

MATHEMATICS B.A. MAJOR

MATHEMATICS AND STATISTICS DEPARTMENT

MAJOR CHECKLIST FALL 2020 – SUMMER 2021

This checklist aids in placement of students into their major coursework and it documents the department evaluation of transferred credit and course waivers, based on coursework listed on the Degree Audit Report (DARs). A student must complete General Education & Liberal Studies along with other graduation requirements for graduation – refer to your DARs.

Student Name	Metro State ID #

PRE-MAJOR FOUNDATION REQUIREMENTS: 16 CREDITS

In order to declare a Mathematics BA major, students must earn grades of C- or higher and have a cumulative GPA of 2.5 in following courses.

Course #	Title	Transfer Equivalent Details	Grade	Credits	✓
MATH 210	Calculus I				
MATH 215	Discrete Mathematics				
ICS 140	Computational Thinking with Programming				
STAT 201	Statistics I				

CORE REQUIREMENTS: 32 CREDITS

Once admitted into the major, these lower and upper division courses are required. Take note of prerequisites prior to registering for courses 300-level or higher.

Course #	Title	Transfer Equivalent Details	Grade	Credits	✓
MATH 211	Calculus II				
MATH 301	Introduction to Analysis				
MATH 310	Calculus III: Multivariable Calculus				
MATH 315	Linear Algebra and Applications				
MATH 320	Probability				

Course #	Title	Transfer Equivalent Details	Grade	Credits	✓
MATH 350	Ordinary Differential Equations				
MATH 471	Abstract Algebra				
MATH 499	Mathematics Capstone				

ELECTIVE COURSE REQUIREMENT: 8 CREDITS

Complete 8 credit-hours of coursework from the following list of courses. With approval from your academic advisor, other upper division mathematics courses may also fulfill this requirement.

Course #	Title	Credits	✓	Course #	Title	Credits	✓
DATA 211	Data Science and Visualization			MATH 370	Modern Geometry		
PHYS 211	Calculus Based Physics I			MATH 375	Complex Variables		
MATH 230	Introduction to Mathematical Modeling			MATH 405	Partial Differential Equations		
MATH 330	Optimization			MATH 420	Numerical Analysis		
MATH 355	Introduction to Stochastic Processes			MATH 430	Advanced Mathematical Modeling		

ADDITIONAL NOTES, CREDIT TOTALS OR COMMENTS:

Academic advisor notes:

GRADUATION REQUIREMENTS

The following is a summary of graduation requirements, reference your DAR's for specific details.

Major Requirements Checklist	In Progress	Completed
40 Major Credits		
20 Metro State Major Credits		

University Requirements Checklist	In Progress	Completed
120 Total Credits (minimum), and GPA of 2.0 or better		
30 Metro State Credits		
40 Upper Division (300 or higher)		
48 Credits GELS	See DARs for details	
3 Credits Racial Issues Graduation Requirement (RIGR)		

CONTACT US

For specific questions about this major program or equivalencies of prior coursework at other institutions, contact the Chair of the Mathematics & Statistics Department at:

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