

Date Submitted: 10/17/22 1:38 pm

Viewing: **MEEGMS : Mechanical Engineering, Master of Science in Mechanical Engineering**

Last approved: 08/14/14 5:09 pm

Last edit: 11/07/22 10:40 am

Changes proposed by: chstung

Catalog Pages Using
this Program

[Mechanical Engineering_\(MEEG\).](#)

Submitter:

[575-5557](#)

User ID:

[chstung](#) ~~crsleaf1~~

Phone:

Program Status

[Active](#)

Academic Level

Graduate

Type of proposal

[Major/Field of Study](#)

Select a reason for this modification

Making Minor Changes to an Existing Certificate, Degree or Program (including 15 or fewer hours, admission/graduation requirements, Focused Studies or Tracks)

Are you adding a concentration?

No

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2023

College/School Code

College of Engineering (ENGR)

Department Code

In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Director of Curriculum Review and Program Assessment
4. Registrar Initial
5. Institutional Research
6. MEEG Chair
7. ENGR Curriculum Committee
8. ENGR Faculty
9. ENGR Dean
10. Global Campus
11. Provost Review
12. Graduate Council
13. Faculty Senate
14. Provost Final
15. Registrar Final
16. Catalog Editor Final

Approval Path

1. 10/26/22 9:00 am
Kevin Hall (kdhall):
Approved for ENGR Dean Initial
2. 10/26/22 2:47 pm
Christa Hestekin (chesteki):
Approved for GRAD Dean Initial
3. 10/26/22 3:47 pm
Alice Griffin (agriffin): Approved for Director of

Department of Mechanical Engineering (MEEG)

Program Code MEEGMS

Degree Master of Science in Mechanical Engineering

CIP Code

Curriculum Review
and Program
Assessment

4. 10/26/22 3:51 pm
Gina Daugherty
(gdaugher):
Approved for
Registrar Initial
5. 10/26/22 3:52 pm
Doug Miles
(dmiles): Approved
for Institutional
Research
6. 10/26/22 4:55 pm
Darin Nutter
(dnutter): Approved
for MEEG Chair
7. 11/01/22 9:11 am
Manuel Rossetti
(rossetti): Approved
for ENGR
Curriculum
Committee
8. 11/02/22 2:56 pm
Kevin Hall (kdhall):
Approved for ENGR
Faculty
9. 11/02/22 3:01 pm
Kevin Hall (kdhall):
Approved for ENGR
Dean
10. 11/02/22 3:28 pm
Suzanne Kenner
(skenner): Approved
for Global Campus
11. 11/02/22 4:11 pm
Jim Gigantino
(jgiganti): Approved
for Provost Review

12. 11/17/22 4:43 pm

Christa Hestekin
(chesteki):
Approved for
Graduate Council

History

1. Aug 14, 2014 by
Leepfrog
Administrator
(clhelp)

14.1901 - Mechanical Engineering.

Program Title

Mechanical Engineering, Master of Science in Mechanical Engineering

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total 30
hours needed to
complete the
program?

Program Requirements and Description

Requirements

Requirements for the Master of Science Degree: In addition to the requirements of the Graduate School and the graduate engineering faculty, the following departmental requirements must be satisfied by candidates for the M.S.M.E. degree.

Candidates who present a thesis are required to complete a minimum of 24 semester hours of course work and six semester hours of thesis.

Candidates who do not present a thesis are required to complete a minimum of 33 semester hours of course work, which is to include at least three hours of credit for Research or Special Problems (including a formal engineering report), completed under direction of the candidate's major adviser.

All students must present a grade-point average of 3.00 or better on all courses included in their plan of study, with no more than 6 hours of "C."

Students should also be aware of Graduate School requirements with regard to [master's degrees](#).

Accelerated MSME Degree

High-achieving BSME students at the University of Arkansas who choose to pursue graduate studies in MEEG may participate in the accelerated MSME program (thesis option only). Eligible BSME students can count up to 12 graduate-level credit hours of MEEG elective courses towards their MSME degree. The 12 credit hours may include a maximum of 6 hours of 4000-level courses but the remaining hours must be that of 5000-level courses. The 4000 level-courses must be approved for graduate credit in advance.

The degree requirements of the accelerated MSME program are identical to that of the current MSME program (thesis option). Students must complete at least 24 hours of coursework and at least 6 hours of MEEG 600V Master's Thesis. The 24 coursework hours include up to 12 hours transferred from the BSME degree.

BSME undergraduate students interested in the accelerated MSME program should apply to the program prior to starting the second-to-last semester of their undergraduate program and are strongly encouraged to identify their master's thesis advisors in their junior year. To be eligible, students must have a 3.5 cumulative GPA or higher, and submit the normal application materials required by the graduate school for the MSME degree program.

Are Similar Programs available in the area?

No

Estimated Student Demand for Program 20

Scheduled Program Review Date 2029-2030

Program Goals and Objectives

Program Goals and Objectives

1. Prepare students for independent studies in mechanical engineering.
2. Prepare students to contribute new knowledge of fundamental or applied importance.
3. Prepare students to disseminate new knowledge of fundamental or applied importance.

Learning Outcomes

Learning Outcomes

Learning Outcomes

1. Students will gain advanced knowledge in mechanical engineering.
2. a. Thesis: Students will gain a necessary understanding of their research field.
b. Non-thesis: Students will apply advanced coursework to an engineering problem.
3. a. Thesis: Students will contribute new knowledge of fundamental or applied importance.
b. Non-thesis: Students will demonstrate important application(s) of existing knowledge.
4. Students will be able to communicate effectively during oral presentations.
5. Students will be able to communicate effectively in writing.

Description and justification of the request

Description of specific change	Justification for this change
A new accelerated MSME Degree Program is created to allow high-achieving BSME students at UA to apply up to 12 hours towards their MSME degree.	This program is created for two purposes: (1) To retain high-achieving BSME students and provide them with an accelerated schedule to obtain their MSME degree. (2) To increase student population of the graduate program.
Information is added to Program Goals and Objectives and Learning Outcomes.	This information has been missing from program description.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (10/26/22 3:43 pm): ATTENTION REGISTRAR: Please remove the Undergraduate Council from the approval workflow.

Alice Griffin (agriffin) (10/26/22 3:45 pm): Changed the reason for the modification from Making Changes that Qualify for a Shortened Approval Process to Making Minor Changes to an Existing Degree Program. Inclusion of the accelerated MSME program does not qualify for the shortened approval process. This minor change will require campus approval. The change did not impact workflow, thus I submitted the change.

Gina Daugherty (gdaugher) (10/26/22 3:51 pm): Removed Undergraduate Council from workflow.

Manuel Rossetti (rossetti) (11/01/22 9:11 am): Added "The 4000 level-courses must be approved for graduate credit in advance."