Doctor of Philosophy Biostatistics Big Data Track Curriculum

Course Number	Course Title	Credits	Required or Elective	Semester Offered
PhD Biostatis	tics Core Courses: 31 credit hours	ALL se	mester course offeri	ngs are subject to change
BE 7024	Computational Statistics	3	Required	Spring
BE 7088	Regression Analysis	3	Required	Spring
BE 7089	Experimental Design	3	Required	Fall
BE 8029	Biostatistics Seminar (4 semesters)	4	Required	Fall/Spring
ENV 7001	Environmental Health Seminar (4 semesters)	4	Required	Fall/Spring
GNTD 7003	Ethics in Research	1	Required	Spring
STAT 6021	Mathematical Statistics I	3	Required	Fall
STAT 6022	Mathematical Statistics II	3	Required	Spring
ENV 9091	Dissertation Research (<u>After</u> Statement of Intent Approved)	7	Required	Fall/Spring/Summer
Biomedical Credits: 4 credit hours Select a minimum of 4 credit hours from the list below			Required	
BE 7076	Introduction to Epidemiology	2		Fall/Spring
CB 8080	Cancer Biology & Therapeutics	4		Spring
GNTD 7001	Molecular and Cellular Biology	1-4		Fall
MCP 6031C	Computational Systems Biology	2		Spring
TOX 7082	Survey of Toxicology	2		Fall 2020
PhD Biostatis	tics Big Data Track Courses: 12 credit hours		Required	
BE 8093	Data Base Management	3	Required	Spring
BMIN 7099	Introduction to Bioinformatics	3	Required	Spring
GNTD 8001C	Introduction to Functional Genomics	3	Required	Fall
Select one co	urse from the list below.			
BE 7082	Intro to Data Science	3		Fall (even years)
CS 6037	Machine Learning	3		Fall
Free Electives	: Select remaining credits from Course Catalog List (fill-in wit	h advisor)		
			Elective	
Total Credits	l Post-Masters (≥ 13 credit hours Free Electives)	60		
Total Credits Post-Bacc (≥ 43 credit hours Free Electives)		90		

• 3.0 GPA (B average) or higher required for graduation.

• All required courses must be completed with a B- or higher.

• "I" (Incomplete) or "NG" (Not Graded) grades must be removed from academic record prior to applying for graduation.

The doctoral degree will be granted for no less than the equivalent of three years of full-time graduate study.

 All requirements for the doctoral degree must be completed within nine consecutive academic years of the date of matriculation into the program.

 Students must take a minimum of one graduate credit that contributes to degree requirements per academic year (fall-summer) to maintain active status.

• A doctoral student must be enrolled for at least 10 graduate credits in his/her program in each of two semesters (including summer semester) during a span of three consecutive semesters.

• Students are expected to meet with their advisor at least once a semester to discuss their academic progress.

Electives must be determined with a consultation from your advisor.