## Program Worksheet: Honours Evolutionary Biology

| First Year | BIOL 112 ____  
|           | BIOL 140 ____  
|           | BIOL 121 ____  
|           | CHEM 111/121 ____  
|           | CHEM 113/123 ____  |
| One of: | PHYS 101, 107, 117 ____  |
| One of: | CPSC 100, 103, 110 ____  |
| One of: | MATH 100, 102, 104, 120, 180, or 184 ____  |
| 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; Arts One; ASTU 100, 101: 31cr |

| Second Year | *Biology Fundamentals Courses:  
|             | BIOL 200 ____  
|             | BIOL 230 ____  
|             | BIOL 260 ____  
|             | BIOL 233 ____  
|             | OR  
|             | BIOL 234 ____  |
| *Organismal Courses:  
| Two from: | BIOL 203 ____  
|           | BIOL 204 ____  
|           | BIOL 205 ____  
|           | BIOL 209 ____  
|           | BIOL 210 ____  
|           | MICB 201 ____  |
| One of: | CHEM 233 ____  
| One of: | CHEM 235 ____  
| or | CHEM 203 ____  |
| and |  
| Electives [3cr]: |  |
|  | 30cr |

| Third Year | BIOL 300 ____  
|           | BIOL 347 ____  
|           | BIOL 336 ____  
|           | EOSC 326 ____  |
| **Biology Lab Selections Two from list [4cr]: |  |
| **Life Science Selections [9cr]: |  |
| Two from: | BIOL 415 ____  
|           | BIOL 417 ____  
|           | BIOL 434 ____  |
| ****Evolution Selections [12cr]: |  |
| Two from: | BIOL 417 ____  
|           | BIOL 418 ____  
|           | BIOL 434 ____  |
| Arts Electives [12cr]: |  |
| Electives [7cr]: |  |
|  | 71cr |

| Fourth Year | BIOL 447 ____  
|           | BIOL 449 ____  |
|  |  |
|  | Minimum Total credits = 132cr |

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

**Biology Laboratory Selections:
BIOL 301, 326, 331, 337, 340, 341, 342, 351, 352, 363, 404, 409, 437, 444

Note: MRNE courses with permission of Biology advisor.

Note: BIOL 351 counts as 2 credits Laboratory selection, 2 credits Life Science selection, OR 4 credits Life Science selection
BIOL 352 counts as 2 credits Laboratory selection, 1 credits Life Science selection, OR 3 credits Life Science selection

**Life Science Selection:
****Evolutionary Biology Selections:
BIOL 310 - Introduction to Animal Behaviour
BIOL 320 – Survey of Algae
BIOL 321 – Morphology and Evolution of Bryophytes
BIOL 323 - Structure and Reproduction of Fungi
BIOL 324 – Introduction to Seed Plant Taxonomy
BIOL 326 – Experimental Biology of Invertebrates
BIOL 327 – Introduction to Entomology
BIOL 328 – Introduction to Parasitology
BIOL 332 - Protistology
BIOL 412 - Phytogeography
BIOL 413 - Zoogeography
BIOL 415 - Evolutionary Processes in Plants
BIOL 417 - Phylogenetic Biology
BIOL 418 - Evolutionary Ecology
BIOL 427 - Ornithology and Herpetology
BIOL 428 – Evolutionary Morphology of Marine Invertebrates
BIOL 430 - Genome Evolution
BIOL 434 - Population Genetics
BIOL 465 – Diversity and Evolution of Fishes

Faculty of Science Elective Requirements:
(Many 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.