

Graduate Degree Plan – PhD in Chemical, Physical, & Structural Biology

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

Year One Requirements:

Term 1:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) <i>(two-term course)</i>	Total to Date
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) <i>(two-term course)</i>	
	GS-CP-6304	Molecular Biophysics 1	3 (Didactic)	
	GS-CP-5101	Thinking Like a Scientist 1	1	
	GS-GS-5101	Responsible Conduct of Research 1	1	
	GS-CP-5100	Student Research Seminar	1	
	GS-CP-5030	Research Rotation	1	
Total:			12 (8)	12 (8)
Term 2:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) <i>(two-term course)</i>	Total to Date
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) <i>(two-term course)</i>	
	GS-CP-6202	Thinking Like a Scientist 2	2 (Didactic)	
	GS-CP-5100	Student Research Seminar	1	
	GS-CP-5030	Research Rotation ± Electives	4	
Total:			12 (7)	24 (15)
Term 3:	GS-CP-6203	Thinking Like a Scientist 3	2 (Didactic)	Total to Date
	GS-CP-5100	Student Research Seminar	1	
	GS-CP-5030	Research Rotation ± Electives	9	
Total:			12 (2)	36 (17)
Term 4:	GS-CP-6204	Thinking Like a Scientist 4	2 (Didactic)	Total to Date
	GS-CP-5100	Student Research Seminar	1	
	GS-CP	Research Hours ± Electives	9	
Total:			12 (2)	48 (19)
Term 5:	GS-CP	Research Hours ± Electives	12	Total to Date
	Total:			

Year Two Requirements:

Term 1:	GS-CP-5100	Student Research Seminar	1	Total to Date
	GS-CP	Research Hours ± Electives	11	
Total:			12	72 (19)
Term 2:	GS-GS-5102	Responsible Conduct of Research 2	1	Total to Date
	GS-CP-5100	Student Research Seminar	1	
	GS-CP	Research Hours ± Electives	10	
Total:			12	84 (19)

Term 3:	GS-CP-5100	Student Research Seminar	1	Total to Date
	GS-CP	Research Hours ± Electives	11	
	Total:			12

Student's Thesis Advisory Committee must be appointed by the end of Term 3 in the student's second year of enrollment.

Term 4:	GS-CP-5100	Student Research Seminar	1	Total to Date
	GS-CP	Research Hours ± Electives	11	
	Total:			12

Term 5:	GS-CP	Research Hours ± Electives	12	Total to Date
			12	120 (19)

Eleven additional didactic hours are required for a total of thirty (30)

Qualifying Exam Requirement:

- Must be taken by the end of the second year of enrollment
- Student must complete all prerequisite activities defined by their program before taking the exam

Course Requirements beyond Year Two:

Year 3, Term 3:	GS-GS-5103	Responsible Conduct of Research 3	1
Year 4, Term 3:	GS-GS-5104	Responsible Conduct of Research 4	1

Recurring requirements through Graduation:

Terms 1-4:	GS-CP-5100	Student Research Seminar	Annually
Terms 1-5:	GS-CP-5050	Dissertation	As required*

**Students shall enroll in the number of credits of Dissertation needed to be enrolled full-time (12 credits) each term through Graduation.*

Research Course Work:

GS-CP-5010	Readings
GS-CP-5030	Research Rotation
GS-CP-5040	Special Projects
GS-CP-5050	Dissertation

Suggested Electives*

Chemical Biology/Pharmacology Emphasis

GS-CP-6401	General Pharmacology	4(D)
GS-CP-6302	Chemical Concepts in Chemical Biology	3(D)
GS-CP-6205	Chemical Biology	2(D)
GS-CP-6206	Drug Discovery	2(D)

Suggested Electives*

Structural Biology/Biophysics Emphasis

GS-CP-6305	Molecular Biophysics 2	3(D)
GS-CP-6301	Advanced X-ray Crystallography	3(D)
GS-CP-6207	Electron Cryomicroscopy	2(D)

**Students may select electives from open course options in all graduate programs. Courses may be viewed in the [Graduate Student Bulletin](#)*