

Date Submitted: 01/15/19 1:40 pm

Viewing: **EMGTMS : Engineering Management,**  
**Management, Master of Science in Engineering**  
**Management**

Last approved: 05/14/18 8:46 am

Last edit: 01/15/19 1:40 pm

Changes proposed by: richardh

Catalog Pages Using  
 this Program

[Engineering Management \(EMGT\)](#)

Submitter: User ID: richardh Phone:  
 479-575-5521

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

Select a reason for this modification

Requesting Approval to Offer an Existing Certificate or Degree at Off-Campus Location  
 —(LON)

Are you adding a concentration?  
 No

Are you adding a track?  
 No

Are you adding a focused study?  
 No

Effective Catalog Year Fall 2019

College/School Code  
 College of Engineering(ENGR)

### In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Provost Initial
4. Director of Program Assessment and Review
5. Registrar Initial
6. Institutional Research
7. INEG Chair
8. ENGR Curriculum Committee
9. ENGR Faculty
10. ENGR Dean
11. Global Campus
12. Provost Review
13. University Course and Program Committee
14. Graduate Committee
15. Faculty Senate
16. Provost Final
17. ADE Licensure Approval
18. Provost's Office-- Documentation sent to System Office
19. Higher Learning Commission
20. Board of Trustees
21. ADHE Final
22. Provost's Office-- Notification of Approval
23. Registrar Final

## Department Code

Department of Industrial Engineering(INEG)

## Program Code

EMGTMS

## Degree

Master of Science in Engineering Management

## CIP Code

## 24. Catalog Editor Final

**Approval Path**

1. 11/28/18 1:29 pm  
Norman Dennis  
(ndennis): Approved  
for ENGR Dean  
Initial
2. 11/28/18 1:32 pm  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
3. 11/30/18 1:43 pm  
Terry Martin  
(tmartin): Approved  
for Provost Initial
4. 11/30/18 3:09 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
5. 12/06/18 1:10 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
6. 12/06/18 1:23 pm  
Gary Gunderman  
(ggunderm):  
Approved for  
Institutional  
Research
7. 12/06/18 1:26 pm  
Ed Pohl (epohl):  
Approved for INEG  
Chair
8. 12/07/18 2:22 pm  
Manuel Rossetti  
(rossetti): Rollback

- to INEG Chair for  
ENGR Curriculum  
Committee
9. 12/07/18 2:23 pm  
Ed Pohl (epohl):  
Approved for INEG  
Chair
10. 01/07/19 4:21 pm  
Manuel Rossetti  
(rossetti): Rollback  
to Initiator
11. 01/15/19 2:49 pm  
Norman Dennis  
(ndennis): Approved  
for ENGR Dean  
Initial
12. 01/15/19 3:06 pm  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
13. 01/16/19 9:50 am  
Terry Martin  
(tmartin): Approved  
for Provost Initial
14. 01/16/19 2:12 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
15. 01/16/19 5:48 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
16. 01/17/19 8:08 am  
Gary Gunderman  
(ggunderm):  
Approved for

- Institutional  
Research
17. 01/17/19 8:37 am  
Ed Pohl (epohl):  
Approved for INEG  
Chair
18. 01/25/19 1:37 pm  
Manuel Rossetti  
(rossetti): Approved  
for ENGR  
Curriculum  
Committee
19. 02/08/19 2:51 pm  
Norman Dennis  
(ndennis): Approved  
for ENGR Faculty
20. 02/08/19 2:52 pm  
Norman Dennis  
(ndennis): Approved  
for ENGR Dean
21. 02/08/19 2:56 pm  
Leigh Ann Marshall  
(lamarsh): Approved  
for Global Campus
22. 02/09/19 8:16 am  
Terry Martin  
(tmartin): Approved  
for Provost Review
23. 02/22/19 4:00 pm  
Alice Griffin  
(agriffin): Approved  
for University  
Course and Program  
Committee
24. 03/15/19 8:22 am  
Pat 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)
11. May 14, 2018 by Rich Ham (richardh)

14.0101 - Engineering, General.

### Program Title

Engineering **Management, 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 hours needed to complete the program? 30

## Off Campus Information

Off Campus

Location(s)

| Location Name                                  | Address   | Distance from Main Site |
|--|---|-------------------------|
| Walton College at 2nd and Main Little Rock AFB | 119 S Main St Little Rock, Arkansas 72201 <del>1490 Vandenberg Blvd, Room 107, Jacksonville, AR 72099</del> | 186 <del>195</del>      |
| 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

**Adding Walton College at 2nd and Main to replace Little Rock AFB site. ~~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

Where will the Program be

completed?

**Online, live, hybrid, synchronous and mixture of modes. No change to current offerings already approved**

Upload

Memorandum of

Understanding Forms

(if required)

## On-line/Web-based Information

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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)                                  |
|--|
| Blended Delivery Methods <del>Online</del> |

Describe Blended

Delivery Methods

**Student has the option of taking classes in several different modes depending on their timeline for program completion. Face-to-face instruction will be offered on site. However, if a student prefers, they can receive on-line instruction via synchronous or pre-recorded video. Both methods of course completion will be available to the student.**

Class interaction  
mode

| Method(s):                                  |
|---|
| Electronic Bulletin Boards <del>Other</del> |

Percent Online

100% with No Required Campus Component

**50-99%**

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

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### 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 the GRE.

#### Requirements for the Master of Science in Engineering Management:

Core Courses (12 hours)

|                                  |  |   |
|----------------------------------|--|---|
| <a href="#"><u>EMGT 5033</u></a> | Introduction to Engineering Management     | 3 |
| <a href="#"><u>INEG 5443</u></a> | Decision Models                            | 3 |
| <a href="#"><u>OMGT 5463</u></a> | Economic Decision Making                   | 3 |
| <a href="#"><u>OMGT 5783</u></a> | Project Management for Operations Managers | 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:

|                           |  |
|---------------------------|--|
| <a href="#">OMGT 5793</a> | Risk Management  |
| <a href="#">OMGT 5003</a> | Introduction to Operations Management                  |
| <a href="#">OMGT 5253</a> | Leadership Principles and Practices                    |
| <a href="#">OMGT 5423</a> | Operations Management & Global Competition             |
| <a href="#">OMGT 5653</a> | Introduction to Data Analytics for Operations Managers |
| <a href="#">OMGT 5983</a> | Advanced Project Management                            |
| <a href="#">MGMT 5323</a> | New Venture Development                                |
| <a href="#">MGMT 5363</a> | Innovation & Creativity                                |

#### 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 **2021-2022** ~~2019-~~

Review Date ~~20~~

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

### Learning Outcomes

5. Develop and evaluate solutions to complex, contemporary engineering management problems using qualitative and quantitative decision and risk 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  |
|---|--|
| Adding Walton College at 2nd and Main as a course delivery site | Substituting this site for closed Little Rock AFB site to better serve students in central Arkansas. |

#### Upload attachments

[Decision Paper on Closing Down Little Rock AFB Site\[1\].docx](#)

[EMGTMS - Off-Campus Location - Ltr of Notifcation.docx](#)

#### Reviewer Comments

**Alice Griffin (agriffin) (11/30/18 2:52 pm):** Changed miles to 186 to match LON. Cleaned up reason for offering. Changed effective date in LON from spring to fall 2019 and inserted approval dates. Renamed document to match naming convention of BOT materials.

**Manuel Rossetti (rossetti) (12/07/18 2:22 pm):** Rollback: Fix the LON

**Manuel Rossetti (rossetti) (01/07/19 4:21 pm):** Rollback: rolled back to fix wording

Key: 601