



Course Requirement Checklist

PhD in Chemical, Physical, & Structural Biology

Students Starting Academic Year: 2025-2026

Foundations Courses (10 credits):				
GS-GS-6600	Foundations A: Molecules to Systems	6		
GS-GS-6400	Foundations B: Biostatistics	4		
Program Core Course (3 credits):				
GS-CP-6301	Molecular Biophysics 1	3		
Didactic Elective Courses (at least 9 credits):				
Responsible Conduct 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 Development Courses (9 credits):				
GS-CP-5101	Scientific Thinking 1: Research Principles & Practices	1		
GS-CP-6202	Scientific Thinking 2: Critical Literature Analysis	2		
GS-CP-6306	Scientific Thinking 3: Writing & Defending Proposals I	3		
GS-CP-6307	Scientific Thinking 4: Writing & Defending Proposals II	3		
Seminar/Journal Literature Courses:				
GS-CP-5100	Student Research Seminar	1		
<i>Required in terms 1-4 every year from matriculation through attainment of Permission-To-Write.</i>				
Research Hours:				
In each term, students enroll in the number of credits [beyond other coursework] needed to be enrolled full-time (minimum 3 per term)				
GS-CP-5030	Research Rotation	Var.		
<i>Taken each term when a mentor is not appointed (minimum 3 terms)</i>				
GS-CP-5040	Special Projects	Var.		
<i>Taken each term after a mentor is appointed, and before candidacy is achieved.</i>				
GS-CP-5050	Dissertation	Var.		
<i>Taken each term after a mentor is appointed, and after candidacy is achieved.</i>				

Graduate Degree Plan

PhD in Chemical, Physical, & Structural Biology

Students Starting Academic Year: 2025-2026

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

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-GS-5101	Responsible Conduct of Research 1	1	
	GS-CP-6304	Molecular Biophysics 1	3 (Didactic)	
	GS-CP-5101	Scientific Thinking 1: Research Principles & Practices	1	
	GS-CP-5100	Student Research Seminar	1	
	GS-CP-5030	Research Rotation	3	
	Total:			14 (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	Scientific Thinking 2: Critical Literature Analysis	2 (Didactic)	
	GS-CP-5100	Student Research Seminar	1	
		Research Rotation/Elective Courses	4	
	Total:			12 (7)
Term 3:	GS-CP-6306	Scientific Thinking 3: Writing & Defending Proposals I	3 (Didactic)	Total to Date
	GS-CP-5100	Student Research Seminar	1	
		Research Rotation/Elective Courses	8	
	Total:			12 (3)
Term 4:	GS-CP-6307	Scientific Thinking 4: Writing & Defending Proposals II	3 (Didactic)	Total to Date
	GS-CP-5100	Student Research Seminar	1	
		Research Hours/Elective Courses	8	
	Total:			12 (3)
Term 5:		Research Hours/Elective Courses	12	Total to Date
	Total:			

Year Two Requirements:

Term 1:	GS-CP-5100	Student Research Seminar	1	Total to Date
		Research Hours/Elective Courses	11	
	Total:			12

Term 2:	GS-GS-5102	Responsible Conduct of Research 2	1	Total to Date 86 (21)
	GS-CP-5100	Student Research Seminar	1	
		Research Hours/Elective Courses	10	
	Total:		12	
Term 3:	GS-CP-5100	Student Research Seminar	1	Total to Date 98 (21)
		Research Hours/Elective Courses	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 110 (21)
		Research Hours/Elective Courses	11	
	Total:		12	
Term 5:		Research Hours/Elective Courses	12	Total to Date
			12	122 (21)
Nine additional didactic hours are required for a total of thirty (30)				
Qualifying Exam Requirement:				
<ul style="list-style-type: none">• 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	As required*	
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-6205	Chemical Biology	2	
GS-CP-6206	Drug Discovery: Bench to Bedside	2	
GS-CP-6208	Pharmacology Concepts in Drug Discovery & Development	2	

Suggested Electives*			
Structural Biology/Biophysics Emphasis			
GS-CP-6305	Molecular Biophysics 2	3	
GS-CP-6301	Advanced X-ray Crystallography	3	
GS-CP-6207	Electron Cryomicroscopy	2	

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