

College of Engineering(ENGR)

Department Code

- to Initiator
3. 11/30/17 1:14 pm
Norman Dennis
(ndennis): Approved
for ENGR Dean
Initial
4. 12/11/17 3:50 pm
Patricia Koski
(pkoski): Approved
for GRAD Dean
Initial
5. 12/12/17 12:36 pm
Alice Griffin
(agriffin): Approved
for Director of
Program
Assessment and
Review
6. 12/14/17 4:41 pm
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
7. 12/20/17 3:21 pm
Ed Pohl (epohl):
Approved for INEG
Chair
8. 01/31/18 12:30 pm
Manuel Rossetti
(rossetti): Approved
for ENGR
Curriculum
Committee
9. 01/31/18 1:01 pm
Norman Dennis
(ndennis): Approved
for ENGR Faculty
10. 01/31/18 1:02 pm
Norman Dennis
(ndennis): Approved
for ENGR Dean

11. 02/02/18 3:25 pm
Kiersten Bible
(kbible): Approved
for Global Campus
12. 02/06/18 12:55 pm
Terry Martin
(tmartin): Approved
for Provost Review
13. 02/23/18 4:46 pm
Alice Griffin
(agriffin): Approved
for University
Course and Program
Committee
14. 03/29/18 5:06 pm
Patricia Koski
(pkoski): Approved
for Graduate
Committee

History

1. May 12, 2017 by
Rich Ham (richardh)
2. May 16, 2017 by
Charlie Alison
(calison)
3. May 16, 2017 by
Charlie Alison
(calison)
4. May 16, 2017 by
Charlie Alison
(calison)
5. May 16, 2017 by
Charlie Alison
(calison)
6. May 19, 2017 by
Charlie Alison
(calison)
7. May 23, 2017 by
Charlie Alison

(calison)

8. May 24, 2017 by
Charlie Alison
(calison)
9. May 25, 2017 by
Lisa Kulczak (lkulcza)
10. Jun 30, 2017 by
Amanda Corbell
(ac087)

Department of Industrial Engineering(INEG)

Program Code EMGTMS

Degree Master of Science in Engineering Management

CIP Code
14.0101 - Engineering, General.

Program Title
Engineering Managment, Master of Science in Engineering Management

Program Delivery

Method

On Campus

Off Campus

Online/Web-based

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?

Off Campus Information

Off Campus

Location(s)

Location Name	Address	Distance from Main

		Site
Little Rock AFB	1490 Vandenberg Blvd, Room 107, Jacksonville, AR 72099	195
North Central Florida - Hurlburt AFB	221 Lukaski Ave., Hurlburt Field, FL 32544	729
Naval Air Station Millington, Tennessee	5750 Millington, TN 38504	335

Reason for Offering
Program Off Campus
already approved

Fifty percent of the
credits required will
be offered

Both - off-campus location and distance technology

Will Students complete all Program Requirements at this Location?

No ~~A~~

Where will the
Program be
completed?
already approved

Upload
Memorandum of
Understanding Forms
(if required)

On-line/Web-based Information

Reason for offering
Web-based Program

Marketing research and needs assessment indicate working engineers prefer the flexibility of online instruction. Additionally, needs expressed by 10% of engineers in the operations management program along with the flexibility of 5 8-week terms. The attached survey shows decision makers in Arkansas companies believe an option for mixed methods including web-based/online instruction is an important part of any program.

Maximum Class Size 35
for Web-based

Courses

Course delivery
mode

Method(s)
Online

Class interaction
mode

Method(s):
Other

Specify Other

Interaction Methods

Synchronous video

Percent Online

100%

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

None

Estimate Costs of the
Program over the
First 3 Years

Refer to attached
spreadsheet.

List Courses Taught
by Adjunct Faculty

Upload
Memorandum of
Understanding Forms
(if required)

Program Requirements and Description

Requirements

Admissions requirements:

Conferred bachelor of science in engineering degree from an engineering program accredited by the Engineering Accreditation Commission of ABET (or equivalent accreditation),
 A grade point average (GPA) of 3.0 or better (A=4.0) on all course work taken prior to receipt of the engineering bachelor degree, or a GPA of 3.0 or better on the last 60 hours of course work taken prior to receipt of the engineering bachelor degree.

Applicants with a 3.0 or better GPA are not required to take ~~Requirements for~~ the GRE.

Requirements for the Master of Science in Engineering Management:

Core Courses (12 hours)

EMGT 5033	Introduction to Engineering Management (Irregular)	3
INEG 5443	Decision Models (Irregular)	3
OMGT 5463	Economic Decision Making (Irregular)	3
OMGT 5783	Project Management for Operations Managers (Irregular)	3

Engineering Sequence

9

Three-course sequence from the following subject codes: BENG, BMEG, CHEG, CSCE, CVEG, ELEG, EMGT, INEG, or MEEG.

Students are encouraged to review the online engineering courses and select an approved cohesive sequence that meets their professional objectives.

Electives

9

Choose three courses from the available online EMGT, OMGT, engineering courses (listed above), or other approved graduate-level courses.

Suggested Electives:

OMGT 5793	Risk Management (Irregular)
OMGT 5003	Introduction to Operations Management (Sp, Su, Fa)
OMGT 5253	Leadership Principles and Practices (Sp, Su, Fa)
OMGT 5423	Operations Management & Global Competition (Sp)
OMGT 5653	Introduction to Data Analytics for Operations Managers (Irregular)
OMGT 5983	Advanced Project Management (Irregular)
MGMT 5323	New Venture Development (Fa)
MGMT 5363	Innovation & Creativity (Sp)

Comprehensive Exam

A minimum of 80 percent of course work, including all core and engineering sequence courses, must be completed prior to the comprehensive oral exam.

Total Hours

30

Are Similar Programs available in the area?

No

Estimated Student 30

Demand for Program

Scheduled Program Fall 2019-20

Review Date

Program Goals and Objectives

Program Goals and Objectives

Prepare students to lead and manage engineering programs, technology, personnel and functions.

Learning Outcomes

Learning Outcomes

1. Create engineering management strategic plans to support an organization's vision and **mission.**
~~mission.~~

2. Evaluate and apply leadership theories for a technical workforce.

3. Apply techniques leading multi-disciplinary project teams to solve complex problems in global operations involving processes, technology and **people.**
~~people.~~

4. Assess financial status of programs and organizations using quantitative tools and propose solutions to root causes of **deficiencies.**
~~deficiencies.~~

5. Develop and evaluate solutions to complex, contemporary engineering management problems using qualitative and quantitative decision and risk **models.**
~~models.~~

6. Effectively communicate decision papers to senior stakeholders and decision makers

Description and justification of the request

Description of specific change	Justification for this change
<p>Changed GRE requirement to be consistent with the MSOM program and with other competitive Engineering Management programs. The GRE is viewed as a discouraging factor for working professionals and there is no data to indicate a GRE score is an indicator of success. The requirement of 3.0 and professional experience has been a good indicator of success in the MSOM and MSE programs.</p>	<p>The MSEM program is professional masters degree program. The director will look for various criteria to consider whether requiring the GRE for those applicants with a GPA below 3.0. A Professional Engineer certification, depth of experience and level of responsibility are a few areas. In a few unusual cases, a student going directly to a professional master's program with a history of rigorous academic accomplishment may be considered to enter the program.</p>

Upload attachments

Reviewer Comments

Norman Dennis (ndennis) (09/14/17 9:26 am): Rollback: It was my understanding that this program was intended to be an on-line only program. What is the justification for changing it to mixed mode? OMGT has an exception from the grad council to not require the GRE for working professionals. At least that is how the request was presented to the council. By stating it the way you do in the catalog, students with no professional experience will fall under the same rule. Is that your intend?

Norman Dennis (ndennis) (09/26/17 10:36 am): Rollback: You cannot advertise admission requirements that are lower than the grad school minimums. Grad school requires 3.0 on last 60 hours. If you want to waive the GRE you should establish a higher than minimum GPA or seek a waiver for the program as a whole.

Norman Dennis (ndennis) (11/30/17 1:13 pm): edited the change description and removed the Little Rock Downtown site.

Alice Griffin (agriffin) (12/12/17 12:35 pm): Changed effective catalog year from fall 2017 to fall 2018. Also changed total hours for program from 12 to 30 hours.

Key: 601