

## Genetics, Development and Disease 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 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 <sup>st</sup> Half	Core Curriculum - Genes	2	
			Core Curriculum - Proteins	2	
		2 <sup>nd</sup> Half	Core Curriculum - Cells	2	
			Gene Expression	2	
		Full	Professionalism, Responsible Conduct of Research, and Ethics I	1	
	Full	Laboratory Rotations	3	Semester Total: 12	
	Spring	1 <sup>st</sup> Half	Advanced Genetics– Model Systems and Beyond	1.5	
		Full	Developmental Principles in Regenerative Science and Medicine	3	
		Full	Introduction to Biostatistics and Bioinformatics	2.0	
		Full	Professionalism, Responsible Conduct of Research, and Ethics II	1	
Full		Laboratory Rotations	4.5	Semester Total: 12	
Summer		Research	6	Semester Total: 6	
Second Year	Fall	Full	Current Topics in Genetics, Development, and Disease	1	
			Work-in-Progress Seminar (WIP)	1	
			Research	7	Semester Total: 9
	Spring	Full	Hypothesis-Driven Grantsmanship	1.5	
			Current Topics in Genetics, Development, and Disease	1	
			Work-in-Progress Seminar (WIP)	1	
			Research	5.5	Semester Total: 9
	Summer		Dissertation Research	6	Semester Total: 6
Third Year	Fall	Full	Work-in-Progress Seminar (WIP)	1	
			Dissertation Research	8	Semester Total: 9
	Spring	Full	Work-in-Progress Seminar (WIP)	1	
			Dissertation Research	8	Semester Total: 9
	Summer		Dissertation Research	6	Semester Total: 6
Fourth Year & Beyond	Fall	Full	Work-in-Progress Seminar (WIP)	1	
			Dissertation Research	8	Semester Total: 9
	Spring	Full	Work-in-Progress Seminar (WIP)	1	
			Dissertation Research	8	Semester Total: 9
	Summer		Dissertation Research	6	Semester Total: 6
<b>Minimum Credit Hours for PhD</b>					<b>102</b>

Students may choose to take any electives of their choice in addition to the program's degree requirements.

For listings of elective and advanced elective courses available, see each program's course descriptions webpage.