STATISTICS GRADUATE CERTIFICATE

Admission Requirements

Complete the following admission requirements:

- Hold a baccalaureate degree from an accredited institution
- Complete Calculus I (MATH F251X), Calculus II (MATH F252X) and Calculus III (MATH F253X)[1]
- Complete Regression and Analysis of Variance (STAT F401) or equivalent.[1] Students without this requirement may be admitted into the program with a deficiency but will be required to complete STAT F401 as part of the requirements of the certificate.

[1] Students must earn a C or better in each course.

Program Requirements

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Minimum Requirements for Statistics Graduate Certificate: 12 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/graduate-certificates/#gurgraduatecertificatestext)		
Graduate Certificate Requirements		
Complete the graduate certificate requirements. (https://catalog.uaf.edu/graduate-certificates/)		
Statistics Program Requirements		
Complete the following:		
STAT F651	Statistical Theory I [1]	3
or MATH F408	Mathematical Statistics	
Complete two of the following: [1]		6
STAT F461	Applied Multivariate Statistics	
STAT F602	Experimental Design	
STAT F605	Spatial Statistics	
STAT F611	Time Series	
STAT F621	Nonparametric Statistics and Machine Learning	
STAT F631	Categorical Data Analysis	
STAT F641	Bayesian Statistics	
STAT F651	Statistical Theory I [1]	
STAT F652	Statistical Theory II [1]	
STAT F653	Statistical Theory III: Linear Models	
STAT F661	Sampling Theory	
Complete one or more from the following electives to total 12 credits for the certificate:		3-6
FISH F604	Modern Applied Statistics for Fisheries	
FISH/WLF F625	Population Dynamics of Vertebrates	
FISH F627	Statistical Computing with R	
FISH F631	Data Analysis in Community Ecology	
MATH F614	Numerical Linear Algebra	
or MATH F641	Real Analysis	
or MATH F660	Advanced Mathematical Modeling	
or MATH F661	Optimization	
MIN/GE F635	Advanced Geostatistical Applications	
PETE F687	Experimental and Data Analytics Methods in Petroleum Engineering	
PHYS F628	Digital Time Series Analysis	
Or other elective courses approved by a statistics faculty member.		
Total Credits		**12-15**

[1] No more than two of the following courses can be used towards the certificate: MATH F408, STAT F651 or STAT F652.