

## Program Worksheet: Honours Ecology

<b>First Year</b>	BIOL 112 _____ BIOL 140 _____ BIOL 121 _____  CHEM 111/121 _____ CHEM 113/123 _____	<i>One of:</i> PHYS 101, 107, 117 _____  <i>One of:</i> CPSC 100, 103, 110 _____	<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</b> 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:  _____ and _____  Electives [3cr]: _____	31cr
<b>Second Year</b>	<b>*Biology Fundamentals Courses:</b> BIOL 200 _____ BIOL 230 _____ BIOL 260 _____  BIOL 233 _____ OR BIOL 234 _____	<b>*Organismal Courses:</b> <u>One from:</u> BIOL 204 _____ BIOL 205 _____  <u>One from:</u> BIOL 209 _____ BIOL 210 _____	CHEM 233 _____ CHEM 235 _____ or CHEM 203 _____		30cr
<b>Third Year</b>	BIOL 300 _____ BIOL 347 _____	BIOL 306 _____ BIOL 336 _____  BIOL 415 or 418 _____	<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 from list:</u> _____ _____	<b>****Ecology Selections [12cr]:</b> _____ _____ _____	Electives [10cr]: _____ _____ _____	
<b>Minimum Total Credits = 132cr</b>					

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

Note: It is recommended that BIOL 230 be taken in second year; it is prerequisite for a number of Ecology selections.

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

BIOL 326, 331, 337, 340, 341, 342, 351, 352, 363, 404, 409, 437, MRNE 4XX

**NOTE:** MRNE courses may be taken with permission from an advisor

**\*\*\*Life Science Selection:**

Life Science selections that count towards the Science credit requirement: Any third- or fourth-year course in BIOC, BIOL, CAPS, MICB, MRNE, or PHYL that is open to Life Science majors plus: EOSC 470, 471, 474, 475, 476, 478, 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, FRST 302, 310, 385, 386, 395, 399, 420, 444, 485, 495.

**\*\*\*\*Ecology Selections:**

BIOL 310 – Introduction to Animal Behaviour  
BIOL 324 – Introduction to Seed Plant Taxonomy  
BIOL 402 - Aquatic Ecology  
BIOL 404 - Ecological Methodology  
BIOL 406 - Plant Ecology I  
BIOL 408 – Principles of Applied Ecology  
BIOL 409 - Field Course in Ecology  
BIOL 411 - Insect Ecology  
BIOL 412 - Phytogeography  
BIOL 413 - Zoogeography  
BIOL 416 – Principles of Conservation Biology  
BIOL 418 - Evolutionary Ecology  
BIOL 419 - Ecological Parasitology  
BIOL 434 - Population Genetics  
BIOL 445 - Darwin's Fishes  
BIOL 462 - Ecological Plant Biochemistry  
FRST 432 – Molecular Ecology  
MICB 301 – Microbial Ecophysiology  
MRNE 430 - Marine Ecology  
**Note:** MRNE courses with permission of advisor

**Faculty of Science Elective Requirements:**

*(May be any level as long as 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.