Program Change Request

Date Submitted: 02/04/20 3:07 pm

Viewing: **SC-BA-MATH : Mathematics, BA**

Last approved: 02/07/18 11:01 am

Last edit: 02/04/20 3:15 pm

Changes proposed by: jbazaz

Catalog Pages Using this Program

[Mathematics, BA](#)

Are you completing this form on someone else's behalf?

Yes

Requestor:

Name	Extension	Email
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Effective Catalog: 2020-2021

Program Level: Undergraduate

Program Type: Bachelor's

Degree Type: Bachelor of Arts

Title:

Mathematics, BA

Banner Title: **Mathematics, BA**

Registrar/OAPI Use Only – SCHEV Status Approved

Registrar's Office Use Only – Program Start Term

Registrar/OAPI Use Only – SCHEV Letter

Concentration(s):

Registrar/IRR Use Only – Concentration CIP Code

College/School: College of Science

Department / Academic Unit: Mathematical Sciences

Jointly Owned Program? No

Academic Themes:

Justification MATH 300 will replace MATH 290, the program is being updated accordingly.

Total Credits Required: Total credits: minimum 120

Registrar's Office Use Only - Program Code:

SC-BA-MATH

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Admissions

University-wide admissions policies can be found in the Undergraduate Admissions Policies section of this catalog.

To apply for this program, please complete the George Mason University Admissions Application.

Program-Specific Policies:

Policies

Students must fulfill all Requirements for Bachelor's Degrees, including the Mason Core. As outlined in the Requirements tab, students in this bachelor's program must also complete the additional College Requirements for the BA Degree.

MATH 300 Introduction to Advanced Mathematics meets ~~MATH 290 Introduction to Advanced Mathematics meets~~ the writing intensive requirement for this major.

For policies governing all undergraduate programs, see AP.5 Undergraduate Policies.

Graduating seniors are required to have an exit interview.

Course Recommendations and Policies

Students intending to enter graduate school in mathematics are strongly advised to take MATH 315 Advanced Calculus I and MATH 321 Abstract Algebra.

Students may not receive credit for both MATH 214 Elementary Differential Equations and MATH 216 Theory of Differential Equations; both MATH 213 Analytic Geometry and Calculus III and MATH 215 Analytic Geometry and Calculus III (Honors); both MATH 351 Probability and STAT 344 Probability and Statistics for Engineers and Scientists I; and both MATH 352 Statistics and STAT 354 Probability and Statistics for Engineers and Scientists II.

After receiving a grade of 'C' or better in one of the courses listed below on the left, students may not receive credit for the corresponding course on the right:

	MATH credit
Course	May Not Receive Credit for
MATH 113 or MATH 123	MATH 105 or MATH 108
MATH 351 or STAT 344	MATH 110
MATH 441	MATH 111
MATH 125	MATH 112

Degree Requirements:

Students should refer to the Admissions & Policies tab for specific policies related to this program.

A maximum of 6 credits of grades below 2.00 in coursework designated MATH or STAT may be applied toward the major.

Required Courses

Course List		
Code	Title	Credits
Core Courses		
MATH 113	Analytic Geometry and Calculus I (Mason Core)	4
MATH 114	Analytic Geometry and Calculus II	4
MATH 125	Discrete Mathematics I (Mason Core)	3
MATH 203	Linear Algebra	3
MATH 213	Analytic Geometry and Calculus III	3
or MATH 215	Analytic Geometry and Calculus III (Honors)	
MATH 214	Elementary Differential Equations	3
or MATH 216	Theory of Differential Equations	
~~MATH 290~~	~~Introduction to Advanced Mathematics 1~~	~~3~~
MATH 300	**Introduction to Advanced Mathematics**	
MATH 322	Advanced Linear Algebra	3
Total Credits		23

1   Fulfills the writing intensive requirement.

In addition to completing the core courses above, students must complete 12 additional traditional mathematics credits in MATH courses numbered above 300.

Course List

Code	Title	Credits
Select 12 credits in MATH 300-level or higher 1		12
Total Credits		12

1 Excluding MATH 400 History of Math (Topic Varies) (Mason Core)

Retroactive Requirements Updates:

Plan of Study:

Honors Information:

Honors in the Major

Eligibility

Mathematics majors who have maintained a GPA of at least 3.50 in mathematics courses and a GPA of 3.50 in all courses taken at George Mason University may apply to the departmental honors program upon completion of two MATH courses at the 300+ level (excluding MATH 400 History of Math (Topic Varies) (Mason Core)), at least one of which **has MATH 300 Introduction to Advanced Mathematics as** ~~has MATH 290 Introduction to Advanced Mathematics as~~ a prerequisite. Admission to the program will be monitored by the undergraduate committee.

Honors Requirements

To graduate with honors in mathematics, a student is required to maintain a minimum GPA of 3.50 in mathematics courses and successfully complete MATH 405 Honors Thesis in Mathematics I and MATH 406 RS: Honors Thesis in Mathematics II with an average GPA of at least 3.50 in these two courses.

Additional Program Information

Courses offered via distance (if applicable):

What is the primary delivery format for the program?	Face-to-Face Only
Does any portion of this program occur off-campus?	No
Are you working with a vendor / other collaborators to offer your program?	No

Related Departments

Could this program prepare students for any type of professional licensure, in Virginia or elsewhere?

No

Are you adding or removing a licensure component?

No

Additional SCHEV & SACSCOC Information

Are you changing the total number of credits required for this program?

Are you changing the delivery format in any way (e.g adding an online option)?

Are you adding/removing a licensure option which was approved by SCHEV?

Will any portion of this program be offered at an off-campus location?

Are you adding significant new content areas to the program?

Will this program change affect any specialized accreditation?

Green Leaf Program Designation

Is this a Green Leaf program?   No

Does this program cover material which crosses into another department?

No

Additional Attachments   UGC-COS-Program-Mod-bamatheducation_0016.pdf
UGC-COS-Program-Mod-bamath_001.pdf

SCHEV Proposal

Executive Summary

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

%wi_required.eschtml%