Program Change Request

Date Submitted: 09/17/20 9:24 am

Viewing: : Mechanical Engineering, BS/Applied and Engineering Physics, Accelerated MS

Last approved: 02/07/19 7:15 pm

Last edit: 09/17/20 9:24 am

Changes proposed by: creagle

Catalog Pages Using this Program

Mechanical Engineering, BS

Applied and Engineering Physics, 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:

Mechanical Engineering, BS/Applied and Engineering Physics, Accelerated MS

Registrar's Office Use Only – Program Start Term

Concentration(s):

College/School: College of Science

Department / Academic Unit: Physics & Astronomy

Jointly Owned Program? Yes

Participating Colleges

	College

In Workflow

1. **Registrar-Programs:Workflow Review**
2. **PHYS GR Committee**
3. **PHYS Chair**
4. **ME Chair-Undergraduate**
5. **SC Curriculum Committee**
6. SC Associate Dean
7. VS Associate Dean-Undergraduate
8. Assoc Provost-Undergraduate
9. Assoc Provost-Graduate
10. Registrar-Programs

Approval Path

1. 09/17/20 11:01 am Tory Sarro (vsarro): Approved for Registrar-Programs:Workflow Review
2. 09/24/20 1:25 pm Ernest Barreto (ebarreto): Approved for PHYS GR Committee
3. 09/24/20 1:36 pm Paul So (paso): Approved for PHYS Chair

1	Volgenau School of EngineeringCollege

Participating Departments

	Department
1	Mechanical Engineering

Academic Themes:

Engineering, Technology, & Design

Science & Math

Justification

Updating language for the new BAM policies

4. 09/24/20 3:02 pm Colin Reagle (creagle): Approved for ME Chair-Undergraduate

History

1. Feb 7, 2019 by Jennifer Bazaz Gettys (jbazaz)

Catalog Published Information

Accelerated Description/Dual Degree Description:

Mechanical Engineering, BS/Applied and Engineering Physics, Accelerated MS

Overview

This program allows academically strong undergraduates with a demonstrable commitment to research to obtain the Mechanical Engineering, BS and Applied and Engineering Physics, MS degrees by successfully completing 145 credits. Upon completion, students are well-prepared for entering into the professional workforce, or a PhD program in physics or a related engineering discipline.

Admitted students take selected graduate courses during their senior year and are able to use up to **12** ~~6~~ graduate credits in partial satisfaction of requirements for the undergraduate degree. Upon completion and conferral of the bachelor's degree and with satisfactory performance (grade of 'B' or better) in each of the graduate courses, students are given advanced standing in the master's program and complete an additional **18** ~~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.

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 catalog. Successful applicants majoring in Mechanical Engineering will have completed at least **60** ~~90~~ credits toward their undergraduate degree with an overall GPA of at least 3.00, and the following courses with a GPA of 3.00 or better:

CS 112	Introduction to Computer Programming	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

One or more recommendation letters from one or more research supervisors are also required. Interested applicants majoring in Mechanical Engineering, BS should submit a letter to the undergraduate Mechanical Engineering coordinator and the Physics Graduate Coordinator, respectively, requesting admission along with the aforementioned recommendation letter(s). Contact the Mechanical Engineering undergraduate and the Physics graduate coordinator for further details.

Students who are accepted into the BAM Pathway will be allowed to register for graduate level courses after successful completion of a minimum of 75 undergraduate credits and course-specific pre-requisites

Accelerated Option Requirements

At the beginning of the student's final undergraduate semester, students must submit a bachelor's/accelerated master's transition form to the College of Science's Office of Academic and Student Affairs. Students must begin their master's program in the semester immediately following conferral of the bachelor's degree.
Students must maintain an overall GPA of 3.00 or higher in graduate 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.

Additional Attachments PHYS_BS_ME_BS_PHAE_MS_ProgramApprovalForm_COSCC.pdf

Reviewer Comments

Additional Comments

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

%wi_required.eschtml%

Key: 739