

Genetics and Genomics PhD – Preparation of Academic Plan

Prerequisites – must be taken by end of their 4th semester (Summer included)		BBMB 4040		STAT 5101 Section 2 or 3	
IGG Required Core Courses grade of B or better Required (12 credits)	GDCB 5100 Transmission Genetics (F)		GDCB 5110 Advanced Molecular Genetics (S)		
	Genetics, Bioinformatics, and Statistical Genetics (one course)				
	_____ ANS 5560 – Current Topics in Genome Analysis (F)		_____ BCB 5680 – Statistical Bioinformatics (S)		
	_____ BCB 5440 – Fundamentals of Bioinformatics (Alt F)		_____ BCB 5690 – Structural Bioinformatics (F)		
_____ BCB 5460 – Computational Skills for Biological Data (S)		_____ COMS 5510 – Genomic Data Science (F)			
_____ BCB 5670 – Bioinformatics Algorithms (F)		_____ STAT 5810 – Analysis of Gene Expressions Data for the Biological Sciences (Alt S)			
Evolution, Population and Quantitative Genetics (one course)					
_____ ANS/AGRON 5610 – Population and Quantitative Genetics for Breeding (F)		_____ EEOB 5610 – Evolutionary and Ecological Genomics (S)			
_____ EEOB 5440 – Introduction to Bioinformatics (Alt F)		_____ EEOB 5630 – Molecular Phylogenetics (S)			
_____ EEOB 5070 – Advanced Animal Behavior (S)		_____ EEOB 5660 – Molecular Evolution (Alt)			
_____ GEN/Biol 4620 – Evolutionary Genetics (F)					
Seminars (6 credits) MS students – 1 time each • GENET 5910 • GENET 6900	Workshop in Genetics (F) GENET 5910 GENET 5910	Conceptual Foundations of Genetics (F) GENET 6920	Graduate Student Seminar (S) GENET 6900 GENET 6900	Faculty Seminar in Genetics (F) GENET 6910	
GRST 5650 - (1 credit) End of first year to meet NIH and NSF requirements must have a “B” or better (F,S)					
Elective courses	Course: Credit:	Course: Credit:	Course: Credit:	Course: Credit:	Course: Credit:
Research GENET 6990 PhD - average 36 credits MS – minimum 3 credits	Year 1 – AY: _____ Fall: _____ Spring: _____ Summer: _____ Year 2 – AY: _____ Fall: _____ Spring: _____ Summer: _____ Year 3 – AY: _____ Fall: _____ Spring: _____ Summer: _____ Year 4 – AY: _____ Fall: _____ Spring: _____ Summer: _____ Year 5 – AY: _____ Fall: _____ Spring: _____ Summer: _____ Year 6 – AY: _____ Fall: _____ Spring: _____ Summer: _____				
Total Count of course credits: _____	Total Count of 6990: _____		Total Complete Count of Credits: _____		

Use research credits to fill up to 72 for PhD and 32 for MS course credit requirement.

Research credits do not count towards your GPA