

BioMed Course Summary 2024-25

SEM	BANNER NUMBER	COURSE TITLE	PRIMARY INSTRUCTOR	*FYS/SOPH SEM/LAB/WRIT/CONF/DIV/COEX	ONLINE/HYBRID/REMOTE ACCESSABLE
SUMMER	0800	Principles of Physiology	Smith, Andrea	LAB	Online
SUMMER	1455	Planetary Health: Global Environmental Change and Emerging Infectious Disease	Smith, Katherine		Online
SUMMER	1855	Tropical Medicine & Neglected Tropical Diseases	Martin, Kyle		Online
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	
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	LAB/DIV	
1	0210	Diversity of Life	Kellner, James/Taylor, Sarah	DIV	
1	0220	Discovering Novel Protein Folding Phenotypes of Wild Yeast	Holmes, Will	COEX/LAB	
1	0380	The Ecology and Evolution of Infectious Disease	Weissman, Maya	CONF	
1	0410	Invertebrate Zoology	Ewanchuk, Patrick	LAB/DIV	
1	0470	Genetics	Johnson, Mark/Larschan, Erica/Reenan, Robert/Hall, Jody	LAB	S02-Hybrid
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	0946	Research Design + Quantitative Methods for the Health Sciences	Monteiro, Kristina		**Inactive Fall 2024
1	0960	Independent Study in Science Writing	Faculty Advisors		
1	0940D	Rhode Island Flora: Understanding and Documenting Local Plant Diversity	Kartzinel, Rebecca	SOPH SEM/LAB	
1	1050, 2050	Biology of the Eukaryotic Cell (Grad students register for 2050)	Toth, Chuck	CONF	
1	1070	Biotechnology and Global Health	Schell, Jacquelyn		
1	1090	Polymer Science for Biomaterials	Mathiowitz, Edith	LAB	*Offered every other year **Inactive Fall 2024
1	1100	Cell Physiology and Biophysics	Zimmerman, Anita/ Horrigan, Diana		*No longer offered in Spring

1	1110, 2220	Signal Transduction	Oancea, Elena		
1	1140	Tissue Engineering	Hoffman-Kim, Diane	DIV	
1	1160	Principles of Exercise Physiology	Smith, Andrea	DIV	
1	1222A/2222B	Current Topics in Functional Genomics	Larschan, Erica/Silva-Garcia, Carolos Giovanni		*Also offered Spring 2025 with Dr. Fairbrother
1	1260, 2260	Physiological Pharmacology (Grad students register for 2260)	Marshall, John		S02-Online
1	1270, 2270	Advanced Biochemistry (Grad students register for 2270)	Salomon, Arthur/Alfonzo, Juan		
1	1290	Cancer Biology	Zhitkovich, Anatoly		
1	1300, 2300	Biomolecular Interactions (Grad students register for 2300)	Fawzi, Nicolas	WRIT	Offered every other year
1	1310, 2310	Developmental Biology (Grad students register for 2310)	Wharton, Kristi	LAB (undergrad level only)	
1	1470	Conservation Biology	Sax, Dov		
1	1515, 2015	Conservation in the Genomics Age	Kartzinel, Tyler	LAB/COEX/WRIT	Offered every other year
1	1520	Innate Immunity	Brossay, Laurent		**Inactive Fall 2024
1	1560, 2560	Virology (Grad students register for 2560 Advanced Virology)	Jamieson, Amanda		
1	1565	Survey of Biomedical Informatics	Sarker, Neil		
1	1575, 2075	Evaluation of Health Information Systems	Fraser, Hamish	WRIT	
1	1630/NEUR 1630	Big Data Neuroscience Lab	Fleischmann, Alexander	LAB	
1	1650/NEUR 1650	Structure of the Nervous System	Berson, David	LAB	
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		**Inactive Fall 2024
1	2010A	Introduction to Molecular Research in the Life Sciences	Accornero, Federica		
1	2020	Biotechnology Science and Industry	Huang, Eric		
1	2024	Gene and RNA Therapeutic Development	Simon, Kailene		
1	2030	Foundations for Advanced Study in the Life Sciences	DeLong, Alison/Lisi, George		
1	2089	Biotechnology IP	Holmander, Daniel		
1	2110	Drug and Gene Delivery	Mathiowitz, Edith		Offered every other year
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	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	0190S	Foundations: Phage Hunters, Part II	Zhou, Yang/Taylor, Sarah	FYS/LAB/COEX	
2	0280	Biochemistry	Holmes, Will/Lis, George/Salomon, Arthur/Taylor, Sarah	CONF	
2	0285	Inquiry in Biochemistry: From Gene to Protein Function	Smith, Andrea	LAB/CONF/COEX/WRIT	
2	0420	Principles of Ecology	Witman, Jon	CONF	
2	0430	Evolution of Plant Diversity	Kartzinel, Rebecca	LAB	*L03 - Online
2	0440	Inquiry in Plant Biology: Analysis of Plant Growth, Reproduction and Adaptive Responses	DeLong, Alison/Johnson, Mark	LAB	Offered every other year
2	0450	Evolutionary Behavioral Ecology	Caves, Eleanor		Offered every other year
2	0495	Statistical Analysis of Biological Data	Ramachandran, Sohini	CONF	
2	0500	Cell and Molecular Biology	Valdez, Gregorio/Silva-Garcia, Carlos Giovanni/Lizarraga, Sofia		
2	0510	Introductory Microbiology	Dugan, Aisling	LAB	
2	0610	Modeling Human Disease Using Stem Cells	Toth, Chuck	COEX/LAB	
2	0620	Fermentation to publication: Experimental food microbiology	Belenky, Peter	COEX/LAB	
2	0800	Principles of Physiology	Stein, John/Smith, Andrea	LAB	S02 - Hybrid; S03 - Online
2	0960	Independent Study in Science Writing	Faculty Advisors		
2	1040, 2040	Ultrastructure/Bioimaging	Williams, Geoffrey	LAB	
2	1120	Biomaterials	Dingle, Yu-Ting		**Inactive Spring 2025 -or- **No longer offered

2	1150	Stem Cell Engineering	Darling, Eric	LAB/WRIT	
2	1155	Hormones and Behavior	Fuxjager, Matt		*Offered every other year **Inactive Spring 2025
2	1222A/2222B	Current Topics in Functional Genomics	Fairbrother, William		
2	1250	Host-microbiome Interactions in Health and Disease	Vaishnav, Shipra	DIV	
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	1505	Environmental Physiology	Fuxjager, Matthew		**Inactive Spring 2025
2	1525	Pathogenomics: Analysis, interpretation and applications of microbial genomes	Cuomo, Christina/Siddle, Katherine	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		**Inactive Spring 2025
2	1555	Methods in Biomedical Informatics	Sarker, Neil/Chen, Elizabeth	COEX	
2	1580	Metabolism Across Biological Scales: Integrative Physiology and Pathobiology	Chellappa, Karthikeyani		
2	1600	Development of Vaccines to Infectious Diseases	Beura, Lalit		**Inactive Spring 2025
2	1610/NEUR 1600	Experimental Neurobiology	Stein, John	LAB	
2	1810	21st Century Applications in Cell and Molecular Biology	Dawson, Michelle	WRIT	
2	1820	Environmental Health and Disease	Plavicki, Jessica		
2	1865, 2865	Toxicology (Grad students register for 2865)	Spade, Daniel		**Inactive Spring 2025 S02-Online
2	1885	Human Anatomy and Biomechanics	Swartz, Sharon/Brainerd, Beth	LAB	**Discontinued after Spring 2025
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 **Inactive Spring 2025
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	2025	Foundations in Statistics for Biology and Medicine	Colt, Susannah		
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	Morgan, Jeffrey/Mathiowitz, Edith		
2	2350	The Biology of Aging	Sedivy, John/Tatar, Marc	DIV	
2	2240	Topics in Ecology, Evolution and Organismal Biology	Fuxjager, Matthew		
2	2528	Innovation and Commercialization in Medical Devices, Diagnostics, and Wearables	Analoui, Mostafa		