# Statistics Graduate Certificate

## **Program Requirements**

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mathematics-statistics/)</pre>

# 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:

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ST	AT F651	Statistical Theory I <sup>1</sup>	3
	or MATH F408	Mathematical Statistics	
Сс	omplete two of the following: <sup>1</sup>		
	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 <sup>1</sup>	
	STAT F652	Statistical Theory II <sup>1</sup>	
	STAT F653	Statistical Theory III: Linear Models	
	STAT F661	Sampling Theory	
	mplete one or more edits for the certific	from the following electives to total 12 ate:	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

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

## **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)<sup>1</sup>
- Complete Regression and Analysis of Variance (STAT F401) or equivalent. <sup>1</sup> 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.

<sup>1</sup> Students must earn a C or better in each course.