

Genetics (MS)

Degree Requirements

Code	Title	Hours	Counts towards
Core Courses			14
GN 701	Molecular Genetics		
GN 702	Cellular and Developmental Genetics		
GN 703	Population and Quantitative Genetics		
GN 810	Special Topics in Genetics (Journal Club)		
GN 850	Professionalism and Ethics		
ST 511	Statistical Methods For Researchers I		
Teaching Requirement			3
GN 685	Master's Supervised Teaching		
Elective Course ^{1, 2}			3
See "Elective Courses" listed below			
Other Elective			3
"Other Elective" is determined in conjunction with the academic committee			
Research Course			9
GN 695	Master's Thesis Research		
Total Hours		32	

¹ Only three hours of these courses may be counted toward the primary elective requirement.

² Other courses that do not appear on this list may be counted if they have substantial genetics content. Please consult with the Director of Graduate Programs if you would like to count a course as an elective that is not on this list.

Elective Courses

Code	Title	Hours	Counts towards
Select a minimum of two courses below:			6
GN 713	Quantitative Genetics and Breeding	3	
GN 721	Genetic Data Analysis	3	
GN 725	Forest Genetics	3	
GN 735	Functional Genomics	3	

GN 740	Evolutionary Genetics	3	
GN 745	Quantitative Genetics In Plant Breeding	1	
GN 750	Developmental Genetics	3	
GN 755	Population Genetics	3	
GN 756	Computational Molecular Evolution	3	
GN 757	Quantitative Genetics Theory and Methods	3	
GN 758	Microbial Genetics & Genomics	3	
GN 761	Advanced Molecular Biology Of the Cell	3	
GN 768	Nucleic Acids: Structure and Function	3	
GN 810	Special Topics in Genetics	1-6	
GN 820	Special Problems	1-6	
ST 590	Special Topics (Bioinformatics I)	1-6	
ST 590	Special Topics (Bioinformatics II)	1-6	
PB 780	Plant Molecular Biology	3	
PB 824	Topical Problems (Topics in Plant Molecular Genetics)	1-4	
BCH 701	Macromolecular Structure	3	
BIT 510	Core Technologies in Molecular and Cellular Biology	4	
BIT 815	Advanced Special Topics	1-6	

Faculty

Full Professors

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