

# APPLIED BIOSTATISTICS (ABIOT) - CONCENTRATION

The Concentration in Applied Biostatistics is open to all PhD and MD-PhD students from all MCGSBS training programs to provide the opportunity to integrate coursework into their degree plan and inform their thesis research.

- Stacey J. Winham, Ph.D., Program Director

Eligible learners may declare concentration using the appropriate form. See Concentration Declaration Procedure. By declaring a concentration through this procedure, the concentration will appear on a student's academic transcript. Students may only declare established concentrations and must be in a degree seeking program to declare a concentration. Students may only declare one official concentration.

## Course Work

The curriculum for the Concentration consists of 13 credits. The student must complete all of the required courses listed below:

### Course Requirements

Code	Title	Hours
CTSC 5600	Introduction to Statistics in Clinical and Translational Research	3
CTSC 5610	Statistics in CTR: Linear Regression Concepts, Interpretation, and Statistical Software	3
CTSC 5640	Statistics in Clinical and Translational Research: Logistic Regression with Statistical Software	1
CTSC 5650	Advanced Statistics in CTS Research: Survival Analysis with Statistical Software	1
CTSC 5720	Clinical Trials Design and Conduct	1
<b>Total Hours</b>		<b>9</b>

### Choose One

Code	Title	Hours
A minimum of 1 credit is required. Select from the following:		
CTSC 5602	Introduction to Utilizing Statistical Software in Clinical and Translational Research	1
CTSC 5603	Introduction to R Programming in Clinical and Translational Research	1

### Elective Courses

Code	Title	Hours
A minimum of 3 credit are required. Select from the following:		
CTSC 5500	Genomic Analysis of Complex Traits	1
CTSC 5710	Practical Data Collection	1
CTSC 5715	Publication Quality Tables and Figures	1
CTSC 5740	Systematic Reviews and Meta-Analysis	2
CTSC 5940	Secondary Data Analysis	1