

Date Submitted: 03/08/21 1:05 pm

Viewing: **ENGRME : Engineering, Master of Science in Engineering**

Last approved: 03/16/18 1:41 pm

Last edit: 03/09/21 10:48 am

Changes proposed by: harris

Catalog Pages Using
this Program

[Engineering, College of \(ENGR\)](#)

Submitter: User ID: calison Phone:
575-6731

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 Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

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 2021

College/School Code

College of Engineering (ENGR)

In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. Institutional Research
6. ENGD Chair
7. ENGR Curriculum Committee
8. ENGR Faculty
9. ENGR Dean
10. Global Campus
11. Provost Review
12. University Course and Program Committee
13. Graduate Committee
14. Faculty Senate
15. Provost Final
16. Provost's Office-- Notification of Approval
17. Registrar Final
18. Catalog Editor Final

Approval Path

1. 02/24/21 10:17 am
Norman Dennis
(ndennis): Approved for ENGR Dean Initial
2. 02/24/21 10:25 am
Jim Gigantino

Department Code

Department of Engineering Dean (ENGD)

Program Code

ENGRME

Degree

Master of Science in Engineering

CIP Code

(jgiganti): Approved
for GRAD Dean

Initial

3. 02/24/21 10:34 am

Alice Griffin

(agriffin): Rollback
to ENGR Dean Initial

for Director of

Program

Assessment and

Review

4. 02/24/21 10:49 am

Norman Dennis

(ndennis): Approved
for ENGR Dean

Initial

5. 02/24/21 10:52 am

Jim Gigantino

(jgiganti): Approved
for GRAD Dean

Initial

6. 02/25/21 4:29 pm

Alice Griffin

(agriffin): Rollback
to Initiator

7. 03/08/21 2:19 pm

Norman Dennis

(ndennis): Approved
for ENGR Dean

Initial

8. 03/08/21 2:47 pm

Jim Gigantino

(jgiganti): Approved
for GRAD Dean

Initial

9. 03/09/21 10:49 am

Alice Griffin

(agriffin): Approved
for Director of

Program

- Assessment and Review
10. 03/09/21 5:35 pm
Lisa Kulczak
(lkulcza): Approved for Registrar Initial
 11. 03/09/21 6:46 pm
Gary Gunderman
(ggunderm): Approved for Institutional Research
 12. 03/09/21 8:24 pm
Norman Dennis
(ndennis): Approved for ENGD Chair
 13. 03/10/21 5:06 pm
Manuel Rossetti
(rossetti): Approved for ENGR Curriculum Committee
 14. 03/10/21 5:54 pm
Norman Dennis
(ndennis): Approved for ENGR Faculty
 15. 03/10/21 5:56 pm
Norman Dennis
(ndennis): Approved for ENGR Dean
 16. 03/11/21 7:36 am
Suzanne Kenner
(skenner): Approved for Global Campus
 17. 03/11/21 7:48 am
Terry Martin
(tmartin): Approved for Provost Review
 18. 03/19/21 4:45 pm
Alice Griffin

(agriffin): Approved for University Course and Program Committee
 19. 04/15/21 7:15 pm
 Jim Gigantino
 (jgiganti): Approved for Graduate Committee

History

1. May 1, 2017 by Charlie Alison (calison)
2. Sep 29, 2017 by Lisa Kulczak (lkulcza)
3. Mar 16, 2018 by Charlie Alison (calison)

14.0101 - Engineering, General.

Program Title

Engineering, Master of Science in Engineering

Program Delivery

Method

Online/Web-based

Is this program interdisciplinary?

No

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

No

What are the total hours needed to complete the program? **30** ~~24~~

On-line/Web-based Information

Reason for offering
Web-based Program
previously approved

Maximum Class Size na
for Web-based
Courses

Course delivery
mode

Method(s)
Online

Class interaction
mode

Method(s):
Electronic Bulletin Boards

Percent Online
100% with No Required Campus Component

Provide a List of
Services Supplied by
Consortia Partners or
Outsourced
Organization
previously provided

Estimate Costs of the na
Program over the
First 3 Years

List Courses Taught
by Adjunct Faculty

Upload
Memorandum of
Understanding Forms
(if required)

Program Requirements and Description

Requirements

General Requirements for the Master of Science Degrees in the College of Engineering: In addition to the requirements of the Graduate School, the following requirements have been established by the College of Engineering for all Master of Science graduates: Complete a minimum of 30 semester hours of graduate-level credit beyond the bachelor's degree that includes 50 percent graduate-level credit in the field of study. Earn a minimum cumulative grade-point average of 3.00 on all graduate courses attempted. Departments may set higher grade standards and additional requirements. **Master of Science in Engineering Degree:** The M.S.E. degree is available as a distance-delivered option. Courses are offered in five 8-week sessions each year. A Master of Science in Engineering (M.S.E.) degree is available for students who wish to take a broader range of courses than is usually permitted for **discipline-specific engineering degrees.** ~~the designated degrees listed in the previous paragraph.~~

Admission Requirements for Prerequisites to the Master of Science in Engineering Degree: ~~Students with a B.S. In addition to degree from any engineering program accredited by the requirements of the Graduate School, a Bachelor of Science degree from any engineering program accredited by the~~ Engineering Accreditation Commission ~~or Computing of the~~ Accreditation Commission of ABET, www.abet.org, is required ~~Board for entry Engineering and Technology are normally accepted~~ into the program. **Graduates from programs accredited in accordance with the Washington or Seoul Accords may be considered for admission.** ~~the M.S.E.~~

program. Requirements for the Master of Science in Engineering Degree: The general minimum requirements of the Graduate School for Master of Science degrees must be met. The graduate faculty of the College of Engineering has established the following specific requirements for the Master of Science in Engineering degree: Complete a minimum of 30 semester hours of graduate-level credit beyond the bachelor's degree. Up to 6 semester hours of project research can be used to satisfy the required 30 semester hours of credit by writing a project paper approved by the departmental faculty.

Course requirements:

One 3-hour course from each of the following four areas for a total of 12 hours: mathematics, computer applications, technical communications, and **engineering** management;

Three 3-hour courses from a single engineering emphasis with the approval of the advisory committee;

Nine additional graduate-level hours from any area with the approval of the advisory committee, **and**

~~with: A maximum of four 4000-level graduate courses, with the remainder at the 5000 level or higher; and~~ A maximum of four Operations Management (OMGT) **courses; EMGT 5033 Introduction to Engineering Management is included in the count of four.** ~~courses~~

Earn a minimum cumulative grade-point average of 3.00 on all graduate courses attempted. Minimum grades of "B" are required on 80 percent of the graduate hours taken for credit towards the M.S.E. degree.

Satisfactorily complete a comprehensive examination.

The program of study for each candidate will be determined by conference with the major professor and with advice from the candidate's graduate committee.

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

Are Similar Programs available in the area?

No

Estimated Student NA

Demand for Program

Scheduled Program **2021-2022** ~~NA~~

Review Date

Program Goals and

Objectives

Program Goals and Objectives

Program Goals and Objectives

- 1. To produce graduates who will become technical leaders and managers in industry, government and the military.**
- 2. To provide students with a valuable, affordable, and convenient method of continuing their education while remaining active in the work force.**

~~NA~~

Learning Outcomes

Learning Outcomes

Student Learning Outcomes (SLO)

Students will:

- 1. Demonstrate in-depth knowledge of a specific engineering or computer science topical area.**
- 2. Apply knowledge of engineering, mathematics, and computational tools to solve engineering and computing problems.**
- 3. Locate, analyze and comprehend relevant engineering literature.**
- 4. Communicate effectively through written and oral presentations.**
- 5. Describe the value of life-long learning and professional development.**
- 6. Explain the importance of professional and ethical responsibility.**
- 7. Apply management skills.**

~~NA~~

Description and justification of the request

Description of specific change

Justification for this change

Description of specific change	Justification for this change
<p>Adding admission requirements to include degrees earned from a program accredited by the Computing Accreditation Commission of ABET. Corrected number of hours required for the program and removed the maximum allowable hours for 4000-level courses as they are no longer offered. Deleted redundant or obsolete wording.</p>	<p>To expand admission requirements and correct existing text in the requirements.</p>

Upload attachments

Reviewer Comments

Norman Dennis (ndennis) (02/24/21 10:16 am): Minor editorial changes to admission requirements.

Alice Griffin (agriffin) (02/24/21 10:34 am): Rollback: Rolling back per request from Norm Dennis.

Norman Dennis (ndennis) (02/24/21 10:47 am): Rearranged paragraphs in the requirements section and deleted redundant wording.

Alice Griffin (agriffin) (02/25/21 4:25 pm): Revised scheduled program review date.

Alice Griffin (agriffin) (02/25/21 4:29 pm): Rollback: Please upload the program goals and student learning outcomes. I have not been able to find any in the assessment records.

Alice Griffin (agriffin) (03/09/21 9:13 am): Hyperlinked EMGT 5033 to include course title.

Alice Griffin (agriffin) (03/09/21 10:48 am): Revised language in program requirements with input from submitter.

Key: 269