



VANCOUVER ISLAND  
UNIVERSITY

Bachelor of Science, Major in Biology, Minor in Aquaculture  
Program Grid

**Note:** This program grid is provided for guidance only. Degree completion is based on courses completed successfully and is subject to all applicable requirements and procedures in effect. Students should consult the B.Sc. Degree Advisor to confirm program requirements for their chosen degree.

Course Number	Course Name	Credits	Upper-Level Credits	Notes
English 1	100-level English	3		1
English 2	100-level English	3		1
MATH 121	Calculus I	3		
MATH 122	Calculus II	3		
BIOL 121	Introductory Zoology	4		
BIOL 123	Intro. Cellular & Molecular Biology	4		
CHEM 140	Chemistry Fundamentals I	4		
CHEM 141 or 142	Chemistry Fundamentals II	4		
PHYS 111	Physics for the Life Sciences I	4		
PHYS 112	Physics for the Life Sciences II	4		
BIOL 200	Introduction to Cell Biology	3		
BIOL 201	Principles of Biochemistry I	3		
BIOL 202	Ecology	3		
BIOL 210	Microbiology I	3		
BIOL 212	Genetics	3		
BIOL 223	Botany	3		
CHEM 231	Organic Chemistry I	3		
CHEM 232	Organic Chemistry II	3		
MATH 203	Biometrics	3		
BIOL 305	Animal Physiology	3	3	
BIOL 402	Evolution	3	3	
BIOL 403	Current Topics in Biology	3	3	
BIOL 300-499 Option	Specialization Course I	3	3	2
BIOL 300-499 Option	Specialization Course II	3	3	2
BIOL 300-499 Option	Specialization Course III	3	3	2
BIOL 300-499	Upper-Level Biology Elective I	3	3	3
BIOL 300-499	Upper-Level Biology Elective II	3	3	3
BIOL 300-499	Upper-Level Biology Elective III	3	3	3
BIOL 300-499	Upper-Level Biology Elective IV	3	3	3
AQUA 101	Introduction to Aquaculture	3		
CHEM 212	Environmental Chemical Analysis	3		
AQUA 323	Invertebrate Aquaculture	3	3	
AQUA 328	Methods and Techniques of Finfish Culture	3	3	
AQUA 332	Finfish, Shellfish and Crustacean Nutrition	3	3	
AQUA 342	Finfish, Shellfish and Crustacean Health	3	3	
AQUA 375	Recirculating Aquaculture Systems (RAS)	3	3	
GEOG 356	Policy, Resources and Sustainability	3	3	4
MGMT 381	Entre/Intrapreneurship	3	3	4
Elective 100-499	General Elective I	3		5
Elective 100-499	General Elective II	3		5
<b>TOTAL:</b>		<b>126</b>	<b>51</b>	

See notes on the next page /...

## NOTES:

1. The Degree English Requirement can be met as follows:
  - Two of ENGL 115, 125, 135, 204, or INTR 100; or,
  - LBST 111 and 112.
2. The Biological Specialization consists of 9 credits (3 courses) chosen from one of the following options:
  - Microbial Biology: BIOL 332, 334, 336, 337, 432 or 436.
  - Molecular and Cellular Biology: BIOL 341, 342, 435, 443, 445 or 465.
  - Aquatic and Terrestrial Ecology: BIOL 310, 315, 320, 322, 351 or 360.
3. Upper-Level Biology Electives can be any BIOL course numbered 300-499.
  - Students have the option to complete a research project in their final year: BIOL 490 (3 credits) or 491 (6 credits).
  - Students interested in taking BIOL 490 or 491 should consult the Chair of the Biology Department.
4. GEOG 356 and MGMT 381 can be used to meet the Non-Science Elective Requirement for the Bachelor of Science.
5. General Electives can be courses in any discipline numbered 100-499.