, BIOC 202 or BIOC 203 ____  BIOL 233 or 234 ____  Elective [2cr] _____	<b>Organismal Courses one from:</b> BIOL 203 ____ BIOL 204 ____ BIOL 205 ____ BIOL 209 ____ BIOL 210 ____	*CHEM 203 or CHEM 223/225 ____  CHEM 205 or CHEM 304 ____  CHEM 211 or CHEM 210/215 ____  CHEM 213 ____ CHEM 245 ____	30cr
<b>Third Year</b>	<i>One of:</i> BIOL 230 or 260 ____  BIOL 300 ____  <i>Two of:</i> BIOL 306, 326, 331, 337, 340, 341, 342, 351, 352, 363, 402, 403, 404, or 437, ____ & ____	CHEM 208 ____ CHEM 300 ____ CHEM 313 ____  <i>One of CHEM 218, 305,            311, 327 or 330 (3cr):</i> _____	<i>One of:</i> CHEM 315/335 ____ or CHEM 325/345 ____  Electives [6cr] _____ _____	60cr
<b>Fourth Year</b>	<b>****CHEM and Life Science Electives</b> [12cr]: BIOL 3xx or 4xx _____ CHEM 4xx _____ _____ _____	BIOL 336 ____  CHEM 445 ____	<b>Arts Electives</b> [12cr] _____ _____ _____ _____	
<b>Minimum Total credits = 120cr</b>				

\* 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.

### \*\*\*CHEM and Life Science Electives:

Chosen from 300- and 400-level BIOC, BIOL, CAPS, CHEM, MICB, or MRNE lecture courses, as well as EOSC 470, 472, 474, 475, 478, ENVR 430, 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, 436, 463, CHEM 411, 413, 435 and MICB 325, 405.

**Faculty of Science Elective Requirements** (May be any level if the upper-level requirement of 48 upper-level credits including at least 30 credits from the Faculty of Science are 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.