

Program Change Request

New Program Proposal

Date Submitted: 04/20/18 1:08 pm

Viewing: : **Mechanical Engineering,**

BS/Computational Science, Accelerated MS

Last edit: 04/20/18 1:08 pm

Changes proposed by: jbazaz

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

Yes

Requestor:

In Workflow

1. Registrar-
Programs:Workflow
Review
2. CDS Chair
3. ME Representative-
Graduate
4. ME Chair-
Undergraduate
5. SC Curriculum
Committee
6. SC Associate Dean
7. VS Undergraduate
Studies Committee
Chair
8. VS Associate Dean-
Undergraduate
9. VS Associate Dean-
Graduate
10. VS CAT Editor-
Undergraduate
11. VS CAT Editor-
Graduate
12. SC CAT Editor
13. Assoc Provost-
Undergraduate
14. Assoc Provost-
Graduate
15. Registrar:Create
Code
16. Registrar-Programs

Approval Path

1. 04/23/18 9:25 am
Rebekah Zacharias

(rzachari): Approved for Registrar-Programs:Workflow Review

2. 04/23/18 3:05 pm
Jason Kinser
(jkinser): Approved for CDS Chair

3. 04/23/18 4:24 pm
Robert Handler
(rhandler): Approved for ME Representative-Graduate

4. 04/24/18 10:50 am
Colin Reagle
(creagle): Approved for ME Chair-Undergraduate

Name	Extension	Email
Matthias Renz	5873	mrenz@gmu.edu

Effective Catalog: 2019-2020

Program Level: Undergraduate & Graduate (BAMs)

Program Type: Bachelor's/Accelerated Master's

Title: Mechanical Engineering, BS/Computational Science, Accelerated MS

Registrar's Office Use Only –

Program Start Term

Concentration(s):

College/School: College of Science

Department / Academic Unit: Computational & Data Sciences

Jointly Owned Program? Yes

Participating Colleges

	College
1	Volgenau School of Engineering

Participating Departments

	Department
1	Mechanical Engineering

Justification

To meet the need for an accelerated MS dealing with simulation and modeling.

Catalog Published Information

Accelerated
Description/Dual
Degree
Description:

Mechanical Engineering, BS/Computational Science, Accelerated MS

Overview

This option enables enthusiastic, highly qualified, undergraduates to obtain the [Mechanical Engineering, BS](#) and the [Computational Science, MS](#) within the accelerated time frame of five years. The program requires 144 credits total, allowing students to undertake graduate coursework during their final year in the bachelor's degree. Upon completion of this 144 credit BS/MS combined program, students are exceptionally well prepared for undertaking doctoral studies or entering the professional workforce.

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](#).

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 [Graduate Admission Policies](#) section of this catalog¹. Application information for this Accelerated Master's program can be found on the [Department of Computational and Data Sciences](#) website. Applicants must have an overall undergraduate GPA of at least 3.00 and have completed at least 90 credits. Additionally, applicants will have completed the following courses with a GPA of 3.00 or better:

Course List

Code	Title	Credits
CS 112	Introduction to Computer Programming (Mason Core)	4
ME 212	Solid Mechanics	3
ME 231	Dynamics	3
ME 313	Material Science	3
ME 322	Fluid Mechanics	3
ME 323	Heat Transfer	3
ME 351	Analytical Methods in Engineering	3
Total Credits		22

Students must maintain an overall GPA of 3.00 or higher in graduate coursework and should consult with their faculty advisor to coordinate their academic goals within the modeling and simulation or data science emphases of the [Computational Science, MS](#).

1GRE-general scores are waived for graduates of BS degrees from any program in the College of Science or the Volgenau School of Engineering at George Mason University.

Reserve Graduate Credit

While in undergraduate status, a student may take a maximum of six graduate credits as reserve graduate credits and apply those credits to a master's program. Reserve graduate credits are not counted toward the 120 credits required in the undergraduate degree.

Additional Attachments [MechEngBSCompMSAccelerated.pdf](#)

Reviewer Comments

Additional Comments