

## Program Worksheet – Chemical Biology

<b>First Year</b>	BIOL 112 ____ BIOL 121 ____ BIOL 140 or 180 ____  One of CHEM 111, 121 or 141 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 ____ BIOL 234 ____  <i>One of:</i> BIOL 201, BIOC 202 or BIOC 203 ____  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, 311, 326, 331, 337, 340, 341, 351, 352, 363, 402, 403, 404, or 437, ____ & ____	CHEM 208 ____ CHEM 300 ____ CHEM 313 ____  <u>One of</u> CHEM 218, 305, 311, 327 or 330 (3cr): ____	<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/GEOS 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, and PCTH 305, 325. 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.