

## CONSERVATION BIOLOGY: MAJORS

### First & Second Year:

|                                   |  |   |   |   |   |
|-----------------------------------|--|---|---|---|---|
| First Year<br>(34 credits)        | <input type="checkbox"/> BIOL 112<br><br><input type="checkbox"/> BIOL 121 & 140 | <input type="checkbox"/> CHEM 121 & 123<br>or<br><input type="checkbox"/> CHEM 111 & 113  | <input type="checkbox"/> PHYS 101 or 121<br><br><input type="checkbox"/> Electives (3 credits)              | <b><u>Two of MATH:</u></b><br><input type="checkbox"/> 100, 102, 104, 120, 180, or 184<br><input type="checkbox"/> 101, 103, 105, 121 | <input type="checkbox"/> ENGL ( 6 credits<br>of 100 level English)<br><br>- ENGL 112<br>recommended |
| Second Year<br>(31 to 32 credits) | <input type="checkbox"/> BIOL 200<br><br><input type="checkbox"/> BIOL 201       | <b><u>TWO of:</u></b><br><input type="checkbox"/> BIOL 204 or 205<br><input type="checkbox"/> BIOL 209, 210, 320, 321, 322, 323, or 324 | <input type="checkbox"/> CHEM 233<br><input type="checkbox"/> CHEM 235<br><input type="checkbox"/> CHEM 205 | <input type="checkbox"/> Electives (6 credits)<br><br>-BIOL 204, 205, 209 or 210 320,321, 322, 323, or 324 recommended                | <input type="checkbox"/> Arts Electives<br>(6 credits)  |

### Registration Notes for 1<sup>st</sup> & 2<sup>nd</sup> year Biology:

1. BIOL 112,121, and 140 are prerequisites to the Major or Honours program options in the Biology Program. Students who have completed Biology 12 may enter into these courses directly. Students with Biology 11 may enter BIOL 112 if they have Chem 12. BIOL 112 is acceptable as the sole prerequisite for BIOL 121. Students without high school biology must take BIOL 111 before registering in BIOL 112,121, and 140.
2. Students without Physics 12 must replace elective with PHYS 100 (prior to PHYS 101).
3. Three credits of first-year English courses may be deferred to second year.

### Third & Fourth Year:

|                             |  |   |   |  |   |
|-----------------------------|--|---|---|--|---|
| Third Year<br>(31 credits)  | <b><u>One of BIOL:</u></b><br><input type="checkbox"/> 351 and CONS Elective (3 credits)<br><input type="checkbox"/> 353 | <input type="checkbox"/> BIOL 334<br><br><input type="checkbox"/> BIOL 336            | <input type="checkbox"/> BIOL 300<br><br><input type="checkbox"/> BIOL 301                        | <input type="checkbox"/> BIOL 302 (3)<br><br><input type="checkbox"/> BIOL 303 (3) | <input type="checkbox"/> Arts Electives<br>(6 credits)    |
| Fourth Year<br>(30 credits) | <input type="checkbox"/> Systematics or Evolution Electives<br>300 level or higher<br>(6 Credits)                        | <input type="checkbox"/> Conservation Electives<br>300 level or higher<br>(6 Credits) | <input type="checkbox"/> BIOL 416<br><br><input type="checkbox"/> Breadth Elective<br>(3 credits) | <input type="checkbox"/> Electives (6 credits)                                     | <input type="checkbox"/> Breadth Electives<br>(6 credits) |

### Registration Notes for 3<sup>rd</sup> & 4<sup>th</sup> year Biology:

1. Students **must take** their physiology course (BIOL 350,351/352, or 353) **in third year**. If other constraints require that you take this course in 4<sup>th</sup> year you need the permission of your program advisor and let the Biology Office know.
2. Students are encouraged to undertake 3 to 6 credits of **Directed Studies** (BIOL 448). Three credit of BIOL 448 may be counted as a Biology Program Elective with the permission of either their supervisor (if in Botany/Zoology) or the Conservation Biology Program Advisor.
3. Breadth Electives – 9 credits must be in Arts or in Science outside the field of major
4. Conservation Electives ~ See list on reverse side
  - All courses listed in Animal Science (ANSC) 300 level or higher, except ANSC 313 or 314 are for credit within the Faculty of Science.

*For further information please see the Biology Program website <http://www.zoology.ubc.ca/bpg/index.html> or visit the Biology Program Office Rm. 2521!!!*

## **Conservation Biology Program Electives**

Some courses listed here may not be available in the current year. Please check the UBC Course Schedule website for current course availability <http://courses.students.ubc.ca!!!>

### **Conservation Electives**

BIOL 305 - Biological Oceanography  
BIOL 310 - Animal Behaviour  
BIOL 343 - Plants & Peoples  
BIOL 402 - Aquatic Ecology  
BIOL 403 - Biological Oceanographic Methods  
BIOL 404 - Ecological Methodology  
BIOL 406 - Plant Ecology I  
BIOL 407 - Plant Ecology II  
BIOL 408 - Applied Ecology  
BIOL 409 - Field Course  
BIOL 410 - Current Topics in Animal Behaviour  
BIOL 411 - Insect Ecology  
BIOL 419 - Ecological Parasitology  
BIOL 434 - Population Genetics  
BIOL 448 - Directed Studies  
BIOL 462 - Ecological Plant Biochemistry  
CONS 200 - Foundations of Conservation  
CONS 430 - Problem Wildlife  
CONS 440 - Conservations Policy  
FRST 385 - Watershed Hydrology  
FRST 395 - Forest Wildlife Ecology  
FRST 420 - Forest Environment Management  
FRST 485 - Forest Watershed Management  
FRST 495 - Biodiversity & Forest Management  
GEOG 300 - Weather & Climate II  
GEOG 310 - Environment & Resources  
GEOG 315 - Environmental Inventory  
GEOG 370 - Introduction to Geographic Information Systems  
GEOG 470 - Advanced Geographic Information Systems  
LAW 356 - Natural Resources  
LAW 358 - Forest Law  
LAW 387 - Canadian Environmental Law  
LAW 388 - Environmental Law  
MICB 300 - Microbial Ecology  
MRNE 430 - Marine Ecology

MRNE 435 - Biological Oceanography  
MRNE 445 - Marine Mammals  
MRNE 446 - Comparative Ethology  
EOSC 474 - Marine Pollution (OCGY 410)  
EOSC 478 - Introduction to Fisheries Science (OCGY 420)  
PLNT 338 - Weed Science  
PLNT 404 - Ecology of Range Plant Comm.  
SOIL 314 - Biometeriology  
SOIL 403 - Forest Soils  
SOIL 433 - Management and Conservation  
SOIL 435 - Soil Contamination and Remediation

### **Evolution Electives**

BIOL 310 - Introduction to Animal Behaviour  
BIOL 412 - Phytogeography  
BIOL 415 - Evolutionary Processes in Plants  
BIOL 418 - Evolutionary Ecology  
BIOL 430 - Genome Evolution  
BIOL 434 - Population Genetics  
BIOL 445 - Darwin's Fishes

### **Systematics Electives**

BIOL 317 - Weed Science (AGRO 328)  
BIOL 320 - Algae  
BIOL 321 - Mosses  
BIOL 322 - Ferns  
BIOL 323 - Fungi  
BIOL 324 - Seed Plants  
BIOL 326 - Invertebrates  
BIOL 327 - Entomology  
BIOL 328 - Parasitology  
BIOL 332 - Protists  
BIOL 427 - Terrestrial Vertebrates  
BIOL 465 - Fishes  
GEOG 307 - Biogeography and Global Change  
MICB 300 - Microbial Ecology