# Program Worksheet: Honours Ecology

| 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, 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: _____  
| Electives [3cr]: | 31cr  

| Second Year | *Biology Fundamentals Courses:  
|-------------|-----------------
|            | BIOL 200 _____  
|            | BIOL 230 _____  
|            | BIOL 234 _____  
|            | BIOL 260 _____  
| *Organismal Courses: | One from:  
|            | BIOL 204 _____  
|            | BIOL 205 _____  
| One from:  | BIOL 209 _____  
|            | BIOL 210 _____  
| One of:    | CHEM 233 _____  
|            | CHEM 235 _____  
| or        | CHEM 203 _____  
| or        | CHEM 223 _____  
| Electives [3cr]: | 30cr  

| Third Year | BIOL 300 _____  
|------------|-----------------
|            | BIOL 347 _____  
| BIOL 306 _____  
| BIOL 336 _____  
| BIOL 415 or 418 _____  
| **Life Science Selections [9cr]: | 71cr  

| Fourth Year | BIOL 447 _____  
|------------|-----------------
|            | BIOL 449 _____  
| **Biology Lab Selections Two from list: |  
|            |  
| ***Ecology Selections [12cr]: |  

| Arts Electives [12cr]: |  
| Electives [10cr]: |  

| Minimum Total Credits = 132cr |  

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* One Organismal and/or one Fundamentals course can be deferred to the third year.  
Note: It is recommended that BIOL 230 be taken in second year; it is prerequisite for a few Ecology selections.  

**Biology Laboratory Selections:  
BIOL 311, 326, 331, 337, 340, 341, 351, 352, 363, 402, 403, 404, or 437.  
NOTE: MRNE courses may be taken with permission from 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

**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].

****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 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 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.