

Genetics (MR)

Degree Requirements

Code	Title	Hours	Counts towards
Core Courses			17
GN 701	Molecular Genetics		
GN 702	Cellular and Developmental Genetics		
GN 703	Population and Quantitative Genetics		
GN 850	Professionalism and Ethics		
ST 511	Statistical Methods For Researchers I		
BCH 451	Principles of Biochemistry		
Elective Courses ^{1, 2}			6
See "Elective Courses" listed below			
Other Electives			8
"Other Electives" are approved in conjunction with the academic committee			
Total Hours			31

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 three 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

Jose Miguel Alonso

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Adam Joseph Birkenheuer

Matthew Breen

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Ralph E. Dewey

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John R. Godwin
Major M. Goodman
Fred L. Gould
Candace Hope Haigler
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Christine Veronica Hawkes
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Steven Lommel
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Coby J. Schal
Maxwell J. Scott
Heike Inge Ada Sederoff
Seth M. Sullivan
William F. Thompson
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Associate Professors

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Adjunct professors

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Alison Anne Motsinger-Reif

Nadia Singh

Emeritus Professors

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