

Graduate Degree Plan - Checklist PhD in <u>Genetics & Genomics</u>

Students Starting Academic Year: 2023-2024

Foundations Co	urses (10 credits):									
GS-GS-6600	Foundations A: Molecules to Systems									
GS-GS-6400	Foundations B: Biostatistics	4								
Program Core C	ourses (8 credits):									
GS-GG-6204	Method & Logic in Genetics & Genomics	2								
GS-GG-6302	Human Genetics	3								
GS-GG-6305	Model Systems Genetics	3								
Track-Specific C	Track-Specific Course (choose one based on program track – 2 credits):									
GS-GG-6202	Mammalian Genetics		Regular Track							
GS-GG-6206	Data Mining		BiGSB Track							
Didactic Elective	Didactic Elective Courses (at least 6 credits):									
Responsible Cou	nduct of Research Courses (4 credits):									
GS-GS-5101	Responsible Conduct of Research 1	1								
GS-GS-5102	Responsible Conduct of Research 2	1								
GS-GS-5103	Responsible Conduct of Research 3	1								
GS-GS-5104	Responsible Conduct of Research 4	1								
	velopment Courses (5 credits):	•								
GS-GS-5105	Scientific Writing	1								
GS-IY-6403	Effective Grant Writing	4								
	Il Literature Courses:	-								
GS-GG-5100	Student Research Seminar	1								
Required i	n terms 1-4 every year from matriculation through attainment of Permissior	-To-Write.								
GS-GG-5105	Genetics & Genomics Journal Club	1	8 total cr.							
•	Required in terms 2-5 for the first two yea	rs of study.								
Research Hour	'S:									
In each term, studen	ts enroll in the number of credits [beyond other coursework] need	ed to be e	enrolled full-time							
(minimum 3 per tern	n)									
GS-GG-5030	Research Rotation	Var.								
	Taken each term when a mentor is not appointed (minimu	m 3 terms)								
GS-GG-5040	Special Projects	Var.								
	Taken each term after a mentor is appointed, and before candidacy i									
GS-GG-5050	Dissertation	Var.								
	Taken each term after a mentor is appointed, and after candidacy i	s achieved.								



Graduate Degree Plan - Schedule PhD in <u>Genetics & Genomics</u>



Students Starting Academic Year: 2023-2024

General Degree Requirements:

Year One Requirements:

GS-GG-5105

- 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 before appointing a major advisor
- 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 July prior to the student's first year in the program. Additional information is available from genetics-gradprgm@bcm.edu.

Term 1:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic)	
	00.00.0100		(two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic)	
	GS-GS-5101	Responsible Conduct of Research 1	(two-term course)	
	GS-GG-5100	Student Research Seminar	1	
	G3-GG-3100	Research Rotation/Elective Courses	5	Total to Date
		Total:	+	Total to Date 12 (5)
T 2	CC CC ((00		` ′	12 (3)
Term 2:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) (two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic)	
	33 33 0 100	Touridations B. Biostatistics	(two-term course)	
	GS-GG-6305	Model Systems Genetics	3 (Didactic)	
	GS-GG-5100	Student Research Seminar	1	
		Research Rotation/Elective Courses	3	Total to Date
		Total:	12 (8)	24 (13)
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-GG-6206	Data Mining (BiGSB track students)		
	GS-GS-5105	Scientific Writing	1	
	GS-GG-5100	Student Research Seminar	1	
	GS-GG-5105	Genetics & Genomics Journal Club	1	
		Research Rotation/Elective Courses	5	Total to Date
		36 (17)		
Term 4:	GS-GG-6302	Human Genetics	3 (Didactic)	
	GS-IY-6403	Effective Grant Writing	4 (Didactic)	
	GS-GG-5100	Student Research Seminar	1	
		1		

Genetics & Genomics Journal Club

Research Hours/Elective Courses

Total to Date

48 (24)

1

3

Total: 12 (7)

Term 5:	GS-GG-5105	Genetics	& Genomics J	ournal Club		1	
		Research	Hours/Elective	e Courses		11	Total to Date
					Total:	12	60 (24)
Year Two	o Requiren	nents:					
Term 1:	GS-GG-5100	Student F	Research Semi	nar		1	
		Research	Hours/Electiv	e Courses		11	Total to Date
					Total:	12	72 (24)
Term 2:	GS-GS-5102	Responsi	ole Conduct o	f Research 2		1	
	GS-GG-5100	Student Research Seminar 1					
		Research Hours/Elective Courses 10					Total to Date
		1			Total:	12	84 (24)
Term 3:	GS-GG-5100	Student F	Research Semi	nar		1	
	GS-GG-5105	Genetics & Genomics Journal Club 1					
		Research	Hours/Elective	e Courses		10	Total to Date
					Total:	12	96 (24)
Student's	Thesis Advisory Co	ommittee mi	ıst be appointed	d by the end of Te	erm 3 in ti	he student's seco	nd year of enrollment.
Term 4:	GS-GG-5100	Student F	Research Semi	nar		1	
	GS-GG-5105	Genetics	& Genomics J	ournal Club		1	
		Research	Hours/Electiv	e Courses		10	Total to Date
		l	·		Total:	12	108 (24)
Term 5:	GS-GG-5105	Genetics	& Genomics J	ournal Club		1	,
			Hours/Elective			11	Total to Date
		I.	•		Total:	12	120 (24)
	<u> </u>			Six additional dia	dactic hou	ırs are required fo	or a total of thirty (30)
Must I	Exam Require be taken by the nt must complete	end of the	•		heir prog	gram before tak	king the exam
Course Rec	quirements be	yond Yea	r Two:				
Year 3, Term	3: GS-GS	S-5103	Responsible	Conduct of Res	earch 3		1
Year 4, Term	3: GS-GS	S-5104	•	Conduct of Res			1
Recurring	requirements	until Gra					
Terms 1-4:	GS-G0	G-5100	Student Rese	earch Seminar			As required*
Terms 1-5:		G-5050	Dissertation				As required*
*Students shall	enroll in the number	er of credits of	Dissertation nee	eded to be enrolled	full-time ((12 credits) each te	rm through Graduation.
Research C	Course Work:						
	GS-GG-5010 GS-GG-5030	Readings Research	Rotation				
	GS-GG-5040	Special P	ojects				
	GS-GG-5050	Dissertati		44			
	Genetics & G		program co				
GS-GG-5101				GS-GG-6205	_	Cell Methods 8	•
GS-GG-6102	! Genetics Epic Population G	Epidemiology & GS-GG-6207 Career Development in Medical Genetics					
GS-GG-6203	Gene & Cell	Therapy		GS-GG-6301	Bioinfo	ormatics & Gen	omic Analysis
		*Students	may select el				graduate programs. <u>uate School Bulletin</u>