

## Program Worksheet: Honours Conservation 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> 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 ____	<b>Communication Requirement 6cr 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; FRST 150, Arts One; ASTU 100, 101:  _____ and _____  Electives [4cr]: _____ _____	31cr
<b>Second Year</b>	<b>*Biology Fundamentals Courses:</b> BIOL 200 ____ BIOL 230 ____ BIOL 260 ____  BIOL 233 or 234 ____	<b>*Organismal Courses:</b> <u>One</u> from: BIOL 204 ____ BIOL 205 ____ <u>One</u> from: BIOL 209 ____ BIOL 210 ____ BIOL 320 ____ BIOL 321 ____ BIOL 322 ____ BIOL 324 ____	<i>One of:</i> CHEM 233 ____ CHEM 235 ____ or CHEM 203 ____ or CHEM 223 ____ CHEM 225 ____	_____ and _____  Electives [4cr]: _____ _____	30cr
<b>Third Year</b>	BIOL 300 ____ BIOL 347 ____	BIOL 306 ____ BIOL 336 ____ BIOL 416 ____	<b>***Life Science Selections [9cr]:</b> _____ _____ _____ _____	Arts Electives [12cr]: _____ _____ _____ _____	71cr
<b>Fourth Year</b>	BIOL 447 ____ BIOL 449 ____	<b>**Biology Lab Selections</b> <u>Two</u> from list: _____ _____	<b>****Conservation Biology Selections [12cr]:</b> _____ _____ _____ _____	Electives [10cr]: _____ _____ _____ _____	71cr
<b>Minimum Total Credits = 132cr</b>					

\* One **Organismal** and/or one of BIOL 204, 205, 209, 210 course can be deferred to third year.

**\*\*Biology Laboratory Selections:**

BIOL 326, 331, 337, 340, 341, 342, 351, 352, 363, 402, 403, 404, or 437.

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

### \*\*\*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 for credit 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, 442, 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].

### \*\*\*\*Conservation Biology Selections:

BIOL 301 - Biomathematics

BIOL 310 – Introduction to Animal Behaviour

BIOL 402 - Aquatic Ecology

BIOL 404 - Ecological Methodology

BIOL 406 - Plant Ecology I

BIOL 408 – Principles of Applied Ecology

BIOL 411 - Insect Ecology

BIOL 415 – Evolutionary Processes in Plants

BOL 418 – Evolutionary Ecology

BIOL 434 - Population Genetics

BIOL 462 - Ecological Plant Biochemistry

CONS 200 - Foundations of Conservation

CONS 330 – Conservation Science and Sustainability

CONS 440 - Conservations Policy

CONS 486 – Fish Conservation and Management

FRST 386 – Aquatic Ecosystems and Fish in Forested Watersheds

FRST 395 - Forest Wildlife Ecology and Management

FRST 432 – Molecular Ecology

FRST 495 – Biological Diversity and Forest Management

LAW 387 - Environmental Law

LAW 388 - Environmental Law in Practice

MRNE 430 - Marine Ecology

MRNE 435 – Introduction to Biological Oceanography

EOSC 474 - Marine Pollution

**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.