

## DEGREE PLANNING GUIDE: 2020-21

### B.S. in Statistics, Concentration in Mathematical Statistics

Beginning with MATH 114

First year (<28 credits)	Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
<b>Semester 1</b> MATH 114 CISC 131 <i>or</i> CISC 130	<b>Semester 1</b> MATH 240 MATH 313	<b>Semester 1</b> STAT 333	<b>Semester 1</b> STAT 400 STAT Elective
<b>Semester 2</b> MATH 200	<b>Semester 2</b> STAT 314	<b>Semester 2</b> STAT 360 STAT Elective	<b>Semester 2</b> STAT 460

Beginning with MATH 113

First year (<28 credits)	Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
<b>Semester 1</b> MATH 113 CISC 131 <i>or</i> CISC 130	<b>Semester 1</b> MATH 200	<b>Semester 1</b> STAT 314	<b>Semester 1</b> STAT 333 STAT 400
<b>Semester 2</b> MATH 114	<b>Semester 2</b> MATH 240 MATH 313	<b>Semester 2</b> STAT Elective STAT Elective	<b>Semester 2</b> STAT 360 STAT 460

#### Requirements for Degree

##### Program Core Courses

MATH 113 Calculus I  
*or* MATH 108 *and* MATH 109 Calculus with Review  
 MATH 114 Calculus II  
 MATH 128 Introduction to Discrete Mathematics  
*or* MATH 240 Linear Algebra  
 CISC 131 (*or* 130) Programming & Problem Solving  
 STAT 360 Computation Methods in Statistics  
 STAT 400 Data Mining and Machine Learning  
 STAT 460 Statistical Research/Practicum

##### Program Concentration Courses

MATH 200 Multivariable Calculus  
 MATH 313 Probability  
 STAT 314 Mathematical Statistics  
 STAT 333 Predictive Modeling

##### Eight credits of electives from the following list:

STAT 310 Biostatistics  
 STAT 336 Data Communication and Visualization  
 STAT 370 Bayesian Statistical Models and Credibility  
 STAT 380 Spatial Statistics  
 STAT 413 Generalized Linear Mixed Models  
 STAT 414 Network Models and Simulations  
 ACSC 364 Math Finance