



Report from University of Victoria
Biology Articulation Committee Meeting, May 9-10, 2023
Online meeting

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Course (Credits)	Course Name	Required text or readings	Projected Enrollment	Hours (/week)	Prerequisites	Notes	Course Instructor
BIOL 150A (1.5)	Modern Biology I	<i>Campbell Biology: Concepts and Connections</i> , 10th edition	463	3 lec		non-majors course	Beaulieu, Neal,
BIOL 150B (1.5)	Modern Biology II	<i>Campbell Biology: Concepts and Connections</i> , 10th edition	368	3 lec		non-majors course	Sessional (Lauer)
BIOL 184 (1.5)	Evolution and Biodiversity	<i>Campbell's Biology</i> , 3 rd Canadian edition	736	3 lec 3 lab	One of Biology 11, Biology 12, BIOL 150A, 150B, 186		Punzalan, Hind, von Aderkas
BIOL 186 (1.5)	Physiology and Cell Biology	<i>Campbell's Biology</i> , 3 rd Canadian edition	761	3 lec 3 lab	One of Biology 11, Biology 12, BIOL 150A, 150B, 184		Beaulieu, Marx, Constabel
BIOL 215 (1.5)	Principles of Ecology	recommended: recent texts on reserve; or <i>Ecology</i> , Molles Cahill, Laursen, 5 th edition	228	3 lec 3 lab	184 or 190B; and 186 or 190A		Reimchen
BIOL 225 (1.5)	Principles of Cell Biology	<i>Becker's World of the Cell</i> , 10 th edition, Hardin & Lodolce	486	3 lec 3 lab	one of 186, 190A; pre or coreq one of 184, 190B, MICR 200A	offered in both fall and summer	Briant
BIOL 230 (1.5)	Principles of Genetics	<i>Genetics Analysis and Principles</i> , Brooker, 7 th edition	352	3 lec 3 lab	225; coreq BIOC 200		Owens
BIOL 307 (1.5)	Chordate Zoology	<i>Vertebrates, Comparative Anatomy, Function</i> . 8 th edition, Kardong (optional)	68	3 lec 3 lab	184 or 190B; and 186 or 190A		Punzalan

BIOL 309 (1.5)	Developmental Biology	<i>Developmental Biology</i> , 12 th edition, Gilbert; current literature	33	3 lec 3 lab	230, or BIOC 300B, or 225 & BIOC 299	currently offered in alternating years with Biol 404	Chow
BIOL 311 (EOS 311) (1.5)	Biological Oceanography	<i>Biological Oceanography – An Introduction</i> , 2 nd edition, Lalli and Parsons, (optional)	51	3 lec 3 lab	One of CHEM 101 or 150; CHEM102; Two of MATH 100, 101, 102, 109, 151; One of PHYS 102, 102A&102B, 110&111, 112, or 120 & 130	offered in both winter and summer	Hamme, Wyatt
BIOL 312 (1.5)	Entomology	Peer reviewed scientific papers	53	3 lec 3 lab	184 and 186, or 190B; and 215		Perlman
BIOL 319 (1.5)	Marine Ecology		52	3 lec 3 lab	215 and 321; one of STAT255, 260		Neal
BIOL 321 (1.5)	Survey of Invertebrates	<i>Biology of the Invertebrates</i> , 7 th edition, Pechenik	101	3 lec 3 lab	184 or 190B; and 186 or 190A; and 225		Neal
BIOL 324 (1.5)	Biology of Land Plants	<i>Biology of Plants</i> , 8 th edition, Raven (recommended) + readings	65	3 lec 3 lab	184 or 190B; and 186 or 190A		Hawkins
BIOL 325 (1.5)	Tree Biology		21	3 lec 3 lab	225 (B or better)		von Aderkas, Hawkins
BIOL 329 (1.5)	Biology of the Vertebrates of British Columbia	current literature	56	3 lec 3 lab	215, 3 rd year	offered in both fall and summer	Reimchen
BIOL 330 (1.5)	Study Design and Data Analysis	<i>The Analysis of Biological Data</i> , 3 rd edition, Whitlock and Schluter	80	3 lec 3 lab	One of STAT 255, 260; 3 rd year; One of BIOL215,225,230	crosslisted with ES 344	Punzalan

BIOL 334 (1.5)	Plants and People	<i>Plants and Society</i> , 8 th edition, Levetin and McMahon	155	3 lec	3 rd year	cannot be taken for upper-level biology credit	Sessional (Ghoshal)
BIOL 335 (1.5)	Ichthyology	many optional and recommended sources	57	3 lec 3 lab	215, 3 rd year		Reimchen
BIOL 336 (1.5)	Biology of Algae	<i>Algae</i> , 3 rd edition, Graham <i>et al.</i>	49	3 lec 3 lab	215 and 225		Varela
BIOL 345 (1.5)	Animal Behaviour	<i>Animal Behaviour</i> , 11 th edition, Rubenstein and Alcock	102	3 lec 3 lab	184 or 190B; and 186 or 190A; and 3 rd year; and 215 or declared major or Honours in Anthropology or declared major or Honours in Combined Biology and Psychology	Students with credit in MRNE446 may take this course for credit	Reimchen
BIOL 346 (1.5)	Freshwater Ecosystems	Current literature	58	3 lec	215 or ES 240 or GEOG 272		El-Sabaawi
BIOL 351 (1.5)	Biology behind the News	<i>Science Fictions</i> , Stuart Ritchie	65	3 lec	3 rd year standing	Not counted toward any biology program requirement except as an elective	Beaulieu
BIOL 355 (1.5)	Evolution	Current literature	197	3 lec	230	formerly Biol 455	Perlman
BIOL 359 (1.5)	Food, Disease and People	Microbiology and Technology of Fermented Food, Hutkins; Course pack	91	3 lec	3 rd year standing	Credit for this course will not be counted toward any	Roy

						Biology program requirement except as an elective	
BIOL 360 (1.5)	Cell Biology	<i>Molecular Biology of the Cell</i> , 6 th edition, Alberts <i>et al</i>	116	3 lec	One of 230, BME200 & BME201; one of BIOC 299, BIOC 300A, 300B		J Ehltng, Koop
BIOL 361 (1.5)	Molecular Genetics and Genomics	current literature	64	3 lec	230; one of BIOC 299 or prereq or coreq BIOC 300A or 300B		
BIOL 362 (1.5)	Techniques in Molecular Biology		20	1 lec 3 lab	230; pre or coreq BIOC 299 or 300A or 300B		Gawryluk
BIOL 365 (1.5)	Animal Physiology	<i>Principles of Animal Physiology</i> , 3 rd edition, Moyes and Schulte	164	3 lec 3 lab	184 and 186, or 190B; and 225 and 3rd year; pre or coreq BIOC 299 or 300A or 300B		Nashmi, Templeman
BIOL 366 (1.5)	Plant Physiology	<i>Plant Physiology and Development</i> , Taiz et al. 7 th edition	36	3 lec 3 lab	225, 3rd year; pre or coreq BIOC 299, 300A, 300B		Hawkins, Sessional (Kou-Giesbrecht)
BIOL 367 (1.5)	Neurobiology: Molecules to Behaviour	<i>Neuroscience</i> , Purves <i>et al.</i> 5 th or 6 th edition	103	3 lec	One of 360, 365, BME200, BME201	Formerly 409A	Delaney,
BIOL 370 (1.5)	Conservation Biology	<i>An Introduction to Conservation Biology</i> , Sher, 3 rd edition	85	3 lec	186 or 190a; and 215 & 230; and STAT255 or 260	crosslisted with ES 320	Sessional (St. Clair)
BIOL 400 (1.5)	History of Biology	posted readings	257	3 lec	3rd year		Beaulieu
SeBIOL 404 (1.5)	Sensory Biology	current literature	71	3 lec	One of 365 or 367 or 409A	currently offered in	Sessional (Star)

						alternating years	
BIOL 415C (1.5)	Mycology	current literature	28	3 lec	215 and 225 and 230		de la Bastide
BIOL 432 (1.5)	Molecular Endocrinology	<i>Greenspan's Basic and Clinical Endocrinology</i> , Gardner and Shoback, 9 th edition, (recommended); current literature	138	3 lec	one of 360, 365, BIOC 299, 300A, 300B		Walter, Templeman
BIOL 432 (1.5)	Molecular Endocrinology	<i>Greenspan's Basic and Clinical Endocrinology</i> , Gardner and Shoback, 9 th edition, (recommended); current literature	138	3 lec	one of 360, 365, BIOC 299, 300A, 300B		Walter, Templeman

BIOL 435 (1.5)	Molecular Evolution	current literature	23	3 lec	230; pre or coreq one of 330, 355, 439,455 BIOC 300A, 300B, CSC 428, ES310, ES344		Owens
BIOL 438 (1.5)	Nutrient Cycling and Prokaryotes	<i>Brock, Biology of Microorganisms</i> , Madigan et al., 13 th edition, recommended + other recommended references	51	3 lec	two of 215, 225, 230; or MICR 200A and 200B; or permission		Roy
BIOL 439 (1.5)	Molecular Epidemiology	readings	52	3 lec	225, 230; STAT255 or STAT260		Taylor
BIOL 447 (1.5)	Ion Channels and Disease	current literature	72	3 lec	366 or 367		Nashmi
BIOL 448 (1.5)	Neuroethology	<i>Neuroethology</i> , Camhi; <i>Behavioural Neurobiology</i> , Carew	56	3 lec 2 tut	one of 345, 365, 305A, 305B		Marx
BIOL 449 (1.5)	Flowering Plant Diversity	current literature on reserve	32	3 lec 3 lab	184 or 190B, 186 or 190A; 3 rd year	formerly BIOL 318,	Hawkins Sessionals (MacKinnon &

						crosslisted with ES425	Kiskelly)
BIOL 460 (1.5)	Honours Seminar		16	1 tut			Perlman, Hawkins
BIOL 461 (1.5)	Fisheries Ecology and Management	<i>Marine Fisheries Ecology, Jennings et al.</i> ; current literature	31	3 lec 1 tut	one of 330, 370, ES320, 344, permission of department		Juanes
BIOL 462 (1.5)	Community and Ecosystem Ecology	primary literature (current and classical)	16	3 lec 1 tut	215; pre or coreq 330 or ES344		Bates
BIOL 465 (1.5)	Molecular Basis of Cancer	<i>Biology of Cancer</i> , Weinberg (recommended); current literature	60	3 lec	225, 230, and one of 360, BIOC300A, 300B		Walter, Lum
BIOL 466 (1.5)	Frontiers in Marine Biology	current literature	25	3 lec	one of 311, 319, EOS311; pre- or co-req 330 or ES344		Baum
BIOL 467 (1.5)	Neural Development	current literature	53	3 lec	one of 309, 360, 367		Chow
BIOL 470 (1.5)	Advanced Topics: Clinical Cancer	current literature	15	3 lec			Koop,
BIOL 490A -G (3.0)	Directed Studies		41				Briant
BIOL 499A /B (3.0)	Honours Thesis		33				Perlman, Hawkins

NOTES

Recent retirements

Gerry Allen (July 1st 2022) – plant systematics; evolution
Louise Page (September 1st 2022) – marine invertebrates
Asit Mazumder (September 1st 2022)– Limnology, Aquatic Ecology
Will Hintz passed away Nov 2022 – Forest Biology, mycology

New Faculty

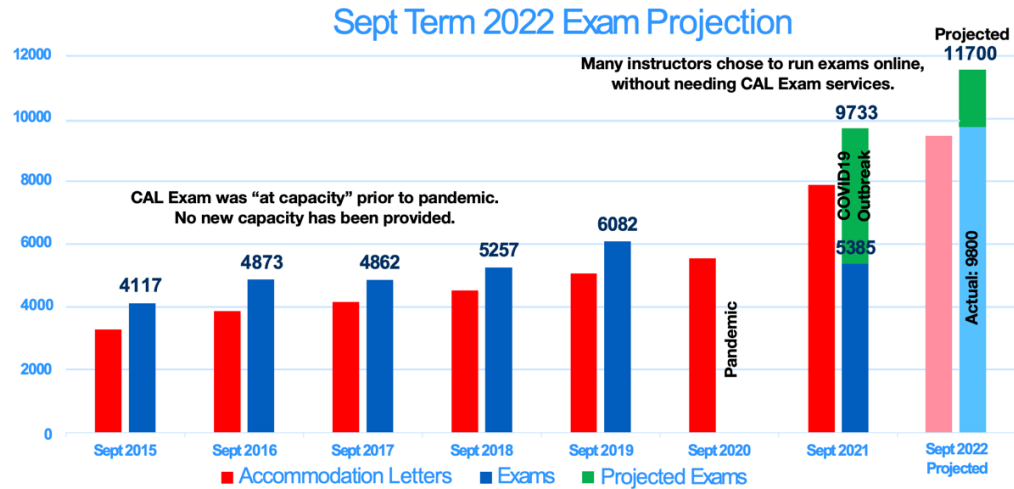
Mark Lewis (started July 1st)– joint position with Biology and math

Course Delivery

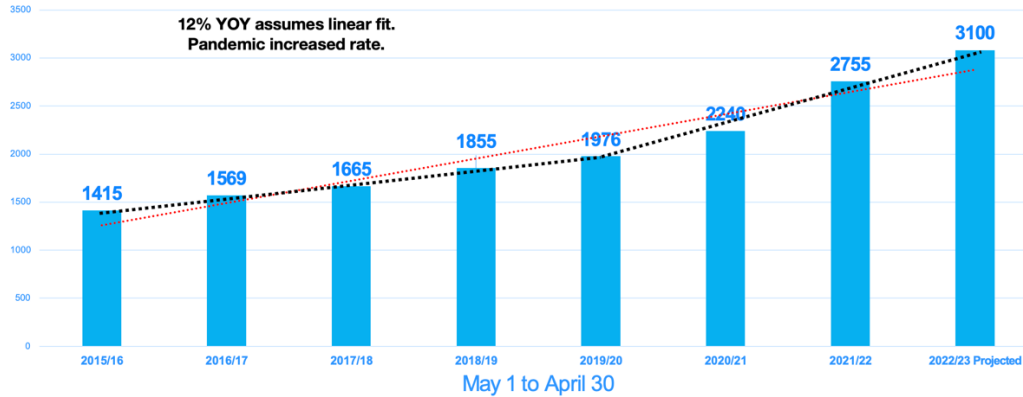
In the spring 2022, almost all courses were F2F (except for the first two weeks, due to omicron); many instructors also posted recorded lectures for the benefit of covid-19 patients or students living with vulnerable loved ones.
In fall 2022 courses went to F2F, some professors record live lectures, some don't.
No Covid related campus wide closures during fall 2022 or spring 2023 term

Challenge:

Increase of 'CAL students' (students with accommodations) about 50% compared to before Covid times. CAL centre does not have the capacity anymore to host all students for exams and instructors are encourage to offer online/take home exams/alternative evaluations. Number of lab-related accommodations on the rise



Active Students With Academic Accommodations (12% YOY)



- 4% cut across UVic, including faculty of Science (including biology department)

Packback

Several courses (Chordates, Plants and People, History of Biology) made use of the Packback online discussion platform, with largely positive results.

First year Challenges

The first-year lab courses (Biology 184, Evolution and Biodiversity; Biology 186, Physiology and Cell Biology) are bursting at the seams, and need an infusion of new staff and resources.

Reduced number in first year courses from 821 (biol184, fall 2021)/811 (biol186 spring 2022) to 736 (biol184 fall 2022) /761 (biol186 spring 2023)

FACULTY and STAFF

Complete listings of Department of Biology faculty and staff can be found at these sites:

<http://www.uvic.ca/science/biology/people/home/faculty/index.php>

<http://www.uvic.ca/science/biology/people/home/staff/index.php>