

# TRANSLATIONAL SCIENCE GRADUATE CREDIT CERTIFICATE PROGRAM

## Certificate Requirements

Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs/>).

The curriculum includes courses in 4 specific translational science clusters. Students are required to complete 15 credits, including a 10 credit core of required 500-level courses and 5 elective credits. Courses must be selected from the detailed curriculum, or by permission in advance from the certificate director. Courses are available at the Hershey and University Park Campuses enabling the student to continue employment activities or graduate school programs. Students must obtain a B or better in each course.

Code	Title	Credits
<b>Required Courses</b>		
Select one of the following:		3
PHS 520	Principles of Biostatistics	
STAT 500	Applied Statistics	
STAT 501	Regression Methods	
Select one of the following:		3
PHS 550	Principles of Epidemiology	
HPA 540	Epidemiological Applications in Health Services Research	
STAT 507	Epidemiologic Research Methods	
Select one of the following:		3
PHS 580	Clinical Trials: Design and Analysis	
STAT 503	Design of Experiments	
STAT 509	Design and Analysis of Clinical Trials	
Select one of the following:		1
PHS 500	Research Ethics for Clinical Investigators	
MCIBS 591	Ethics, Rigor, Reproducibility and Conduct of Research in the Life Sciences	
BMS 591	Biomedical Research Ethics	
<b>Electives</b>		
Select 5 credits from the following:		5
BBH 505	Behavioral Health Research Strategies	
BIOL 555	Statistical Analysis of Genomics Data	
BMMB 852	Applied Bioinformatics	
BMS 801	Writing Grant Proposals for Biomedical Research	
CTS 590	Colloquium	
HPA 528	Health Data Analysis for Research	
HPA 564	Research Methods in Health Services Research	
HDFS 503	Human Development Intervention: Analysis of Theories and Approaches	
HDFS 516	Methods of Research in Human Development	
KINES 588	Scientific Writing in Kinesiology	

MCIBS 555	Statistical Analysis of Genomics Data
NUTR 540	Research Methods
PHS 518	Scientific Communication
PHS 519	Patient Centered Research
PHS 521	Applied Biostatistics
PHS 536	Health Survey Research Methods
PHS 540	Decision Analysis for Public Health
STAT 555	Statistical Analysis of Genomics Data
<b>Total Credits</b>	<b>15</b>