

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

Students Starting Academic Year: 2023-2024

	urses (10 credits):	6						
GS-GS-6600	Foundations A: Molecules to Systems							
GS-GS-6400								
Program Core C	Courses (8 credits):							
GS-GG-6204	Method & Logic in Genetics & Genomics	2						
GS-GG-6302	Human Genetics	3						
GS-GG-6305								
Track-Specific C	Course (choose one based on program track – 2 crec	lits):						
GS-GG-6202	Mammalian Genetics		Regular Track					
GS-GG-6206	Data Mining		BiGSB Track					
Didactic Electiv	e Courses (at least 6 credits):							
	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						
Professional De	velopment Courses (5 credits):							
GS-GS-5105	Scientific Writing	1						
GS-IY-6403	Effective Grant Writing	4						
Seminar/Journa	al Literature Courses:							
GS-GG-5100	Student Research Seminar	1						
Required	in terms 1-4 every year from matriculation through attainment of Permission	-To-Write.						
GS-GG-5105	Genetics & Genomics Journal Club	1	8 total cr.					
	Required in terms 2-5 for the first two year	rs of study.						
Research Hou	rs:							
	ts enroll in the number of credits [beyond other coursework] need	ed to be e	enrolled full-time					
(minimum 3)								
GS-GG-5030	Research Rotation	Var.						
	Taken each term when a mentor is not appointed (minimu							
GS-GG-5040	Special Projects	Var.						
	Taken each term after a mentor is appointed, and before candidacy is							
GS-GG-5050	Dissertation	Var.						
	Taken each term after a mentor is appointed, and after candidacy is	s achieved.						



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

graduate SCHOOL

Students Starting Academic Year: 2023-2024

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 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.

Year One Requirements:

	ne kequiren	ients.		
Term 1:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) (two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic)	
l			(two-term course)	
	GS-GS-5101	Responsible Conduct of Research 1	1	
l	GS-GG-5100	Student Research Seminar	1	
l		Research Rotation/Elective Courses	5	Total to Date
L		Total:	12 (5)	12 (5)
Term 2:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic)	
1			(two-term course)	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic)	
1			(two-term course)	
1	GS-GG-6305	Model Systems Genetics	3 (Didactic)	
	GS-GG-5100	Student Research Seminar	1	
		Research Rotation/Elective Courses	3	Total to Date
L		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)	
1	or	or		
1	GS-GG-6206	Data Mining (BiGSB track students)		
1	GS-GS-5105	Scientific Writing	1	
l	GS-GG-5100	Student Research Seminar	1	
1	GS-GG-5105	Genetics & Genomics Journal Club	1	
				T
l		Research Rotation/Elective Courses	5	Total to Date
		Research Rotation/Elective Courses Total:		1 otal to Date 36 (17)
Term 4:	GS-GG-6302			
Term 4:	GS-GG-6302 GS-IY-6403	Total:	12 (4)	
Term 4:		Total: Human Genetics	12 (4) 3 (Didactic)	
Term 4:	GS-IY-6403	Total: Human Genetics Effective Grant Writing	12 (4) 3 (Didactic)	
Term 4:	GS-IY-6403 GS-GG-5100	Total: Human Genetics Effective Grant Writing Student Research Seminar	12 (4) 3 (Didactic) 4 (Didactic) 1	

	GS-GG-5105	Genetics	& Genomics Journal Club		1	
		Research	Hours/Elective Courses		11	Total to Date
				Total:	12	60 (24)
Year Tw	o Requiren	nents:				
Term 1:	GS-GG-5100	1	Research Seminar		1	
1			Hours/Elective Courses		11	Total to Date
				Total:	12	72 (24)
Term 2:	GS-GS-5102	Responsi	ble Conduct of Research 2		1	
	GS-GG-5100	Student Research Seminar			1	
		Research Hours/Elective Courses			10	Total to Date
				Total:	12	84 (24)
Term 3:	GS-GG-5100	Student F	Research Seminar		1	
	GS-GG-5105	Genetics & Genomics Journal Club			1	
		Research	Hours/Elective Courses		10	Total to Date
				Total:	12	96 (24)
Student'	s Thesis Advisory Co	ommittee mu	ust be appointed by the end of Te	erm 3 in tl	he student's se	econd year of enrollment.
Term 4:	GS-GG-5100	Student F	Research Seminar		1	
	GS-GG-5105	Genetics	& Genomics Journal Club		1	
		Research	Hours/Elective Courses		10	Total to Date
			·	Total:	12	108 (24)
Term 5:	GS-GG-5105	Genetics	& Genomics Journal Club		1	
		Research	Hours/Elective Courses		11	Total to Date
		.1.		Total:	12	120 (24)
	<u></u>		Six additional dic	dactic hou	irs are require	d for a total of thirty (30)
MustStude	•	end of the te all prerec	second year of enrollment quisite activities defined by th	heir pro <u>c</u>	gram before	taking the exam
Course Re	equirements be	yonu rea	ar rwo.			
Veer 2 Terr		Γ100		a a wala D		1
Year 3, Terr		S-5103	Responsible Conduct of Res			1
Year 4, Terr	n 3: GS-GS	S-5104	Responsible Conduct of Res Responsible Conduct of Res			1
Year 4, Terr Recurring	m 3: GS-GS	S-5104 until Gra	Responsible Conduct of Res Responsible Conduct of Res duation:			1
Year 4, Terr Recurring Terms 1-4:	n 3: GS-GS requirements GS-GG	S-5104 until Gra G-5100	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar			1 As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5:	n 3: GS-GS requirements GS-GG GS-GG	S-5104 until Gra G-5100 G-5050	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation	earch 4	(12 crodits) page	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha	m 3: GS-GS requirements GS-GO GS-GO ll enroll in the number	S-5104 until Gra G-5100 G-5050	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar	earch 4	12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha	m 3: GS-GS requirements GS-GG GS-GG Il enroll in the number Course Work:	S-5104 until Gra G-5100 G-5050 er of credits of	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation f Dissertation needed to be enrolled	earch 4	(12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha	m 3: GS-GS requirements GS-GO GS-GO ll enroll in the number Course Work: GS-GG-5010	S-5104 until Gra G-5100 G-5050 er of credits of Readings	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation <i>f Dissertation needed to be enrolled</i>	earch 4	12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha	m 3: GS-GS requirements GS-GC GS-GC <i>Il enroll in the numbe</i> Course Work: GS-GG-5010 GS-GG-5030	S-5104 until Gra G-5100 G-5050 <i>er of credits of</i> Readings Research	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation <i>f Dissertation needed to be enrolled</i> Rotation	earch 4	(12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha	m 3: GS-GS requirements GS-GG GS-GG <i>ll enroll in the numbe</i> Course Work: GS-GG-5010 GS-GG-5030 GS-GG-5040	5-5104 until Gra G-5100 G-5050 er of credits op Readings Research Special Pr	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation <i>f Dissertation needed to be enrolled</i> Rotation rojects	earch 4	12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha Research	m 3: GS-GS requirements GS-GC GS-GC <i>ll enroll in the numbe</i> Course Work: GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5050	S-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pi Dissertati	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation <i>f Dissertation needed to be enrolled</i> Rotation rojects on	earch 4	(12 credits) eac	1 As required* As required*
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha Research	m 3: GS-GS GS-GG GS-GG Il enroll in the number GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5050 GS-GG-5050 GS-GG-5050 GS-GG-5050	5-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pr Dissertati enomics	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation <i>f Dissertation needed to be enrolled</i> Rotation rojects	full-time (1 As required* As required* h term through Graduation.
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha Research Additiona	m 3: GS-GS GS-GC GS-GC Il enroll in the number GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5040 GS-GG-5050 Il Genetics & G Il Clinical Gene	S-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pr Dissertati enomics ttics	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation f Dissertation needed to be enrolled Rotation rojects on program courses offered GS-GG-6205	earch 4	Cell Method	As required* As required* h term through Graduation.
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha Research Additional GS-GG-510	m 3: GS-GS GS-GC GS-GC Il enroll in the number GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5040 GS-GG-5050 Il Genetics & G Il Clinical Gene	S-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pr Dissertati enomics tics demiology	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation f Dissertation needed to be enrolled Rotation rojects on program courses offered GS-GG-6205	earch 4	Cell Method	1 As required* As required* As required* h term through Graduation.
Year 4, Terr Recurring Terms 1-4: Terms 1-5: *Students sha Research Additiona GS-GG-510	m 3: GS-GS requirements GS-GC GS-GC Course Work: GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5040 GS-GG-5050	S-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pr Dissertati enomics tics demiology ienetics	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation f Dissertation needed to be enrolled Rotation rojects on program courses offered GS-GG-6205	full-time (Single Career Geneti	Cell Method Developme cs	As required* As required* h term through Graduation.
Year 4, Terr Recurring Terms 1-4: Terms 1-5: * <i>Students sha</i> Research Additional GS-GG-510 GS-GG-610	m 3: GS-GS requirements GS-GC GS-GC Course Work: GS-GG-5010 GS-GG-5030 GS-GG-5040 GS-GG-5040 GS-GG-5050	S-5104 until Gra G-5100 G-5050 er of credits of Readings Research Special Pr Dissertati enomics tics demiology ienetics Therapy	Responsible Conduct of Res Responsible Conduct of Res duation: Student Research Seminar Dissertation f Dissertation needed to be enrolled Rotation rojects on program courses offered GS-GG-6205 & GS-GG-6207	earch 4	Cell Method Developme cs ormatics & C	As required* As required* As required* h term through Graduation. ds & Analysis ent in Medical Genomic Analysis