

**STATISTICS MAJOR REQUIREMENTS: ADVISEMENT FORM  
BACHELOR OF SCIENCE DEGREE  
MATHEMATICAL STATISTICS TRACK**

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NOTE: A grade of C or better is required in courses to fulfill major requirements.

**I. Core Requirements**

		Semester/Year	Grade
MATH 151	Calculus and Analytic Geometry I	_____	_____
MATH 152	Calculus and Analytic Geometry II	_____	_____
MATH 221	Introduction to Linear Algebra	_____	_____
MATH 251	Multivariable Calculus	_____	_____
MATH 301	Intro to Mathematical Analysis I	_____	_____
STAT 433	Statistical Computing	_____	_____
STAT 441	Probability Modeling	_____	_____
STAT 451	Introduction to Probability Theory	_____	_____
STAT 453	Introduction to Mathematical Statistics	_____	_____
STAT 454	Applied Statistics	_____	_____

**II. Proficiency in English**

ENGL 393	Technical Writing (WI)	_____	_____
SPCH	Any speech course	_____	_____

**III. Upper Level Mathematics/Statistics Electives**

Students must successfully complete NINE elective courses with at least SIX courses in Statistics. All courses must be chosen from the list below; exceptions to this rule must have departmental/advisor approval.

		Semester/Year	Grade
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____

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## BACHELOR OF SCIENCE DEGREE

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#### Upper Level Electives in Mathematics and Statistics

MATH 302	Introduction to Mathematical Analysis II
MATH 341	Computational Methods
MATH 355	Biomathematics
MATH 381	Linear Methods in Operations Research
MATH 385	Introduction to Mathematical Modeling
MATH 430	Matrix Analysis
MATH 441	Introduction to Numerical Analysis
MATH 452	Introduction to Stochastic Processes
STAT 365	Financial Mathematics for Actuaries
STAT 405	Survey Sampling
STAT 414	Environmental Statistics
STAT 417	Introduction to Time Series Data Analysis
STAT 418	Applied Multivariate Methods
STAT 419	Introduction to Biostatistics
STAT 455	Design of Experiments/Quality Control
STAT 490	Special Topics in Statistics (repeatable for different topics)
STAT 496	Statistics Practicum (must be at least 3 credits)
STAT 499	Independent Study in Statistics (must be at least 3 credits; repeatable for up to 6 credits)

You may bundle 2 or more of the courses below (totaling at least 3 credits) as a *single* Statistics elective:

MATH 426	Introduction to Math Software Packages: MATLAB (2 credits)
STAT 432	Statistical Computer Packages and Their Applications (1 credit)
STAT 470	Probability for Actuarial Science (1 credit)
STAT 496	Statistics Practicum (variable credit)
STAT 499	Independent Study in Statistics (variable credit)

#### Upper Level Electives in Other Fields

Note: be aware that many of these courses have lower-level prerequisites

CMSC 201	Computer Science
CMSC 331	Principles of Programming Languages
CMSC 341	Data Structures
ECON 421	Introduction to Econometrics
ECON 422	Topics in Econometrics
ECON 423	Economic Forecasting
IS 410	Introduction to Database Program Development
IS 420	Database Application Development
IS 427	Artificial Intelligence
POLI 301	Research Methods in Political Science
PSYC 311	Research Methods in Psychology I
PSYC 312	Research Methods in Psychology II
SOCY 419	Research Methods in Sociology