

Cell and Molecular Biology 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, by December of the second year students are enrolled in dissertation research and a work-in-progress seminar (WIP) 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 st Half	Core Curriculum - Genes	2	
			Core Curriculum - Proteins	2	
		2 nd Half	Core Curriculum - Cells	2	
			Professionalism, Responsible Conduct of Research, and Ethics I	1	
	Spring	1 st Half	Laboratory Rotations	5	Semester Total: 12
			CMB 5107 Cellular Signaling	1.5	
		2 nd Half	Advanced Elective Coursework*	1.5	
			CMB 5130 Current Topics in Cell Biology	1.5	
		Full	Advanced Elective Coursework*	1.5	
			Professionalism, Responsible Conduct of Research, and Ethics II	1	
	Summer	Full	Introduction to Biostatistics and Bioinformatics	2	
			Laboratory Rotations	3	Semester Total: 12
			CMB 5094 Research	6	Semester Total: 6
Second Year	Fall	Full	CMB Grant Writing	1.5	
			CMB 5094 Research	6.5	
		CMB 5097 Work-In-Progress (WIP) Seminar and	1	Semester Total: 9	
	Spring	Full	CMB 5094 Research	8	
			CMB 5097 Work-In-Progress (WIP) Seminar	1	Semester Total: 9
	Summer	Full	CMB 5099 Dissertation Research	6	Semester Total: 6
Third Year	Fall	Full	CMB 5099 Dissertation Research	8	
			CMB 5097 Work-In-Progress (WIP) Seminar and Journal Club	1	Semester Total: 9
	Spring	Full	CMB 5099 Dissertation Research	8	
			CMB 5097 Work-In-Progress (WIP) Seminar and Journal Club	1	Semester Total: 9
	Summer	Full	CMB 5099 Dissertation Research	6	Semester Total: 6
Fourth Year & Beyond	Fall	Full	CMB 5099 Dissertation Research	8	
			CMB 5097 Work-In-Progress (WIP) Seminar and Journal Club	1	Semester Total: 9
	Spring	Full	CMB 5099 Dissertation Research	8	
			CMB 5097 Work-In-Progress (WIP) Seminar and Journal Club	1	Semester Total: 9
	Summer	Full	CMB 5099 Dissertation Research	6	Semester Total: 6
Minimum Credit Hours for PhD				102	

*Students are required to complete a total of 3 credit hours of advanced elective coursework that can be chosen from any course within the Division of Basic Science. These may be taken as in either the Fall or Spring semester. Rotation hours will be adjusted accordingly. A frequent choice of elective is Mechanisms of Drug Action, offered as a full semester course (3 credit hours) in the spring of the first year. For additional listings of elective and advanced elective courses available, see each program's course descriptions webpage.