### Program Worksheet: Honours Plant Biology

| First Year | BIOL 112 ____
|            | BIOL 121 ____
|            | BIOL 140 or 180 ____
|            | One of CHEM 111, 121, 141 or CHEM 120 & 115 ____
|            | CHEM 123 or CHEM 130 & 135 ____

| One of:    | PHYS 101, 106, 107, 117, 131 ____
|            | One of:    | CPSC 100, 103, 110, 301 or DSCI 100 ____
|            | One of:    | MATH 100, 102, 104, 110, 120, 180, or 184 ____
|            | One of:    | MATH 101, 103, 105, or 121 ____

| Communication Requirement 6cr of WRDS 150; SCIE 113; any of ENGL 100, 110, 111, 112, 120, or 121; SCIE 300 or CHEM 300; APSC 176; LFS 150; FRST 150, Arts One; ASTU 100, 101: | 31cr |

| Second Year | *Biology Fundamentals Courses: |
|            | BIOL 200 ____
|            | BIOL 230 ____
|            | BIOL 234 ____
|            | BIOL 260 ____

| *Organismal Courses: |
| BIOL 209 ____
| BIOL 210 ____

| One of:    | CHEM 233 ____
| One of:    | CHEM 235 ____
| One of:    | CHEM 223 ____
| One of:    | CHEM 225 ____

| Electives [3cr]: |
| __________ |

| 30cr |

| Third Year | BIOL 300 ____
|           | BIOL 347 ____
|           | BIOL 351 ____
|           | BIOL 352 ____

| BIOL 324 ____
| BIOL 336 ____
| BIOL 415 ____

| ***Life Science Selections [9cr]: |

| ***Plant Biology Selections [12cr]: |

| Electives [7cr]: |
| __________ |

| Arts Electives [12cr]: |
| __________ |

| 71cr |

| Fourth Year | BIOL 447 ____
|            | BIOL 449 ____

| Minimum Total Credits = 132cr |

* One Organismal and/or one Fundamentals course can be deferred to the third year.

### ***Life Science Selection:

Life Science selections that count towards the Science credit requirement: Any third- or fourth-year course in BIOC, CAPS, MICB, or MRNE that is open to Life Science majors plus: ENVR 430, EOSC 470, 474, 475, 478, GEOS (or GEOB) 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, PCTH 305, 325. Life Science selections that do not count towards the Science credit requirement: APBI 311, 312, 314, 315, 318, 342, 401, 411, 418, 419, 444, CONS 330, 440, 486, 496, FRST 302, 310, 385, 386, 395, 399, 444, 485, 495. **Note:** Life Science Selections do not include BIOL 300 and 336. Four credits of Biology lab selections are required; additional credits from Biology Lab Selections may count as Life Science Selections [i.e., BIOL 351 (4cr) = 2cr Biology Lab Selections & 2cr Life Science Selections].
**Plant Biology Selections:**

- BIOL 320 - Survey of Algae
- BIOL 321 – Morphology and Evolution of Bryophytes
- BIOL 322 – Structure and Evolution of Ferns and Fern-allies
- BIOL 323 – Structure and Reproduction of Fungi
- BIOL 406 - Plant Ecology I
- BIOL 412 - Phytogeography
- BIOL 416 – Principles of Conservation Biology
- BIOL 418 – Evolutionary Biology
- BIOL 421 - Plant-Microbe Interactions
- BIOL 423 - Structure and Reproduction of Fungi
- BIOL 433 - Plant Genetics
- BIOL 444 - Techniques in Plant Molecular Biology
- BIOL 462 - Ecological Plant Biochemistry

**Note:** MRNE courses may be taken with permission of a biology advisor.

**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 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.