

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 |

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|---|----------------|--|---|----------------------------|--|
| 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 | | |

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| 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 |

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|---|----------------|---|------------------------------------|----------|---|
| 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 | |
| 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 | | |

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| 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 | | |