

Genetics and Genomics PhD – Preparation of Academic Plan

Prerequisites – must be taken by end of their 4th semester (Summer included)		BBMB 4040	STAT 5870 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 5630 – Molecular Phylogenetics (S)			
_____ EEOB 5070 – Advanced Animal Behavior (S)		_____ EEOB 5660 – Molecular Evolution (Alt)			
_____ EEOB 5610 – Evolutionary & Ecological Genomics (S)		_____ GEN/Biol 4620 – Evolutionary Genetics (F)			
Seminars (6 credits) MS students – 1 time each	Workshop in Genetics (F)	Conceptual Foundations of Genetics (F)	Graduate Student Seminar (S)	Faculty Seminar in Genetics (F)	
• GENET 5910 • GENET 6900	GENET 5910 GENET 5910	GENET 6920	GENET 6900 GENET 6900	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:	
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		