

Biophysics Graduate Student Requirements & Benchmarks

This is a snapshot of the requirements of your PhD program in Biophysics. For details on any of these requirements, you should consult the Graduate School and/or Biophysics Field websites. Pay attention to administrative benchmarks and deadlines; these are a part of your program and are your responsibility. If you have questions, do not hesitate to ask!

Benchmarks/Requirements by Year*			
Year	Benchmark	Deadline	
First Year	Meet with DGS before classes start to choose first-year classes	Prior to the start of classes	
	Student Center – indicate DGS as Temporary Chair	Within 2 weeks of registration	
	Rotations (3): Three 8-week rotations are required of all	1 st - 09/1-12/17	
	incoming graduate students. Approximate dates listed on right.	2 nd - 1/1-3/13	
		3 rd - 3/16-5/10	
	Choose Special Committee Chair	Before August 15	
	Online training through Cornell Office of Research Integrity and	Prior to the end of the student's	
	Assurance (ORIA) in authorship, peer review, and avoidance of	second registered semester	
	research misconduct		
	Conflict of Interest Form (training grant appointees)	By end of first academic year	
Second Year	Take Ethics course BIOMG 7510 .	Fall of second year	
	Each student makes a half-hour formal presentation of their	Beginning in the summer after	
	research results to the other students and faculty annually in	the second year (and every year	
	the summer.	following)	
Third Year	A-exam: Schedule of Exam form must be filed 7 days prior to	Before the 5 th semester of	
	the exam; submit the results form within 3 days after the exam.	registration	
Fourth Year	Thesis Research!		
Fifth Year	B-Exam: Schedule of Exam form must be filed 7 days prior to	At least 2 semesters between A &	
	the exam; submit the results form within 3 days after the exam.	B exams. Typically, Biophysics	
		students graduate in 5-6 years.	

^{*}Refer to page 2 for course requirements.

Annual Requirements		
Registration	Make sure there are no holds on your account that prevent your registration each semester.	
Three (3) times a year	You must be registered by sixth week of classes or you will no longer be registered as a grad	
Fall, Spring & Summer	student. You must register for the summer in order to use university facilities (i.e. libraries)	
	and avoid having with-holding taxes taken out of your check.	
Course Enrollment	Federal regulations require 12 credits of courses every semester . The Graduate School will	
	automatically enroll you in 12 credit hours of dissertation research at the start of the Fall and	
	Spring semesters. Enroll in any required/desired classes. Credit hours of the GRAD course	
	will be adjusted accordingly after course enrollment is completed.	
	Enroll in GRAD research course in the summer semester.	
Presentation of research	Beginning in the summer after the second year, each student makes a half-hour formal	
	presentation of their research results to the other students and faculty.	
Progress Report	Must be submitted after annual meeting with the Special Committee (post Biophysics	
	seminar).	
Biophysics Seminars	Attend the weekly 4PM Wednesday Biophysics seminars	
Frontiers in Biophysics	Attend every annual all-day seminar (held annually in early Fall) Register for BIOMG 4310	



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Course Requirements by Year			
Every year	Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
First Year	Typical course load: Fall semester: two lecture courses plus first rotation. Winter Break: second rotation starts Spring semester: two or three lecture courses, the third rotation Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
Carachy	Courses required for minor and BIOMG 7510: Ethical Issues & Professional Responsibilities.		
Second Year	Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
	Recommended: BIOMG 8380 to learn proposal writing		
Prior to A-exam First Year & Second Year	 Advanced Mathematics: One semester of mathematics beyond 4 semesters at the elementary undergraduate level is required, two semesters recommended. For a 1-semester course, CHEM 7870 is recommended. Appropriate 2-semesters sequences are: (AEP 3200 and AEP 4200), (AEP4210 and AEP4220). Physical Chemistry: One course in statistical mechanics and thermodynamics (PHYS 6562 or PHYS 7653 or CHEM 7950 or CHEM 7960) and one course in quantum mechanics (CHEM 3890 or CHEM 7930 or PHYS 4443 or PHYS 6572). Biochemistry, Molecular and Cell Biology: If you have not had basic biochemistry, take BIOMG 3300, or BIOMG 3310 plus BIOMG 3320). To meet the Field requirement: cell biology BIOMG 4320 or 6360 or 4370, or biochem lab BIOMG 4400, or BIOMG 6310 or 6390, with at least a total of five credits at the 400 level or higher. Computer Literacy or Laboratory Electronics and Instrumentation: In lieu of undergraduate experience, computer experience may be gained through either appropriate courses or research experience. Expertise in instrumentation electronics, if not previously acquired, is available through PHYS 3360 or AEP 3630. Advanced Studies in Molecular Biophysics and Associated Areas of Biological and Physical Science: At least three credits are required. This is typically a graduate course in the area of your thesis work. Ethics: A course in scientific ethics BIOMG 7510 is required of all students. 		
Third Year	Thesis research Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
Fourth Year	Thesis research Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
Fifth Year	Thesis research		
& Beyond	& Beyond Register for the Frontiers in Biophysics (enroll in BIOMG 4310)		
	General Course Requirements		

Consult with the DGS and/or with members of their Special Committee regarding appropriate courses. Courses that are taken to satisfy requirements should be taken for a letter grade. A minimum of "B" grade is expected. **Only one** required course may be taken Pass/Fail.