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Biology Articulation Committee Meeting

May 9 & 10, 2023

Kelowna, BC

Report from: University of the Fraser Valley

Articulation Rep: Gregory Schmaltz

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Course (credits)	Course Name	Text	Projected Enrolment	Hours/week lec-lab-tut	Pre-Requisites	Notes	Course Instructors
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College Prep (if Applicable)

BIO 083 (3)	Adult Basic Education (ABE) Advanced Biology					Upgrading and University Prep Course	
BIO 093 (3)	Provincial-Level Biology					Upgrading and University Prep Course	

University-Level Courses

BIO 105 (4)	Human Biology	Goodenough; Biology of Humans	336	3-3-0	None	Non-majors	Bainard, Guichon, Spielman, Janmaat, Navon, Nyaeme, Shin
BIO 106 (4)	Ecology from an Urban Perspective	Miller; Environmental Science	36	3-2.2-0.8	None	Non-majors	Barrett
BIO 111 (5)	Introductory Biology I	Freeman, Scott; Mastering Biology	358	3-3-0.8	One of the following: ([one of Life Sciences 11, Biology 11, or BIO 083 with a C+ or better] and [one of Chemistry 12,	Majors	Lee, Leon, Wheeler, Varankovich, Bainard, Shin, Johansen, Navon, Gillies

					CHEM 093, or CHEM 110 with a C or better]) or ([one of Anatomy and Physiology 12, Biology 12, or BIO 093 with a C+ or better] and [one of Chemistry 11, Chemistry 12, CHEM 083, CHEM 093, or CHEM 110 with a C or better])		
BIO 112 (5)	Introductory Biology II	Freeman, Scott; Mastering Biology	171	3-3-0.8	BIO 111	Majors	Johansen, Wheeler, Varankovich, Barrett, Bialas, Reid, Gillespie
BIO 201 (4)	Cell Biochemistry/ Metabolism	Hardin; Becker's World of the Cell	83	3-3-0	One of the following: (BIO 112 and CHEM 114, both with a C+ or better) or (BIO 111, [CHEM 110 or CHEM 113], and [two of AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220], all with a C+ or better)	Majors	Lee, Stea,
BIO 202 (4)	Cell Signaling/ Gene Regulation	Hardin; Becker's World of the Cell	88	3-1.3-1.6	One of the following: (BIO 112 and CHEM 114, both with a C+ or better) or (BIO 111, [CHEM 110 or CHEM 113], and [two of AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220], all with a C+ or better)	Majors	Leon, Lee, Bialas, Johansen

BIO 210 (4)	Introduction to Ecology	Bowman, Hacker, Cain; Ecology	74	3-3-0	One of the following: (BIO 112 and CHEM 114, both with a C+ or better) or (BIO 111, [CHEM 110 or CHEM 113], and [two of AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220], all with a C+ or better)	Majors	Barrett, Gillespie, Reid
BIO 219 (4)	Biogeography		14			Geography and the Environment	Mapili
BIO 220 (4)	Genetics	Klug; Concepts of Genetics	105	3-3-0	One of the following: (BIO 112 and CHEM 114, both with a C+ or better) or (BIO 111, [CHEM 110 or CHEM 113], and [two of AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220], all with a C+ or better)	Majors	Bialas, Leon, Starr
BIO 301 (4)	Anatomy and Physiology of Invertebrates	Brusca; Invertebrates	15	3-3-0	Any two Biology courses 200-level and above	Non-majors	Reid
BIO 305 (4)	Structural and Functional Anatomy of Vertebrates	n/a (not offered)	36	3-3-0	Any three 200-level biology course	Non-majors	n/a (not offered)
BIO 306 (4)	Vertebrate Organ Systems	n/a (not offered)	36	3-3-0	Any three 200-level biology courses. Note: BIO 305 is recommended	Non-majors	n/a (not offered)
BIO 307 (4)	Anatomy & Diversity of Plants	Blackmore; How Plants Work	23	3-3-0	BIO 210	Non-majors	Ried
BIO 308 (4)	Plant Physiology	Taiz, Zeiger; Plant Physiology and Development	25	3-3-0	BIO 201 and 220	Non-majors	Gillies

BIO 309 (4)	Microbiology I	Bauman; Microbiology with Diseases by Body Systems	93	3-3-0	BIO 111, BIO 112, and 8 credits of 200- level or above Biology	Non-majors	Thomas, Starr, J Bedard
BIO 310 (3)	Conservation Biology	Primack; An Introduction to Conservation Biology	71	2.6-0-0 (0.3 field experience)	BIO 210	Majors	Gillies
BIO 312 (3)	Developmental Biology	Free On-line Text	60	3-3-0	(BIO 202 or BIO 220) and two other 200-level Biology courses	Majors	Stea
BIO 319 (4)	Swamps and Bogs		13			Geography and the Environment	Bondar
BIO 320 (3)	Biochemistry	Stryer; Biochemistry	73	3-0-0	BIO 201 and CHEM 213	Majors	Lee, Fenske
BIO 330 (4)	Plants and Animals of British Columbia	n/a (not offered)	n/a (not offered)	3-3-0	60 university- level credits, including BIO 210	Non-majors	n/a (not offered)
BIO 333 (3)	Bioinformatics I	No Text	30	1.6-0-1.3	BIO 220	Non-majors	Alfred
BIO 335 (4)	Freshwater Ecology	No Text	39	1-1.3-0 (2 seminar- 1.6 field experience)	BIO 210 or GEOG 202	Non-majors	Gillies, Marsh
BIO 340 (4)	Population and Community Ecology	n/a (not offered)	n/a (not offered)	3-3-0	BIO 210 and MATH 111	Non-majors	n/a (not offered)
BIO 350 (3)	Medical Genetics	n/a (not offered)	n/a (not offered)	3-0-0	BIO 201, BIO 202, and BIO 220	Non-majors	n/a (not offered)
BIO 357 (4)	Conservation GIS		9			Geography and the Environment	Mapili
BIO 360 (4)	Insect Biology	n/a (not offered)	n/a (not offered)	3-3-0	Any two 200- level or above Biology courses	Non-majors	n/a (not offered)
BIO 370 (4)	Introduction to Mycology	Peterson; The Kingdom of Fungi Gaya; Fungarium	23	3-3-0	BIO 210 and two other 200-level or above Biology courses	Non-majors	Ried
BIO 380 (4)	Ornithology	No Text	18	3-3-0	BIO 210 and 45 university-level credits	Non-majors	Schmaltz
BIO 383 (3)	Human Physiology	Silverthorn;	24	3-0-0	BIO 201 and BIO 202	Non-majors	Schmaltz

		Human Physiology with Mastering					
BIO 385 (3)	Neurobiology	Crossman; Neuroanatomy	48	3-0-0	BIO 111, BIO 112, and BIO 201	Non-majors	Nyaeme
BIO 390 (4)	Animal Behaviour	n/a (not offered)	n/a (not offered)	3-3-0	BIO 210	Non-majors	n/a (not offered)
BIO 401 (3)	Molecular Biology	No Text	22	2.6-0-0.4	BIO 201, BIO 202, and BIO 220	Non-majors	Bialas
BIO 403 (4)	Molecular Techniques I	Winfrey, Rott, Wortman; Unraveling DNA – Molecular Biology for the Laboratory	8	1.6-4.3-0	BIO 202, BIO 220, BIO 309, and one of the following: BIO 312, BIO 320, BIO 425, or BIO 401	Non-majors	J Bedard
BIO 406 (3)	Advanced Genetics	n/a (not offered)	n/a (not offered)	3-0-0	BIO 202 and BIO 220	Non-majors	n/a (not offered)
BIO 407 (3)	Applied Biotechnology	n/a (not offered)	n/a (not offered)	3-0-0	BIO 201 and BIO 220. BIO 320 is recommended	Non-majors	n/a (not offered)
BIO 408 (3)	Directed Studies in Biology I	No Text	15	0-0-0 (3 student directed)	(B+ or better in three of BIO 201, BIO 202, BIO 210, or BIO 220), and instructor's permission	Non-majors	Various
BIO 409 (6)	Directed Studies in Biology II	No Text	17	0-0-0 (6 student directed)	(B+ or better in three of BIO 201, BIO 202, BIO 210, or BIO 220), and instructor's permission	Non-majors	Various
BIO 410 (4)	Plant Ecology	n/a (not offered)	n/a (not offered)	3-3-0	BIO 210 or GEOG 219/BIO 219	Non-majors	n/a (not offered)
BIO 412 (3)	Advanced Metabolism	No Text	25	3-0-0	BIO 320/BIOC 320. Note: 6 credits of 200-level or higher Chemistry are recommended	Non-majors	Lee
BIO 414 (3)	Genomics	Lesk; Introcuton to Genomics	20	1.6-0-1.3	BIO 201, BIO 202, and BIO 220	Non-majors	J Bedard

BIO 415 (3)	Cancer Biology	n/a (not offered)	n/a (not offered)	3-0-0	BIO 201, BIO 202, and BIO 220	Non-majors	n/a (not offered)
BIO 416 (3)	Evolution	Futuyma; Evolution	26	1-0-0 (2 seminar)	BIO 210, BIO 220, and one 300-level or above Biology course	Majors	Navon
BIO 418 (4)	Ethnobotany	n/a (not offered)	n/a (not offered)	3-3-0	60 university-level credits including BIO 210	Non-majors	n/a (not offered)
BIO 419 (4)	Paleoecology		8			Geography and the Environment	Hughs
BIO 420 (3)	Special Topics in Biology	n/a (not offered)	n/a (not offered)	3-0-0	Any three 200-level or above Biology courses	Non-majors	n/a (not offered)
BIO 421 (4)	Special Topics in Applied Biology	n/a (not offered)	n/a (not offered)	3-3-0	Any 3 biology courses numbered 200 or above	Non-majors	n/a (not offered)
BIO 425 (4)	Introductory Medical Microbiology	Bauman; Microbiology with Diseases by Body System	14	3-3-0	BIO 309	Non-majors	Thomas
BIO 426 (4)	Environmental Microbiology	n/a (not offered)	n/a (not offered)	3-3-0	BIO 201 and 309	Non-majors	n/a (not offered)
BIO 427 (3)	Plants and Drugs	n/a (not offered)	24	3-0-0	60 university-level credits	Non-majors	n/a (not offered)
BIO 430 (3)	Forest Ecology	n/a (not offered)	n/a (not offered)	1.6-0-0 (1.3 seminar)	75 university-level credits, including BIO 210	Non-majors	n/a (not offered)
BIO 433 (3)	Bioinformatics II	No Text	7	1.6-0-1.3	BIO 333	Non-majors	Alfred
BIO 442 (8)	Biological Field School	n/a (not offered)	n/a (not offered)	1-3-2 (6 experiential)	Any three BIO courses numbered 200 or above and permission of the department	Non-majors	n/a (not offered)
BIO 448 (3)	Immunology	Kindt; Kuby Immunology	29	2.4-0-0.6	BIO 201, BIO 202, and BIO 220	Non-majors	J Bedard
BIO 477 (4)	Traditional Ecological Knowledges		9			Indigenous Studies	Gillies

BIO 496 (1)	Advanced Biological Topics	No Text	1	0-0-0 (1 seminar)	Any three 200-level or above Biology courses and permission of the faculty supervisor	Non-majors	Harrison
BIO 498 (2)	Advanced Biological Topics	No Text	1	0-0-0 (1 seminar-1 student directed learning)	Any three 200-level or above Biology courses and permission of the faculty supervisor	Non-majors	Navon
BIO 499 (9)	Honours Research Thesis	No Text	12	0-0-0 (0.3 seminar-8.6 student directed learning)	Admission to the Biology Honours and 10 credits of 300-level or above Biology	Majors	Various

PROGRAM CHANGES (or other Notes)

Changes related to biology programming..

Other changes...faculty changes, lab changes, prerequisite changes etc.

Retirements/Emeritus – Christine Dalton, Patrick Harrison

New Hire – Dr. Dina Navon

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