

# APPLIED BIOSTATISTICS (ABIO) - CERTIFICATE

• M. Hassan Murad, M.D., MPH, *Program Director*

The Certificate program in Applied Biostatistics is available to Mayo Clinic professionals who are working in related disciplines. Doctoral candidates may be considered. Potential candidates for the degree must hold Mayo Clinic appointments of sufficient duration to complete the program requirements.

## Course Work

The curriculum for the Certificate award consists of **12 credits**. The student must complete all of the required courses listed below:

Code	Title	Hours
<b>Core Courses</b>		
MGS 6000	Responsible Conduct of Research	1
<b>Track Requirements</b>		
CTSC 5300	Foundations of Epidemiology	1
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 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>12</b>

## Suggested Sequence

*Below is an example of a suggested sequence based on a Summer term start.*

*Individual course plans will vary depending on the quarter you enter the program and/or if you are pursuing an optional concentration, etc. Progress on the course plan should be documented on your degree planning tool. Contact the track Education Coordinator for additional information.*

Code	Title	Hours
<b>First Year - Summer Term</b>		
CTSC 5600	Introduction to Statistics in Clinical and Translational Research	3
CTSC 5602	Introduction to Utilizing Statistical Software in Clinical and Translational Research	1
<b>First Year - Fall Term</b>		
CTSC 5300	Foundations of Epidemiology	1
CTSC 5610	Statistics in CTR: Linear Regression Concepts, Interpretation, and Statistical Software	3
<b>First Year - Winter Term</b>		
MGS 6000	Responsible Conduct of Research	1

CTSC 5640	Statistics in Clinical and Translational Research: Logistic Regression with Statistical Software	1
CTSC 5720	Clinical Trials Design and Conduct	1
<b>First Year - Spring Term</b>		
CTSC 5650	Advanced Statistics in CTS Research: Survival Analysis with Statistical Software	1