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

Name:

UMBC username or ID:

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	Introduction to Mathematics Analysis			
STAT 433	Statistical Computing			
STAT 451	Introduction to Probability Theory			
STAT 453	Introduction to Mathematical Statistics			
STAT 454	Applied Statistics			

II Upper Level Mathematics/Statistics Electives

Students must successfully complete NINE elective courses, with at least SIX courses in Statistics. Electives are to be chosen with departmental approval. See below for suggested electives.

		Semester/Year	Grade
1			
2			
3			
4			
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9			

Suggested Electives in Mathematics and Statistics:

MATH 301	Introduction to Mathematical Analysis I
MATH 302	Introduction to Mathematical Analysis II
MATH 341	Computational Methods
MATH 381	Linear Methods in Operations Research
MATH 430	Matrix Analysis
MATH 441	Introduction to Numerical Analysis
MATH 452	Introduction to Stochastic Processes

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 and Quality Control

Suggested Electives in Other Fields:

CMSC 201   Computer Science I for Majors **OR**

CMSC 202   Computer Science II for Majors

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   Advanced Database Project

IS 427   Artificial Intelligence

IS 444   Total Quality Management for the Information Systems Department

POLI 400   Qualitative Research Methods in Political Science

PSYC 331   Experimental Psychology-Design and Analysis I

PSYC 332   Experimental Psychology-Design and Analysis II

SOCY 419   Qualitative Methods in Social Research

III **Proficiency in English:** All Statistics majors must demonstrate their proficiency in English by passing
ENGL 393 (Technical Writing) and by passing a course in Speech (SPCH).