

**BioMed Course Summary 2023-24**

<b>SEM</b>	<b>BANNER NUMBER</b>	<b>COURSE TITLE</b>	<b>PRIMARY INSTRUCTOR</b>	<b>*FYS/SOPH SEM/LAB/WRIT/CONF/DIV/COEX</b>	<b>ONLINE/HYBRID/REMOTE ACCESSABLE</b>
SUMMER	0500	Cell and Molecular Biology	Freiman, Richard		Online
SUMMER	0800	Principles of Physiology	Sobieraj, Andrea	LAB	Online
SUMMER	1000	Quality Improvement Science and Application	Monteiro, Kristina		Online
SUMMER	1255	Climate Change & Health: Infections and Inequalities	Martin, Kyle		Online
SUMMER	1455	Planetary Health: Global Environmental Change and Emerging Infectious Disease	Smith, Katherine		Online
1	BIOL XLIST: CLPS 1195	Life Under Water in the Anthropocene	Colwill, Ruth	CONF/LAB/WRIT	
1	BIOL XLIST: NEUR 1530	Communication In the Brain: What We Know and How We Know It	O'Connor-Giles, Kate		
1	0170	Biotechnology in Medicine	Achilli, Toni Marie	CONF	S02-Hybrid
1	0190F	Foundations: Darwinian Medicine	Tatar, Marc	FYS/DIV	
1	0190P	Pride & Prejudice in the Development of Scientific Theories	Helfand, Stephen	FYS	
1	0190R	Foundations: Phage Hunters, Part I	Taylor, Sarah	FYS/LAB/COEX	
1	0200	The Foundations of Living Systems	Holmes, Will/Stein, John/Hall, Jody	LAB/DIV	
1	0210	Diversity of Life	Kellner, James	DIV	
1	0380	The Ecology and Evolution of Infectious Disease	Weinreich, Daniel	CONF	
1	0410	Invertebrate Zoology	Ewanchuk, Patrick	LAB/DIV	
1	0470	Genetics	Johnson, Mark	LAB	S02-Hybrid; S03-Online
1	0480	Evolutionary Biology	Rand, David	CONF/DIV	S02-Online
1	0530	Principles of Immunology	Dugan, Aisling	CONF	
1	0940A	Viral Epidemics	Atwood, Walter	SOPH SEM/WRIT	

1	0940D	Rhode Island Flora: Understanding and Documenting Local Plant Diversity	Kartzinel, Rebecca	SOPH SEM/LAB	
1	0946	Research Design + Quantitative Methods for the Health Sciences	Monteiro, Kristina		
1	0960	Independent Study in Science Writing	Faculty Advisors		
1	1070	Biotechnology and Global Health	Schell, Jacquelyn		
1	1090	Polymer Science for Biomaterials	Mathiowitz, Edith	LAB	Offered every other year
1	1110, 2220	Signal Transduction	Oancea, Elena		
1	1140	Tissue Engineering	Hoffman-Kim, Diane	DIV	
1	1160	Principles of Exercise Physiology	Sobieraj, Andrea	DIV	
1	1260, 2260	Physiological Pharmacology (Grad students register for 2260)	Marshall, John		S02-Online
1	1270, 2270	Advanced Biochemistry (Grad students register for 2270)	Deaconescu, Alexandra/Lisi, George		
1	1290	Cancer Biology	Zhitkovich, Anatoly		
1	1300, 2300	Biomolecular Interactions (Grad students register for 2300)	Fawzi, Nicolas	WRIT	**Inactive Fall 2023
1	1310, 2310	Developmental Biology (Grad students register for 2310)	Wharton, Kristi	LAB	
1	1430	Population Biology	Weinreich, Daniel		Offered every other year
1	1440	Coral Reef Ecology	Witman, Jon		Offered every other year
1	1465	Human Population Genomics	Huerta-Sanchez, Emilia	WRIT	*Offered every other year **Inactive Fall 2023
1	1470	Conservation Biology	Sax, Dov		
1	1515, 2015	Conservation in the Genomics Age	Kartzinel, Tyler	LAB/COEX/WRIT	*Offered every other year **Inactive Fall 2023
1	1520	Innate Immunity	Brossay, Laurent		
1	1560, 2560	Virology (Grad students register for 2560 Advanced Virology)	Jamieson, Amanda/Lee, Sanghyun		

1	1565	Survey of Biomedical Informatics	Sarker, Neil		
1	1575, 2075	Evaluation of Health Information Systems	Fraser, Hamish	WRIT (1575 only)	
1	BIOL 1630/NEUR 1630	Big Data Neuroscience Lab	Fleischmann, Alexander	LAB	
1	BIOL 1650/NEUR 1650	Structure of the Nervous System	Berson, David	LAB	
1	1800	Animal Locomotion	Swartz, Sharon	WRIT	*Offered every other year **Inactive Fall 2023
1	1945	Outbreaks and Infections: Harnessing History and Preventing Future Epidemics	Dugan, Aisling		
1	1950	Directed Research/Independent Study - See <i>Research</i>	Faculty Advisors	LAB	
1	1970A	Stem Cell Biology	Freiman, Richard		
1	2010A	Introduction to Molecular Research in the Life Sciences	Dawson, Michelle		
1	2020	Biotechnology Science and Industry	Huang, Eric		
1	2030	Foundations for Advanced Study in the Life Sciences	DeLong, Alison		
1	2089	Biotechnology IP	Morgan, Jeffrey/Holmander, Daniel		
1	2110	Drug and Gene Delivery	Mathiowitz, Edith		*Offered every other year **Inactive Fall 2023
1	2150	Scientific Communication	S01: Valdez, Gregorio/Reenan, Robert; S02: Ramachandran, Sohini		
1	2180	Experiential Learning Industry (ELI)	Schell, Jacquelyn		
1	2230	Biomedical Engineering and Biotechnology Seminar	Darling, Eric/Hoffman-Kim, Diane		
1	2250	Survey of Modern Therapeutics	Horrigan, Diana		
1	2430	Topics in EEB	Fuxjager, Matthew	DIV	

1	2860	Molecular Mechanisms of Human Disease	Bartnikas, Thomas	DIV	
Winter	0940G	Antibiotic Drug Discovery: Identifying Novel Soil Microbes to Combat Antibiotic Resistance	Achilli, Toni-Marie	COEX/LAB	Hybrid
Winter	1000	Quality Improvement Science and Application	Monteiro, Kristina		Online
Winter	1445	Medicine in Austere Settings	Martin, Kyle Denison		Online
Winter	1455	Planetary Health: Global Environmental Change and Emerging Infectious Disease	Smith, Katherine		Online
2	BIOL XLIST: ENVS 0490	Environmental Science in a Changing World	Kartzinel, Tyler		
2	0080	Biotechnology Management	Bready, Barrett		
2	0100	Living Biology at Brown & Beyond	Monteiro, Kristina/Hall, Jody	FYS/DIV/LAB	
2	0150D	Techniques in Regenerative Medicine: Cells, Scaffolds and Staining	Achilli, Toni-Marie	FYS/LAB	
2	0190S	Foundations: Phage Hunters, Part II	Zhou, Yang/Taylor, Sarah	FYS/LAB/COEX	
2	0280	Biochemistry	Holmes, Will/Jogl, Gerwald/Taylor, Sarah	CONF	
2	0285-S01, S02	Inquiry in Biochemistry: From Gene to Protein Function	Sobieraj, Andrea	LAB/CONF/COEX/WRIT	
2	0420	Principles of Ecology	Witman, Jon	CONF	
2	0430	Evolution of Plant Diversity	Kartzinel, Rebecca	LAB	*L02 - Hybrid
2	0440	Inquiry in Plant Biology: Analysis of Plant Growth, Reproduction and Adaptive Responses	DeLong, Alison/Johnson, Mark	LAB	*Offered every other year **Inactive Spring 2024
2	0450	Evolutionary Behavioral Ecology	Fuxjager, Matt		Offered every other year
2	0495	Statistical Analysis of Biological Data	Ramachandran, Sohini	CONF	

2	0500	Cell and Molecular Biology	Valdez, Gregorio/Mowry, Kimberly/Lizarraga		
2	0510	Introductory Microbiology	Dugan, Aisling	LAB	
2	0800	Principles of Physiology	Stein, John	LAB	S02 - Hybrid; S03 - Online
2	0960	Independent Study in Science Writing	Faculty Advisors		
2	1040, 2040	Ultrastructure/Bioimaging	Williams, Geoffrey	LAB	
2	1100	Cell Physiology and Biophysics	Zimmerman, Anita/ Horrigan, Diana		
2	1120	Biomaterials	Dingle, Yu-Ting		
2	1150	Stem Cell Engineering	Darling, Eric	LAB	**Inactive Spring 2024
2	1155	Hormones and Behavior	Fuxjager, Matt		
2	1222A/2222B	Current Topics in Functional Genomics	Fairbrother, William		
2	1250	Host-microbiome Interactions in Health and Disease	Belenky, Peter/Vaishnava, Shipra	DIV	**Inactive Spring 2024
2	1295	Fundamentals of Cancer Immunotherapy	Lawler, Sean		
2	1330	Biology of Reproduction	Wessel, Gary	DIV	
2	1435	Computational Methods for Studying Demographic History with Molecular Data	Huerta-Sanchez, Emilia		
2	1525	Pathogenomics: Analysis, interpretation and applications of microbial genomes	Siddle, Katherine/Cuomo, Christina	CONF	
2	1530	Emergency Medical Systems: An Anatomy of Critical Performance	Becker, Bruce/Karim, Naz		
2	1540, 2540	Molecular Genetics (Grad students register for 2540)	Huang, Yu-Wen Alvin		
2	1545, 2545	Human Genetics and Genomics (Grad students register for 2545)	Morrow, Eric		
2	1550	Parasitism: Biology and Disease	deGraffenried, Chris		

2	1555	Methods in Biomedical Informatics	Sarker, Neil/Chen, Elizabeth	COEX	
2	1600	Development of Vaccines to Infectious Diseases	Beura, Lalit		
2	BIOL 1610/NEUR 1600	Experimental Neurobiology	Stein, John	LAB	
2	1810	21st Century Applications in Cell and Molecular Biology	Dawson, Michelle	WRIT	**Inactive Spring 2024
2	1820	Environmental Health and Disease	Plavicki, Jessica		**Inactive Spring 2024
2	1865, 2865	Toxicology (Grad students register for 2865)	Spade, Daniel		S02-Online
2	1885	Human Anatomy and Biomechanics	Swartz, Sharon	LAB	
2	1960	Directed Research/Independent Study - See <i>Research</i>	Faculty Advisors		
2	2000C	Molecular Recognition and Signaling in Self and Non-self Interactions	DeLong, Alison/Johnson, Mark		Offered every other year
2	2010B	Introduction to Data Science in Molecular Biology	Neretti, Nicola		S01 & S02 will meet on alternate weeks
2	2018	Management Strategies in Biotechnology	Jong, Yong		
2	2078	Regulatory Affairs in Pharma, Med Device and Digital Health	Mahoney, Karen		
2	2135	Pharmacokinetics and Drug Design	Christian, Donald		
2	2145	Molecular Targets of Drug Discovery	Horrigan, Diana		
2	2167	In Vitro Models for Disease	Schell, Jacquelyn		
2	2170	Molecular Pharmacology and Physiology	Horrigan, Diana		
2	2180	Experiential Learning Industry (ELI)	Schell, Jacquelyn		
2	2240	Biomedical Engineering and Biotechnology Seminar	Tripathi, Anubhav		
2	2350	The Biology of Aging	Tatar, Marc/Sedivy, John	DIV	
2	2440	Topics in Ecology, Evolution and Organismal Biology	S01: Fuxjager, M; S02: Rand, D.		

2	2528	Innovation and Commercialization in Medical Devices, Diagnostics, and Wearables	Analoui, Mostafa		
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