STATISTICS ACADEMIC GRADUATE CERTIFICATE

STAT 431 or similar course preparation must be completed prior to pursuing this academic certificate. At least half of the credits used for this certificate must be at the 500 level. All required coursework must be completed with a grade of B or better (O-10-b (https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/)).

Code	Title	Hours
STAT 422	Survey Sampling Methods	3
or STAT 507	Experimental Design	
Select additional courses from the following:		9
STAT 419	Introduction to SAS/R Programming (Choose only one of these three)	
or STAT 426	SAS Programming	
or STAT 427	R Programming	
STAT 422	Survey Sampling Methods	
STAT 451	Probability Theory	
STAT 452	Mathematical Statistics	
STAT 507	Experimental Design	
STAT 514	Nonparametric Statistics	
STAT 516	Applied Regression Modeling	
STAT 517	Statistical Learning and Predictive Modeling	
STAT 519	Multivariate Analysis	
STAT 535	Introduction to Bayesian Statistics	
STAT 555	Statistical Ecology	
STAT 565	Computer Intensive Statistics	
Other advisor-approved electives		
Total Hours		**12**

Courses to total 12 credits for this certificate

1. The student will be able to conduct a statistical analysis using methods that are appropriate for their data.
2. The student can diagnose whether the assumptions of the chosen statistical method are valid.
3. The student can clearly explain the results of the statistical analysis and if the statistical method(s) are valid.