

Core Required Coursework: Two of the following courses are required for all trainees. Trainees and trainers can suggest substitute courses, but these courses must be graduate level and be for two or more credits. Seminar classes or WIP courses are not considered core courses.

Course Title	Credits	Instructor
BIOGD 4000 Genomics	3	Schimenti
BIOBM 6330 Biosynthesis of Macromolecules	2	Roberts, Wilson
BIOBM 6310 Protein Structure Dynamics and Function	3	Nicholson
BIOBM 6360 Functional Organization of Eukaryotic Cells	3	Brown
BIOBM 6390 The Nucleus	2	Lis
BIOBM 4850 Bacterial Genetics	3	Peters
VETMI 7050 Advanced Immunology	3	Leifer
VTPMD 6660 Advanced Methods in Epidemiology	3	Gröhn
BIOMG 4370 Regulation of cell proliferation, senescence & death	3	
BIOGD 4900 Manipulating the mouse genome	3	Soloway
VETMM 7050 Chemistry & biology of cell signaling	2	Cerione

Graduate level course in biostatistics: Interpretation of statistical tests and knowing the right statistical test to use, are critical skills for scientists. All scholars are required to take one graduate level course in biostatistics. Several courses are available that fulfill this requirement. One example is VTPMD 7070 Clinical Biostatistics (offered in the spring semester).

Instruction in Biomedical ethics and the proper use and care of vertebrate animals: Instruction in the responsible conduct of research (RCR) is mandated by the NIH and Cornell University. Program participants must complete the University's RCR-CITI (Collaborative Institutional Training Initiative) on-line instructional course within one month of their appointment. In addition, all graduate students must enroll and complete a graduate-level bioethics course, BIOMG7510 Ethical Issues and Professional Responsibilities, and participate in the Annual RCR symposium. All trainees working with vertebrate animals are required to complete the appropriate training mandated by the Cornell Center for Animal Resources and Education (CARE)

<https://www.research.cornell.edu/care/>