

Fall 2025 Molecular Biology

Class No.	Course No.	Title	Instructor	Day / Time / Room	Cr. Hrs.	Semester
12982	MBIOL 6500	Foundations of Molecular Biology	Julia Brasch & Marina Venero Galanternik	M, W, F / 9:00 AM – 11:00 AM / EHSEB 1730	3.0	First Half Semester
This half-semester course welcomes students with diverse backgrounds and experiences to the University of Utah's graduate Molecular Biology Program. We strive to ensure that all students will have a strong foundation in nucleic acid metabolism, gene expression, protein structure and function, genetics and cell biology as you start your first year of graduate school. Basic content will be provided as pre-work and in-class time will be spent applying these concepts to data interpretation, problem-solving and model-building. Content experts will join the course directors to ensure both a consistent course structure as well as cutting-edge expertise and an opportunity to meet several faculty. We will work to create a supportive learning environment where all students can actively participate.						
You will receive a permission code to register for MBIOL 6500						
11889	MBIOL 7570 - 002	Case Studies and Research Ethics	Vasiliki Karahalios	W / 4:00 PM – 5:20 PM / EHSEB 1750	1.0	Second Half Semester
An examination of research integrity and other ethical issues involved in scientific research. Topics may include scientific fraud, conflicts of interest, plagiarism and authorship designation, and the role of science in formulating social policy. This course is designed for graduate students, post-docs and regular faculty in the sciences.						
You will receive a permission code to register for MBIOL 7570						
20867	MBIOL 6490	Introduction to Biostatistics and Probability for Biosciences	Mark Metzstein & Gilliam Stanfield	TH / 12:30 PM – 2:30 PM / EHSEB 1730	2.0	Full Semester
Statistics is the underpinning of scientific research. This course offers a broad introduction to methods for statistical analysis of biological and biomedical data with emphasis on the fundamental concepts of probability analysis and statistical inference and the practical application of these concepts to experimental design and data analysis. The focus will be on real-world examples that students are likely to encounter in their own research. By the end of the course, students will gain a solid foundation for understanding how to apply statistical analysis to their own data, rigorously interpreting the biomedical literature, and seeking out additional knowledge when needed. An additional component of this class will be an introduction to the statistical software R, which is one of the most used statistical packages in many disciplines.						
You will receive a permission code to register for MBIOL 6490						
17724	MBIOL 7960	Research Lab Rotations	-	-	US Citizen - 2.0 International – 3.0	Full Semester
Laboratory rotations for students in the Graduate Program in Molecular Biology. A signed Rotation Verification Form and a copy of the rotation report must be submitted to the Program Office to receive a credit.						
US Citizens, please adjust the credit hour to 2.0. / International Students, please adjust the credit hour to 3.0						
Choose 2 Selectives (see selective list)						Second Half Semester
Students must be registered full time for between 9-12 graduate credit hours.						

*For questions regarding Fall courses please contact Jaylynn Lerma (jaylynn.lerma@utah.edu)

***Classroom assignments may change between the time you register and when classes begin. Please check your class schedule for the latest classroom location information before attending class.**