

COMPSCI 220

COMPSCI 222

COMPSCI 347

ENGLISH 370

PWP 371

PWP 372

3 units

3 units

3 units

3 units

3 units

3 units

Intermediate JAVA

Intermediate C++

Scientific Computing

Advanced Composition

Writing in the Sciences

Technical and Scientific Writing

Unique Writing Requirement (3 units) — select one of the following:

MATHEMATICS MAJOR Statistics Emphasis (BA/BS) (39 units)

Effective beginning Fall 2021
An approved minor is required for this major

For students interested in a career as a statistician, demographer, specialist in marketing, quality control, or economics.

COURSES			OFFERED*	PRE-REQUISITE
Major Requirements:				
MATH 200	1 unit	Mathematics: Form and Function	E	CoReq: MATH 253
MATH 253	5 units	Calculus and Analytic Geometry I (GQ)	E	MATH 152 or (MATH 142 and 151) each with C or better
MATH 254	4 units	Calculus and Analytic Geometry II	E	MATH 253 or (MATH 250 and 151) or (MATH 250 and 152) each with C or better
MATH 255	4 units	Calculus and Analytic Geometry III	E	MATH 254 with C or better
MATH 280	3 units	Discrete Mathematics	E	MATH 250 with B or better or MATH 253 with C or better
MATH 343	3 units	Applied Probability Theory	F	MATH 250 or 253 with C or better
MATH 355	3 units	Matrices and Linear Algebra	E	MATH 253 or (MATH 250 and 151) or (MATH 250 and 152) each with C or
				better
STAT 263	1 unit	Introduction to R	E	MATH 250 or MATH 253
STAT 342	3 units	Applied Statistics	E	MATH 250 or 253 with C or better and STAT 263, CS 172, or CS 174
STAT 420	3 units	Applied Regression Analysis	F	STAT 342 or consent of instructor
Select three courses from the following list:				
MATH 301	3 units	Introduction to Analysis	E	MATH 254 with C or better and MATH 280
MATH 442	4 units	Mathematical Statistics	S	MATH 255 with C or better and MATH 343 with C or better
STAT 362	3 units	Applied Nonparametric Statistics	R	STAT 342 with C or better or MATH 343 with C or better
STAT 423	3 units	Experimental Design and Analysis of Variance	R	STAT 342 with C or better
STAT 430	3 units	Sampling, Design, and Analysis of Survey Data	R	STAT 342 with C or better
ECON 446	3 units	Advanced Econometrics		
PSYCH 416 -or-	3 units	Advanced & Multivariate Data Analysis - Life Sciences		
BIOLOGY 416	3 units	Advanced & Multivariate Data Analysis - Life Sciences		
Unique Computer Science Requirement (3 units) — select one of the following:				<u>MILESTONES</u>
COMPSCI 170	3 units	Introduction to Python Programming		Math Exit Interview
COMPSCI 172	3 units	Introduction to JAVA (GM)		GPA Requirement of 2.0
COMPSCI 174	3 units	Introduction to C++ (GM)		of A Requirement of 2.0
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* E = Every Semester

S = Every Spring

F = Every Fall

R = On Rotation; semester offerings will vary