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

History

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
for Web-based
Courses

na

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 ofEngineering:In addition to the requirements of the Graduate School, the following requirements have been established by the College of Engineering for all Master of Sciencegraduates: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 ofstudy.Earn a mi nimum cumulative grade-point average of 3.00 on all graduate coursesattempted.Departments may set higher grade standards and additionalrequirements.~~**Master of Science in Engineering Degree: The** ~~The~~ M.S.E. degree is available as a distance-delivered option. Courses are offered in five 8-week **sessions** ~~terms~~ 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 aB.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 Demand for Program	NA
Scheduled Program Review Date	**2021-2022** ~~NA~~
Program Goals and Objectives	

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
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.	To expand admission requirements and correct existing text in the requirements.

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