

Program Worksheet: Honours Plant Biology

First Year	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> CPSC 100, 103, 110, 301 or DSCI 100 ____	<i>One of:</i> MATH 100, 102, 104, 120, 180, or 184 ____ <i>One of:</i> 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 260 ____ BIOL 233 or 234 ____	*Organismal Courses: BIOL 209 ____ BIOL 210 ____	<i>One of:</i> CHEM 233 ____ CHEM 235 ____ or CHEM 203 ____ or CHEM 223 ____ CHEM 225 ____	_____ and _____ 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]: _____ _____ _____ _____ Arts Electives [12cr]: _____ _____ _____ _____	Electives [7cr]: _____ _____ _____	71cr
Fourth Year	BIOL 447 ____ BIOL 449 ____	***Life Science Selections [9cr]: _____ _____ _____	****Plant Biology Selections [12cr]: _____ _____ _____ _____	Electives [7cr]: _____ _____ _____	71cr
Minimum Total Credits = 132cr					

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