New Program Proposal

Date Submitted: 02/07/21 12:16 pm

Viewing: EMGTGC: Engineering Management

Graduate Certificate

Last edit: 02/19/21 9:26 am

Changes proposed by: richardh

Submitter: User ID: richardh Phone:

4795755521

Program Status Active

Academic Level Graduate

Type of proposal Certificate

Select a reason for Adding New Graduate Certificate (12-21

this new program semester hours)--(LON)

Effective Catalog Year Fall 2021

College/School Code

College of Engineering (ENGR)

Department Code

Department of Industrial Engineering (INEG)

Program Code EMGTGC

Degree Graduate Certificate

CIP Code

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. Provost's Office-Documentation sent
 to System Office
- 18. Higher Learning Commission
- 19. Board of Trustees
- 20. ADHE Final
- 21. Provost's Office--Notification of Approval
- 22. Registrar Final
- 23. Catalog Editor Final

Approval Path

- 1. 12/04/20 3:34 pm Norman Dennis (ndennis): Approved for ENGR Dean Initial
- 2. 12/04/20 3:52 pm
 Pat Koski (pkoski):
 Approved for GRAD
 Dean Initial
- 3. 12/08/20 4:05 pm
 Terry Martin
 (tmartin): Approved
 for Provost Initial
- 4. 12/09/20 2:54 pm Alice Griffin (agriffin): Rollback to Initiator
- 5. 02/08/21 4:01 pm Norman Dennis (ndennis): Approved for ENGR Dean Initial
- 6. 02/08/21 5:09 pm
 Jim Gigantino
 (jgiganti): Approved
 for GRAD Dean
 Initial
- 7. 02/09/21 11:06 am
 Terry Martin
 (tmartin): Approved
 for Provost Initial
- 8. 02/09/21 2:01 pm
 Alice Griffin
 (agriffin): Approved
 for Director of
 Program
 Assessment and
 Review

9. 02/09/21 5:08 pm Lisa Kulczak (Ikulcza): Approved for Registrar Initial

- 10. 02/09/21 5:30 pm
 Gary Gunderman
 (ggunderm):
 Approved for
 Institutional
 Research
- 11. 02/13/21 8:32 am
 Ed Pohl (epohl):
 Approved for INEG
 Chair
- 12. 02/18/21 9:38 am
 Manuel Rossetti
 (rossetti): Approved
 for ENGR
 Curriculum
 Committee
- 13. 02/18/21 9:43 am

 Norman Dennis

 (ndennis): Approved
 for ENGR Faculty
- 14. 02/18/21 10:34 am

 Norman Dennis

 (ndennis): Approved
 for ENGR Dean
- 15. 02/18/21 10:37 am
 Suzanne Kenner
 (skenner): Approved
 for Global Campus
- 16. 02/18/21 10:46 am
 Terry Martin
 (tmartin): Approved
 for Provost Review

15.1501 - Engineering/Industrial Management.

Program Title

Engineering Management Graduate Certificate

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

12

hours needed to complete the

program?

Off Campus Information

Off Campus

Location(s)

Location Name	Address	Distance from Main Site
Walton College at 2nd and Main	119 S. Maint St Little Rock, AR 72291	186
North Central Florida - Hurlburt AFB	221 Lukaski Ave., Hurlburt Field, FL 32644	729
Naval Air Station Millington Tennessee	5750 Millington, TN, 38504	335

Reason for Offering

Program Off Campus

During marketing surveys, current and potential students have indicated a desire for graduate certificates focusing on specific disciplines within operations management. This initiative led to MSOM certificates in Project Management, Lean Six Sigma and Homeland Security Operations which has resulted in more than 198 certificates awarded since 2018. A new need emerged from student interest; students with an undergraduate STEM degree or an MS in another discipline (e.g., M.S. in Engineering or M.S. in Operations Management) seeking a broad understanding of engineering management to upgrade skills or prepare for engineering management positions. May be used as an entry to the Master of Science in Engineering Management, but cannot be awarded concurrently with the degree.

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

Upload

Memorandum of

Understanding Forms

(if required)

On-line/Web-based Information

35

Reason for offering

Web-based Program

Market research and needs assessment indicate working professionals prefer the flexibility of online instruction. Additionally, needs expressed by students in the MSOM, MSEM and MSE programs prefer 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

for Web-based

Courses

Course delivery

mode

Method(s)

Blended Delivery Methods

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

Method(s):

mode Electronic Bulletin Boards

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 Absorbed in current

Program over the

program.

First 3 Years

List Courses Taught

by Adjunct Faculty

Upload

Memorandum of

Understanding Forms

(if required)

Program Requirements and Description

Requirements

Core Courses (9 hours)

EMGT 5033Introduction to Engineering ManagementEMGT 5603Systems Thinking and Systems Engineering

OMGT 5783 Project Management for Operations Managers

Electives (select one)

OMGT 5003 Introduction to Operations Management

OMGT 5253 Leadership Principles and Practices

OMGT 5463 Economic Decision Making

Total Hours 12

Program Costs

See attached spreadsheet. Cost absorbed in the current program. No new course requirements.

Library Resources

No additional cost.

Instructional

Facilities

No additional cost.

Faculty Resources

No additional cost.

List Existing Certificate or Degree Programs

that Support the Proposed Program

Program(s)

EMGTMS - Engineering Management, Master of Science in Engineering Management

ENGRME - Engineering, Master of Science in Engineering

OPMGMS - Operations Management, Master of Science in Operations

Management

Are Similar Programs available in the area?

No

Estimated Student 20

Demand for Program

Scheduled Program 2028-2029

Review Date

Program Goals and

Objectives

Program Goals and Objectives

Program Goals and Objectives

Program Goals:

- 1. Provide internationally competitive and industry-recognized education to meet the emerging needs of engineering, engineering management, and operations management professionals.
- 2. Prepare students to assume leadership roles in industry and government employing engineering management principles and practices.

Program Objectives:

- 1. Select and apply the appropriate tools and analysis methods to improve engineering management and systems engineering processes to achieve the organizational mission.
- 2. Be able to plan and lead projects to improve engineering management processes and deliver products and services.
- 3. Concisely communicate to decision-makers.

Learning Outcomes

Learning Outcomes

Expected student learning outcomes

- 1. Develop broad competencies in engineering management principles and practices.
- 2. Demonstrate skills to lead engineering management projects to provide new or improved products and services.
- 3. Apply problem-solving using systems thinking and system engineering principles.

Description and Justification for this request

Description of request	Justification for request
Continuing strategic pursuit of graduate certificates based	Allowing intermediate certificate for student
on enrollment data and interest as well as evidence of	interested in graduate degrees; allows engineers
enrollments for the first three certificates exceeding	and STEM majors to add skills required to lead
estimates	and manage engineering management
	functions.

Upload attachments

- 4x emgtgc cost for engineering management gc 02262021.xlsx
- 4x emgtgc graduate certificate Itrofnotification 02262021.pdf
- 4x emgtgc graduate certificate supporting documentation 02262021.docx
- 4x emgtgc graduate certificate engr supporting documentation 02262021.docx

Reviewer Comments

Alice Griffin (agriffin) (12/09/20 2:54 pm): Rollback: Please update LON, program requirements, and scheduled program review date based on the email correspondence from 12/9/2020. Also please correct typo in program title.

Alice Griffin (agriffin) (02/09/21 12:48 pm): Reformatted program requirements by clicking on the total hours field and indenting courses to reflect 12 total hours. College is encouraged to review for the desired appearance.

Alice Griffin (agriffin) (02/09/21 12:55 pm): Corrected minor typos in program title field and justification.

Alice Griffin (agriffin) (02/09/21 1:17 pm): Changed scheduled program review date field to match proposed date submitted in the Letter of Notification.

Alice Griffin (agriffin) (02/09/21 1:55 pm): Exchanged OMGT 5303 with OMGT 5253 with permission from submitter.

Alice Griffin (agriffin) (02/09/21 1:59 pm): Revised LON and Supporting documentation with support from submitter. Renamed documents to match BOT naming convention.

Lisa Kulczak (Ikulcza) (02/09/21 5:07 pm): Changed program code to be consistent with naming convention of EMGTMS.

Alice Griffin (agriffin) (02/18/21 11:43 am): Renamed BOT materials to match revised program code presented by Registrar's Office.

Alice Griffin (agriffin) (02/19/21 9:26 am): Changed names of documents to match the revised naming convention of program code.

Kev: 818