

B.S., MATH/M.S., STATISTICS

Accelerated B.S./M.S. Degrees

This combined degree program allows dedicated statistics students to complete two degrees in a compressed time frame (typically, five years instead of six), while still maintaining the rigor and content of both degrees. Students will receive a B.S. in mathematics with a concentration in statistics, and an M.S. in statistics.

Minimum Requirements for Accelerated Math B.S./Statistics M.S.
Degrees: 138 credits

College of Natural Science and Mathematics
Department of Mathematics and Statistics (<https://www.uaf.edu/dms/>)
907-474-7332

Admission Requirements

Complete the following admission requirements:

- Current admission into a baccalaureate degree program
- At least a 3.0 cumulative GPA
- Completion of 24 credits in the undergraduate major program requirements
- Junior standing

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Math B.S./ Statistics M.S.: 138 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (http://catalog.uaf.edu/bachelors/)		
General Education Requirements		
Complete the general education requirements. (http://catalog.uaf.edu/bachelors/general-education-requirements/)		
As part of the general education requirements, complete:		
MATH F252X	Calculus II	4
B.S. Degree Requirements		
Complete the B.S. degree requirements. (http://catalog.uaf.edu/bachelors/summary-of-bachelors-degree-reqs/#bachelorofsciencetext)		
As part of the B.S. requirements, complete:		
MATH F253X	Calculus III	4
PHYS F123X and PHYS F124X or PHYS F211X and PHYS F212X	College Physics I and College Physics II General Physics I and General Physics II	
Undergraduate Program Requirements		
CS F201 or NRM F338	Computer Science I Introduction to Geographic Information Systems	3
ENGL F314 or ENGL F414	Technical Writing Research Writing	3
MATH F265	Introduction to Mathematical Proofs	3

MATH F314	Linear Algebra	3
MATH F371	Probability	3
MATH F401 or MATH F405	Introduction to Real Analysis Abstract Algebra	3
MATH F408	Mathematical Statistics	3
STAT F300	Statistics	3
STAT F401	Regression and Analysis of Variance	4
STAT F454	Statistical Consulting Seminar ¹	1
Upper-division mathematics or statistics electives ²		3

Graduate Statistics Program Requirements

Code	Title	Credits
STAT F402	Scientific Sampling	3
STAT F651	Statistical Theory I	3
STAT F652	Statistical Theory II	4
STAT F653	Statistical Theory III: Linear Models	3
STAT F654	Statistical Consulting Seminar	1
Complete two of the following:		6
STAT F461	Applied Multivariate Statistics	
STAT F602	Experimental Design	
STAT F605	Spatial Statistics	
STAT F611	Time Series	
STAT F621	Nonparametric Statistics	
STAT F631	Categorical Data Analysis	
STAT F641	Bayesian Statistics	
STAT F661	Sampling Theory	
Graduate Statistics Electives ³		6
STAT F698	Non-thesis Research/Project	6

¹ Fulfills the baccalaureate capstone requirement.

² Acceptable elective courses include any mathematics or statistics course at the F300 level or above. In some cases, courses with strong statistical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

³ Acceptable elective courses include any statistics course at the F600 level or above. In some cases, courses with strong statistical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

Note: All mathematics majors must have an advisor from the Department of Mathematics and Statistics.

Note: At least 12 approved mathematics or statistics credits at the F300 level or above must be taken while in residence on the Fairbanks campus.