

BIOSTATISTICS, M.S.

Requirements

School of Public Health Core (3 Hours)

Course	Title	Credits
PUBH 700	Perspectives in Public Health	3
Total Credit Hours		3

Department Core (16 Hours)

Course	Title	Credits
BIOS 701	Concepts and Methods of Biostatistics	3
EPID 701	Concepts and Methods of Epidemiology	3
BIOS 745	Seminar in Biostatistics	1
BIOS 757	Intermediate Biostatistics	3
BIOS 758	Advanced Linear Models in Biostatistics	3
BIOS 709	Basic Software for Public Health	1
BIOS 711	Introduction to R Programming	1
BIOS 712	Introduction to Stata Software	1
Total Credit Hours		16

Major Courses (16 Hours)

Course	Title	Credits
BIOS 746	Introduction to Complex Survey Data Analysis	1
BIOS 759	Theory and Methods of Discrete Data Analysis	3
BIOS 761	Survival Analysis	3
BIOS 770	Applied Longitudinal Data Analysis	3
STAT 512	Mathematical Statistics	3
STAT 513	Theory of Statistical Inference	3
Select one of the following: ¹		3
BIOS 760	Biostatistical Methods in Clinical Trials	
BIOS 765	Research Design in the Biomedical Sciences	
BIOS 775	Biostatistical Aspects of Bioinformatics	
BIOS 780	Introduction to Quantile Regression	
BIOS 811	Survival Analysis II	
BIOS 815	Generalized Linear Models	
BIOS 820	Bayesian Biostatistics and Computation	
BIOS 825	Multivariate Biostatistics	
EPID 741	Intermediate Epidemiologic Methods	
STAT 518	Nonparametric Statistical Methods	
STAT 519	Sampling	
Total Credit Hours		19

¹ The student may choose an elective from outside of this list, with the permission of their advisor.

Thesis (6 Hours)

Course	Title	Credits
BIOS 799	Thesis Preparation	6
Total Credit Hours		6