| First Year | BIOL 112 ___<br>BIOL 140 ___<br>BIOL 121 ___<br>CHEM 111/121 or<br>CHEM 120 & 115 ___<br>CHEM 113/123 or<br>CHEM 130 & 135 ___ | One of:<br>PHYS 101, 106, 107, 117, 131 ___<br>One of:<br>CPS 100, 103, 110, 301 or DSCI 100 ___ | One of:<br>MATH 100, 102, 104, 120, 180, or 184 ___<br>One of:<br>MATH 101, 103, 105, or 121 ___ | Communication Requirement 6cr of<br>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:<br>BIOL 200 ___<br>BIOL 230 ___<br>BIOL 260 ___<br>BIOL 233 ___<br>or<br>BIOL 234 ___ | *Organismal Courses:<br>BIOL 204 ___<br>BIOL 205 ___ | One of:<br>CHEM 233 ___<br>CHEM 235 ___<br>or<br>CHEM 203 ___<br>or<br>CHEM 223 ___<br>CHEM 225 ___ | Electives [3cr]: 30cr |
| Third Year | BIOL 363 ___<br>BIOL 347 ___<br>Two of:<br>BIOL 364, BIOL 370, 371 or 372 ___ | BIOL 300 ___<br>BIOL 336 ___ | **Biology Lab Selections<br>One from list: | **** Animal Biology Selections<br>[12cr]:<br>Electives [8 to 10cr]: 71cr |
| Fourth Year | BIOL 447 ___<br>BIOL 449 ___ | ***Life Science Selections [9cr]:<br>| Arts Electives [12cr]: | Minimum Total Credits = 132 |

*One of BIOL 204, 205 and/or one Fundamentals course can be deferred to third year.

**Biology Laboratory Selections:
One of BIOL 306, 326, 331, 337, 340, 341, 342, 402, 403, 404, or 437
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].

****Animal Biology Selections:
BIOL 310 – Introduction to Animal Behaviour
BIOL 325 – Introduction to Animal Mechanics and Locomotion
BIOL 326 – Experimental Biology of Invertebrates
BIOL 327 – Introduction to Entomology
BIOL 328 – Introductory Parasitology
BIOL 331 – Developmental Biology
BIOL 410 – Current Topics in Animal Behaviour
BIOL 411 - Insect Ecology
BIOL 413 – Zoogeography
BIOL 416 – Principles of Conservation Biology
BIOL 418 – Evolutionary Ecology
BIOL 425 – Biomechanics
BIOL 427 – Ornithology and Herpetology
BIOL 428 – Evolutionary Morphology of Marine Invertebrates
BIOL 450 – Molecular Adaptation of Animals to the Environment
BIOL 454 - Comparative Animal Physiology
BIOL 455 – Comparative Neurobiology
BIOL 456 – Comparative and Molecular Endocrinology
BIOL 457 – Comparative Environmental Physiology
BIOL 458 – Developmental Neurobiology
BIOL 465 – Diversity and Evolution of Fishes

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.