# 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.

- Felicity T. Enders, Ph.D., Program Director

Eligible learners may declare concentration using the appropriate form. See Concentration Declaration Procedure (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmayoclinic.onbaseonline.com%2Fmceidp%2Fdocpop%2Fdocpop.aspx%3FKT611_0_0_0%3DDOCMAN14-0000016108%26clienttype%3Dhtml%26doctypeid%3D1112&data=05%7C02%7CMGSADMINASST%40mayo.edu%7C4b01df32014e498d7de808dc769263c1%7Ca25fff9c3f634fb29a8ad9bdd0321f9a%7C0%7C0%7C638515618317611354%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=c1bv5o28r5CzvZREq5quqiZg%2BxV6fhwQLsQBBaIElHM%3D&reserved=0). 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 5602 | Introduction to Utilizing Statistical Software in Clinical and Translational Research | 1 |
| CTSC 5610 | Statistics: Linear Regression Concepts, Interpretation, and Statistical Software | 3 |
| CTSC 5640 | Logistic Regression | 1 |
| CTSC 5650 | Advanced Statistics: Survival Analysis with Statistical Software | 1 |
| CTSC 5720 | Clinical Trials Design and Conduct | 1 |
| **Total Hours** | | **10** |

### Elective Courses

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