

# Program Change Request

Date Submitted: 03/11/25 2:35 pm

Viewing: : **Mathematics, MS & Statistical Science, MS Dual Degree**

Last approved: 05/23/24 10:54 am

Last edit: 03/11/25 2:35 pm

Changes proposed by: kpasiah

Catalog Pages Using this Program

[Mathematics, MS](#)  
[Statistical Science, MS](#)

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

No

Effective Catalog:

2025-2026

Program Level:

Graduate

Program Type:

Dual Degree

Title:

Mathematics, MS & Statistical Science, MS Dual Degree

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 Sciences

Jointly Owned Program?

Yes

Participating Colleges

In Workflow

1. MATH Chair

2. STAT Representative-Graduate

3. SC Curriculum Committee

4. SC Assistant Dean

5. Assoc Provost-Graduate

6. Registrar-Programs

Approval Path

1. 03/11/25 2:54 pm  
Maria Emelianenko (memelian):  
Approved for MATH Chair

2. 03/11/25 9:27 pm  
Lily Wang (lwang41):  
Approved for STAT Representative-Graduate

History

1. Nov 16, 2017 by  
clmig-jwehrheim

2. Feb 26, 2018 by  
Jennifer Skorzawski-Ross (jskorzaw)

3. Jun 2, 2022 by Tory Sarro (vsarro)

4. Jun 2, 2022 by Tory Sarro (vsarro)

3/17/25, 12:16 PM

: Mathematics, MS & Statistical Science, MS Dual Degree

	College
1	Volgenau School of Engineering

5. May 23, 2024 by  
Deborah Mcgarrah  
(dmcgarra)

Participating  
Departments

	Department
1	Statistics

Justification

STAT 778 is also one of the electives for MS Statistical Science program.

Accelerated  
Description/Dual  
Degree  
Description:

# Mathematics and Statistical Science Dual-Degree MS

This program allows students to earn an [MS in Mathematics](#) and an [MS in Statistical Science](#) by completing 48 credits of coursework in both areas instead of the 60 that would be required if the degrees were sought independently.

## Admission Requirements

Applicants must satisfy admission requirements for both the [MS in Mathematics](#) and the [MS in Statistical Science](#) programs. A joint faculty committee from the [Department of Mathematical Sciences](#) and the [Department of Statistics](#) make final admission decisions into the dual-degree program.

## MS-MATH/STAT Dual-Degree Requirements

Total credits: 48

<a href="#">MATH 621</a>	Algebra I	3
<a href="#">MATH 675</a>	Linear Analysis	3
<a href="#">MATH 677</a>	Ordinary Differential Equations	3
or <a href="#">MATH 678</a>	Partial Differential Equations	
<a href="#">MATH 685</a>	Numerical Analysis	3
<a href="#">STAT 544</a>	Applied Probability	3
<a href="#">STAT 554</a>	Applied Statistics I	3
<a href="#">STAT 634</a>	Case Studies in Data Analysis	3
<a href="#">STAT 652</a>	Statistical Inference	3
<a href="#">STAT 654</a>	Applied Statistics II	3

Total Credits	27
Electives	
<a href="#">Select 12 elective credits in MATH courses numbered 615 or higher</a> <sup>1</sup>	12
<a href="#">Select any STAT courses numbered 540-778</a>	9
Total Credits	21

<sup>1</sup> Excluding [MATH 653](#) Construction and Evaluation of Actuarial Models I, [MATH 654](#) Construction and Evaluation of Actuarial Models II, [MATH 655](#) Pension Valuation, and [MATH 799](#) MS Thesis

Notes:

- Students in either the [BS/Accelerated MS in Mathematics](#) program or the [BS\(selected\)/Accelerated MS in Statistical Science](#) program cannot get a reduction of 6 credits toward this dual degree. Students who want to proceed to a PhD degree will only be able to waive the number of credits specified in the associated PhD degree requirements, even though they will have 48 credits at the MS level.
- If a student decides not to complete the required 48 credits, a single MS degree will not be granted unless the student fulfills the requirements for either the [MS in Mathematics](#) or the [MS in Statistical Science](#).
- Once a student receives one of the MS degrees from either department, the student will no longer be eligible for the reduction in credit (i.e., will need to complete 30 credits) if the student later decides to earn the other MS degree.

Program Outcomes

Have you reached out to the Libraries to determine whether there are adequate resources to support your program? If not, please email Meg Meiman, Associate University Librarian for Learning, Research, and Engagement at [mmeiman2@gmu.edu](mailto:mmeiman2@gmu.edu).

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Additional Attachments

[1819-055.docx](#)

Reviewer Comments

Additional Comments

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

%wi\_required.eshtml%

Key: 531