

# MATHEMATICS - STATISTICS EMPHASIS REQUIREMENTS (BA/BS)

Code	Title	Units
<b>Major Requirements</b>		
MATH 200	MATHEMATICS: FORM AND FUNCTION	1
MATH 253	CALCULUS AND ANALYTIC GEOMETRY I	5
MATH 254	CALCULUS AND ANALYTIC GEOMETRY II	4
MATH 255	CALCULUS AND ANALYTIC GEOMETRY III	4
MATH 280	DISCRETE MATHEMATICS	3
MATH 343	APPLIED PROBABILITY THEORY	3
MATH 355	MATRICES AND LINEAR ALGEBRA	3
STAT 263	INTRODUCTION TO R	1
STAT 342	APPLIED STATISTICS	3
STAT 420	APPLIED REGRESSION ANALYSIS	3
<b>Select three of the following courses:</b>		<b>9 - 10</b>
ECON 446	ADVANCED ECONOMETRICS	
MATH 301	INTRODUCTION TO ANALYSIS	
MATH 442	MATHEMATICAL STATISTICS	
PSYCH 416	ADVANCED AND MULTIVARIATE DATA ANALYSIS FOR THE LIFE SCIENCES	
or BIOLOGY 416	ADVANCED AND MULTIVARIATE DATA ANALYSIS FOR THE LIFE SCIENCES	
STAT 362	APPLIED NONPARAMETRIC STATISTICS	
STAT 423	EXPERIMENTAL DESIGN AND ANALYSIS OF VARIANCE	
STAT 430	SAMPLING, DESIGN, AND ANALYSIS OF SURVEY DATA	
STAT 440	STATISTICAL LEARNING FOR DATA SCIENCE	
STAT 445	APPLIED MULTIVARIATE STATISTICS	
<b>Total Units</b>		<b>39-40</b>

Code	Title	Units
<b>Unique Requirements</b>		
<b>Select one:</b>		<b>3</b>
COMPSCI 170	INTRODUCTION TO PYTHON PROGRAMMING	
COMPSCI 172	INTRODUCTION TO JAVA	
COMPSCI 174	INTRODUCTION TO C++	
<b>Select one:</b>		<b>3</b>
ENGLISH 370	ADVANCED COMPOSITION	
PWP 371	WRITING IN THE SCIENCES	
PWP 372	TECHNICAL AND PROFESSIONAL WRITING	