

Coursework for PhD, Bioinformatics Track after BS Degree

Requirements		Hours
Core Required Courses		
BME 617	Engineering Analysis	3
or ME 661	Math Methods in EGR I	
BME 701	Seminar in Biomedical Engineering ¹	3
BME 770	Quantitative Physiology ²	3
BME 773	Lab Rotation ³	3
BST 621	Statistical Methods I ⁴	3
GRD 717	Principles of Scientific Integrity	3
BME 799	Dissertation Research ⁵	24
Required Bioinformatics Courses		
INFO 701	Introduction to Bioinformatics	3
INFO 702	Algorithms in Bioinformatics	3
INFO 703	Biological Data Management	3
INFO 704	Next-generation Sequencing Data Analysis	3
INFO 791	Bioinformatics Seminar I ⁶	3
INFO 793	Bioinformatics Journal Club ⁷	6
BME/EGR/Life Science Electives ⁸		9
Total Hours		72

¹ Students will register for BME 701 for at least 3 terms

² Student may substitute with another GBS genetics or biology elective at the same or higher level with program director approval

³ If the lab rotation is not needed, student may substitute with an elective at the same or higher level with program director approval

⁴ Student may substitute with another biostatistics course at the same or higher level with program director approval

⁵ Dissertation research must be conducted over at least 2 terms

⁶ Students will register for INFO 791 for at least 3 terms

⁷ Students will register for INFO 793 for at least 3 terms

⁸ Electives must be approved by the program director prior to registration in order to be applied to the degree

Coursework for PhD, Bioinformatics Track after MS Degree

	Requirements	Hours
Core Required Courses		
BME 617	Engineering Analysis	3
or ME 661	Math Methods in EGR I	
BME 701	Seminar in Biomedical Engineering	1
GRD 717	Principles of Scientific Integrity	3
BME 799	Dissertation Research ¹	24
Required Bioinformatics Courses		
INFO 701	Introduction to Bioinformatics	3
INFO 702	Algorithms in Bioinformatics	3
INFO 703	Biological Data Management	3
INFO 704	Next-generation Sequencing Data Analysis	3
INFO 791	Bioinformatics Seminar I ²	3
INFO 793	Bioinformatics Journal Club	2
BME Elective ³		3
Total Hours		51

¹ Dissertation research must be conducted over at least 2 terms

² Students will register for INFO 791 for at least 3 terms

³ Electives must be approved by the program director prior to registration in order to be applied to the degree