

APPLIED MATHEMATICS, B.S.

Requirements

The bachelor of science in applied mathematics requires the following:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
MST 121	Linear Algebra I	4
MST 225	Linear Algebra II	3
MST 251	Ordinary Differential Equations	3
MST 311	Introductory Real Analysis I	3
MST 351	Introduction to Mathematical Modeling	3
MST 326	Numerical Linear Algebra	3
or MST 355	Introduction to Numerical Methods	
MST 357/ STA 310	Probability	3
Choose one of the following:		3
STA 311	Statistical Inference	
STA 312	Linear Models	
STA 362	Multivariate Statistics	
STA 364	Computational and Nonparametric Statistics	
Choose 3 additional 3-hour MST or STA courses numbered 200 or above *		9
Choose one of the following:		
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
Choose one year-long sequence outside of mathematics and statistics chosen from the following:		
CSC 221 and one CSC course numbered 200 or above		
PHY 113 & PHY 114	General Physics I and General Physics II	
CHM 111 & CHM 280	College Chemistry I and College Chemistry II	
BIO 150 & BIO 160	Biology I and Biology II	
a sequence approved by the applied mathematics major adviser		

* excluding MST 205, MST 306, and MST 381

To declare this major, at least three of MST 111, MST 112, MST 113, MST 117, MST 121 and STA 212 must be completed with a grade of at least a C or through AP credit.