

## Molecular Microbiology Degree Plan

First year DBS students take 12 credit hours in fall and spring, and 6 credit hours in the summer semesters. In subsequent years they are enrolled in 9 credit hours in fall and spring, and 6 credit hours in the summer. Typically, didactic coursework is completed in the first year, and in subsequent years students are enrolled in dissertation research and a combined work-in-progress seminar (WIP)/journal club totaling full-time enrollment equivalency. Advancement of the student to Ph.D. candidacy is dependent upon successful completion of all coursework and the qualifying examination, which takes place in the second year.

Year	Term	Half/ Full	Title	Credit Hour	Total Credit Hrs/Term
First Year	Fall	1 <sup>st</sup> Half	Core Curriculum - Genes	2	
			Core Curriculum - Proteins	2	
		2 <sup>nd</sup> Half	Core Curriculum - Cells	2	
			Principles of Microbiology	2	
		Full	Professionalism, Responsible Conduct of Research, and Ethics I	1	
	Full	Laboratory Rotations	3	Semester Total: 12	
	Spring	1 <sup>st</sup> Half	Microbes and the Immune System	1	
			Molecular Microbiology I: Bacterial Genetics and Pathogenesis	2.5	
		2 <sup>nd</sup> Half	Molecular Microbiology II: Viral Genetics and Pathogenesis	2.5	
			Professionalism, Responsible Conduct of Research, and Ethics II	1	
		Full	Intro to Biostatistics & Bioinformatics	2	
	Full	Laboratory Rotations	3	Semester Total: 12	
Summer		Research	6	Semester Total: 6	
Second Year	Fall	Full	Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
	Spring	Full	Dissertation Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
Summer		Dissertation Research	6	Semester Total: 6	
Third Year	Fall	Full	Dissertation Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
	Spring	Full	Dissertation Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
Summer		Dissertation Research	6	Semester Total: 6	
Fourth Year & Beyond	Fall	Full	Dissertation Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
	Spring	Full	Dissertation Research	7	
			Contemporary Topics / Journal Club	1	
			Seminar	1	Semester Total: 9
Summer		Dissertation Research	6	Semester Total: 6	
Minimum Credit Hours for PhD				102	