Program Worksheet: Honours Animal Biology

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, or 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:	31cr
Second Year	*Biology Fundamentals Courses: BIOL 200 BIOL 230 BIOL 234 BIOL 260	*Organismal Courses: BIOL 204 BIOL 205	One of: CHEM 233 CHEM 235 or CHEM 203 or CHEM 223 CHEM 225	and Electives [3cr]:	30cr
Third Year	BIOL 363 BIOL 347 <i>Two of:</i> BIOL 364, BIOL 370, 371 or 372	BIOL 300 BIOL 336 **Biology Lab Selections One from list:	**** Animal Biology Selections [12cr]:	Electives [8 to 10cr]:	71 cr
Fourth Year	BIOL 447 BIOL 449	***Life Science Selections [9cr]:	Total Credits = 132		

**Biology Laboratory Selections:

One of BIOL 306, 311, 326, 331, 337, 340, 341, 402, 403, 404, or 437

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.

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

***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 331 Developmental Biology
- BIOL 370 Principles of Muscle Physiology and Energetics
- BIOL 371 Principles of Neurobiology I
- BIOL 372 Principles of Neurobiology II
- 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 451 Comparative Neurobiology
- BIOL 454 Comparative Animal Physiology
- BIOL 456 Comparative and Molecular Endocrinology
- BIOL 457 Comparative Environmental Physiology
- BIOL 458 Developmental Neurobiology
- BIOL 459 Neurobiology of Sensory and Motor Systems
- BIOL 460 Neurobiology of Vision
- BIOL 465 Diversity and Evolution of Fishes
- MRNE Bamfield courses with permission of a Biology Advisor