Program Worksheet – Chemical Biology

| First Year | 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 ____  
| One of: PHYS 101, 106, 107, 117, 131 ____  | One of: MATH 100, 102, 104, 110, 120, 180, or 184 ____  
| One of: 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:  |
| 30cr |

| Second Year | BIOL 200 ____  
| BIOL 234 ____  
| One of: BIOL 201, BIOC 202 or BIOC 203 ____  
| Elective [2cr] ________  | Organismal Courses one from:  
| 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 |

| Third Year | One of: BIOL 230 or 260 ____  
| BIOL 300 ____  
| Two of: BIOL 306, 311, 326, 331, 337, 340, 341, 351, 352, 363, 402, 403, 404, or 437, ____ & ____  | CHEM 208 ____  
| CHEM 300 ____  
| CHEM 313 ____  
| One of CHEM 218, 305, 311, 327 or 330 (3cr): ____  | One of: CHEM 315/335 ____  
| or CHEM 325/345 ____  
| Electives [6cr] ____  | 60cr |

| Fourth Year | ****CHEM and Life Science Electives [12cr]:  
| BIOL 3xx or 4xx ________  
| CHEM 4xx ________  
| ________  | BIOL 336 ____  
| CHEM 445 ____  | Arts Electives [12cr] ____  
| ____  | ____  
| ____  |

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.

***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, EVNR 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.