

Date Submitted: 12/11/20 11:19 am

Viewing: : **Mathematics, BA or BS/Mathematics, Accelerated MS**

Last approved: 11/02/17 10:10 am

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Changes proposed by: jbazaz

**Catalog Pages
Using this Program**

[Mathematics, BA](#)[Mathematics, BS](#)[Mathematics, MS](#)

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

No

Effective Catalog: 2021-2022

Program Level: Undergraduate & Graduate (BAMs)

Program Type: Bachelor's/Accelerated Master's

Title: Mathematics, BA or BS/Mathematics, Accelerated MS

**Registrar's Office
Use Only –
Program Start Term**

**Registrar/OAPI Use
Only – SACSCOC
Status**

Concentration(s):

College/School: College of Science

Department /
Academic Unit: Mathematical SciencesJointly Owned
Program? **Yes** ~~No~~Participating
Colleges

In Workflow

1. Registrar-
Programs:Workflow
Review
2. MATH Chair
3. SC Curriculum
Committee
4. SC Associate Dean
5. SC CAT Editor
6. Assoc Provost-
Graduate
7. Assoc Provost-
Undergraduate
8. Registrar-Programs:
Duration
9. Registrar-Programs

History

1. Nov 2, 2017 by
clmig-jwehrheim

Participating Departments

Justification

Updating this BAM pathway to accommodate the new policy revisions: 1. Ability to complete programs in 138 credits, 2. Admission into BAM program by at least 60 UG credits, 3. Begin graduate coursework at 75 UG credits, 4. Allow 3-12 credits to be applied to the UG and GR degree, 5. Including a curated list of graduate courses.

Inserting a college "template" for BAM entries so that the college has consistent and clear messaging.

Catalog Published Information

Accelerated
Description/Dual
Degree
Description:

Mathematics, BA or BS/Mathematics, Accelerated MS

Overview

This **bachelor's/accelerated master's** degree program allows academically **strong undergraduates with a commitment** ~~strong Mathematics, BA and Mathematics, BS students~~ to **advance their education to** obtain **both the Mathematics, BA and Mathematics, BS and the** ~~their bachelor's and a~~ **Mathematics, MS degrees within an accelerated timeframe.** ~~by successfully completing 144 credits.~~ **Upon completion of this 138 credit accelerated program, students will be exceptionally well prepared for entry into their careers or into a doctoral program in the field or in a related discipline.**

Students are eligible to apply for this accelerated program once they have earned at least 60 undergraduate credits and can enroll in up to 18 credits of graduate coursework after successfully completing 75 undergraduate credits. This flexibility makes it possible for students to complete a bachelor's and a master's in five years.

~~Well-prepared students may be admitted to this program after the completion of 90 undergraduate credits. Upon completion and conferral of the bachelor's degree and with satisfactory graduate-level performance (3.00 GPA) in graduate courses, students are given advanced standing in the Mathematics, MS program and complete an additional 24 credits to receive the master's degree.~~ For more detailed information, see [AP.6.7](#)

[Bachelor's/Accelerated Master's Degrees](#). For policies governing all graduate degrees, see [AP.6 Graduate Policies](#).

For more information on undergraduates enrolling in graduate courses, see [AP.1.4.4 Graduate Course Enrollment by Undergraduates](#).

Application Requirements

Applicants to all graduate programs at George Mason University must meet the admission standards and application requirements for graduate study as specified **in the [in-Graduate Admission Policies](#) section of this catalog.** :

Important application ~~Application~~ information **and processes** for this accelerated master's program can be **found [here found on the Department of Mathematical Sciences website.](#)**

Students should seek out the graduate program's advisor who will aid in choosing the appropriate graduate courses and help prepare the student for graduate studies.

Successful applicants will have an overall undergraduate GPA of at least 3.00. Additionally, they will have completed the following courses with a GPA of 3.00 or **higher:** ~~higher:~~ ~~MATH 315 Advanced Calculus I, MATH 321 Abstract Algebra, and MATH 322 Advanced Linear Algebra:~~

| | | |
|------------------------|--------------------------------|----------|
| <u>MATH 315</u> | Advanced Calculus I | 3 |
| <u>MATH 321</u> | Abstract Algebra | 3 |
| <u>MATH 322</u> | Advanced Linear Algebra | 3 |

Accelerated Option Requirements

~~After the completion Reserve Graduate Credit~~While still in undergraduate status, a maximum of 75 undergraduate credits, students may complete 3 to 12 ~~6 additional graduate~~ credits of graduate coursework that can apply to both the undergraduate ~~may be taken as reserve graduate credit~~ and graduate degrees. **applied to the master's program:**

In addition to applying to graduate from the Accelerated Option RequirementsAt the beginning of the student's ~~final~~ undergraduate **program, semester,** students **in the accelerated program** must submit a bachelor's/accelerated master's transition form (available **from the ~~from the~~Office of the the University Registrar) **to the ~~to the~~College of Science's Science's- Office of Academic and Student Affairs** by the last day to add classes of their final undergraduate semester. : Students **should enroll for courses** ~~must begin their master's program~~ in the master's program in ~~semester immediately following conferral of~~ the fall or spring semester immediately following conferral of the bachelor's degree, but should contact an advisor if they would like to defer up to one semester. ~~degree:~~**

Students must maintain an overall GPA of 3.00 or higher in **all graduate coursework and should consult with their faculty advisor to coordinate their academic goals.** ~~coursework:~~

~~Reserve Graduate Credit While still in undergraduate status, a maximum of 6 additional graduate credits may be taken as reserve graduate credit and applied to the master's program.~~**Reserve graduate credits do not apply to the undergraduate degree. See AP.1.4.4**

Graduate Credit

Accelerated master's students may also take up to 6 graduate credits as reserve graduate credits. ~~Course Enrollment by Undergraduates:~~ These credits do not apply to the undergraduate degree, but will reduce the

master's degree by up to 6 credits. With 12 graduate credits counted toward the undergraduate degree plus the maximum 6 reserve graduate credits, the credits necessary for the graduate degree can be reduced by up to 18.

Graduate Course Suggestions

The following list of suggested courses is provided for general reference. To ensure an efficient route to graduation and post-graduation readiness, students are strongly encouraged to meet with an advisor before registering for graduate-level courses.

| | | |
|---------------------------------|---------------------------------------|---|
| <u>MATH 621</u> | Algebra I | 3 |
| <u>MATH 631</u> | Topology I: Topology of Metric Spaces | 3 |
| <u>MATH 675</u> | Linear Analysis | 3 |
| <u>MATH 677</u> | Ordinary Differential Equations | 3 |
| <u>MATH 685</u> | Numerical Analysis | 3 |

Program Outcomes

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Additional Attachments

Reviewer Comments

Additional Comments

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

%wi_required.eshtml%

Key: 265