

Graduate Degree Plan PhD in Genetics & Genomics



Students Starting Academic Year: 2020-2021

General Degree Requirements:

- Completion of at least 180 term hours
- At least 30 of those term hours must be in Didactic courses
- Completion of at least three terms of Research Rotation
- Students must maintain satisfactory academic progress as detailed in the Student Handbook

Track Selection:

Genetics & Genomics students may select to pursue the standard PhD curriculum, or can opt to purse a track in Bioinformatics, Genomics, and Systems Biology (BiGSB). The choice between following the regular track or the BigSB track is made during the first week of classes in the student's first year in the program. Additional information is available from genetics-gradprgm@bcm.edu.

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Year O	ne Requiren	nents:		
Term 1:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) (two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) (two-term course)	
	GS-GS-5101	Responsible Conduct of Research 1	1	
	GS-GG-5100	Student Research Seminar	1	
	GS-GG-5030	Research Rotation + Electives	5	Total to Date
		Total:	12 (5)	12 (5)
Term 2:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) (two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) (two-term course)	
	GS-GG-6201	Model Systems Genetics	2 (Didactic)	
	GS-GG-5100	Student Research Seminar	1	
	GS-GG-5030	Research Rotation + Electives	4	Total to Date
		Total:	12 (7)	24 (12)
Term 3:	GS-GG-6204	Method & Logic in Genetics & Genomics	2 (Didactic)	
	GS-GG-6202	Mammalian Genetics (Regular track students)	2 (Didactic)]
	or	or		
	GS-GS-6203	Data Mining (BiGSB track students)		
	GS-GG-5105	Genetics & Genomics Journal Club	1	
	GS-GG-5100	Student Research Seminar	1	
	GS-GS-5105	Scientific Writing	1	
	GS-GG-5030	Research Rotation + Electives	5	Total to Date
		Total:	12 (4)	36 (16)
Term 4:	GS-GG-6302	Human Genetics	3 (Didactic)	
	GS-IY-6303	Fundamentals of Effective Grant Writing	3 (Didactic)	
	GS-GG-5105	Genetics & Genomics Journal Club	1	1
	GS-GG-5100	Student Research Seminar	1	1
	GS-GG	Research Hours + Electives	4	Total to Date
		Total:	12 (6)	48 (22)
Term 5:	GS-GG-5105	Genetics & Genomics Journal Club	1	
	GS-GG	Research Hours + Electives	11	Total to Date
		Total:	12	60 (22)

Year Tv	wo Requiren	nents:				
Term 1:	GS-GG-5100		Research Seminar	1		
	GS-GG		Hours + Electives	11	Total to Date	
		l.	Total:	12	72 (22)	
Term 2:	GS-GG-5100	Student	Research Seminar	1		
	GS-GS-5102		ble Conduct of Research 2	1		
	GS-GG		Hours + Electives	10	Total to Date	
			Total:	12	84 (22)	
Term 3:	GS-GG-5105	Genetics	& Genomics Journal Club	1		
	GS-GG-5100	Student	Research Seminar	1		
	GS-GG	Research	Hours + Electives	10	Total to Date	
			Total:	12	96 (22)	
Student's The	esis Advisory Committ	tee must be a	ppointed by the end of Term 3 in the studen	t's second year of e	enrollment.	
Term 4:	GS-GG-5105	Genetics	& Genomics Journal Club	1		
	GS-GG-5100	Student	Research Seminar	1		
	GS-GG		Hours + Electives	10	Total to Date	
	GD GG	research	Total:	12	108 (22)	
Term 5:	GS-GG-5105	Genetics	& Genomics Journal Club	1		
TOTIMO	GS-GG		Hours + Electives	11	Total to Date	
	5.10		Total:	12	120 (22)	
	l			<u> </u>	red for a total of thirty (30)	
	Requirement			0		
Year 3, Term 3: GS-G		S-5103 Responsible Conduct of Research 3		. 3	1	
Year 4, Te	rm 3: GS-G	S-5104	Responsible Conduct of Research	4	1	
Recurri	ng requireme	nts unt	il Graduation:			
		G-5100 Student Research Seminar			As required	
		G-5050			As required*	
			credits of Dissertation needed to be enrolled full-	time (12 credits) each	term through Graduation.	
Research	n Course Work					
	GS-GG-5010	Readings				
GS-GG-5030 Research Rotation GS-GG-5040 Special Projects						
	GS-GG-5040	-	•			
Addition	al Genetics &	Dissertat				
Muuliioii	GS-GG-5101	Clinical				
	GS-GG-6102		Epidemiology & Population Gene	ties		
	GS-GG-6103		& Genomics of Vision Research	tics		
	GS-GG-6203		Cell Therapy			
	GS-GG-6205		ell Methods & Analysis			
	GS-GG-6401	_	natics & Genomic Analysis			
	GS-GG-6304		evelopment in Medical Genetics			
	GD GG 0004	Juicoi D	*Students may select electives from ope	en course ontions in	all graduate programs	
					raduate Student Bulletin	