New Program Proposal

Date Submitted: 02/07/21 12:39 pm

Viewing: **OPMGGC : Operations Management Graduate Certificate**

Last edit: 02/19/21 9:07 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 this new program	Adding New Graduate Certificate (12-21 semester hours)--(LON)
Effective Catalog Year	Fall 2021

College/School Code
    College of Engineering (ENGR)

Department Code
    Department of Industrial Engineering (INEG)

Program Code	OPMGGC
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. 12/08/20 2:18 pm Norman Dennis (ndennis): Approved for ENGR Dean Initial

2. 12/08/20 2:24 pm Pat Koski (pkoski): Approved for GRAD Dean Initial

3. 12/08/20 4:04 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 3:58 pm Norman Dennis (ndennis): Approved for ENGR Dean Initial

6. 02/08/21 5:10 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 4:25 pm Alice Griffin (agriffin): Approved for Director of Program Assessment and Review

9. 02/09/21 7:22 pm Lisa Kulczak (lkulcza): Approved for Registrar Initial

10. 02/09/21 7:34 pm Gary Gunderman (ggunderm): Approved for Institutional Research

11. 02/10/21 11:38 am Ed Pohl (epohl): Approved for INEG Chair

12. 02/18/21 9:37 am Manuel Rossetti (rossetti): Approved for ENGR Curriculum Committee

13. 02/18/21 9:42 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

Operations 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 Main St Little Rock, Arkansas 72201	186
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

During marketing surveys, current and potential students have indicated a desire for graduate certificates focusing on specific disciplines within operations management. Military students showed particular interest in the programs. 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 degree or an MS in another discipline (e.g., M.S. in Engineering or M.S. in Engineering Management) seeking a broad understanding of operations management to upgrade skills or prepare for operations management positions. May be used as an entry to the Master of Science in Operations 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

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   35
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 mode

Method(s):
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 Program over the First 3 Years	Absorbed in current program costs. No additional course development required. See spreadsheet attched.

List Courses Taught
by Adjunct Faculty

Upload
Memorandum of
Understanding Forms
(if required)

Program Requirements and Description

Requirements

Admissions requirements:

1. Conferred bachelor of science in a STEM program designed by the US Department of Education.
2. Admitted by the graduate school as non-degree seeking student.
3. Applicants with a 3.0 or better not required to take the GRE; program director may evaluate admission based on evidence of
potential success with a GPA of 2.5 or better.

Requirements for the Operations Management Graduate Certificate

Course Courses (9 hours)		9
OMGT 5003	Introduction to Operations Management	
OMGT 5783	Project Management for Operations Managers	
OMGT 5473	Lean Six Sigma	
Electives (select one)		3
OMGT 5253	Leadership Principles and Practices	
OMGT 5873	Organizing for Change	
OMGT 5013	Supply Chain Management for Operations Managers	
OMGT 5373	Quality Management	
OMGT/INEG 5433	Cost Estimation Models	
OMGT 5673	Principles of Operations Research	
Total Hours		12

Program Costs

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

Library Resources

None. 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)
OPMGMS - Operations Management, Master of Science in Operations Management
EMGTMS - Engineering Management, Master of Science in Engineering Management
ENGRME - Engineering, Master of Science in Engineering

Are Similar Programs available in the area?

No

| Estimated Student Demand for Program | 25 |

| Scheduled Program Review Date | 2028-2029 |

Program Goals and
Objectives

Program Goals and Objectives
Program Goals: 1. Provide internationally competitive and industry-recognized education to meet emerging needs of engineering, engineering management, and operations management professionals. 2. Prepare students to assume leadership roles in industry and government employing the 10 operations management decisions. Program Objectives: 1. Select and apply the appropriate tools and analysis methods to improve operations in the 10 operations management decisions: goods and services, quality management, process and capacity management, location, layout design and strategy, human resources and job design, supply chain, management, inventory, scheduling, and maintenance 2. Be able to plan and lead projects to improve operations. 3. Use Lean Six Sigma to translate customer feedback and enterprise goals into operation management improvements. 4. Concisely communicate to decision-makers.

Learning Outcomes

Learning Outcomes
Expected student learning outcomes 1. Develop broad competencies in the 10 operations management decisions. 2. Demonstrate skills to lead operations management projects to provide new or improved operations to deliver products and services. 3. Apply problem-solving using Lean Six Sigma to improve operations management processes.

Description and Justification for this request

Description of request	**Justification for request**

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

Upload attachments

4x_opmggc_cost_for_operations_management_gc_02262021.xlsx

4x_opmggc_graduate_certificate_ltrofnotification_02262021.pdf

4x_opmggc_graduate_certificate_engr_supporting_documentation_02262021.docx

4x_opmggc_graduate_certificate_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.

Alice Griffin (agriffin) (02/09/21 2:09 pm): Reformatted curriculum in Program Requirements field to place curriculum into one course list in order to clearly present total hours for program. College is encouraged to review for accuracy.

Alice Griffin (agriffin) (02/09/21 2:20 pm): Removed independent listing of INEG 5433 and set it up as a cross referenced course with OMGT 5433. College is encouraged to review and revise as desired.

Alice Griffin (agriffin) (02/09/21 2:36 pm): Changed program code to be consistent with naming convention of OPMGMS.

Alice Griffin (agriffin) (02/09/21 2:40 pm): Revised LON and supporting documents. Inserted approval dates and renamed to match BOT naming convention.

Alice Griffin (agriffin) (02/09/21 4:25 pm): Changed schedule program review date to be consistent with other departmental programs.

Alice Griffin (agriffin) (02/19/21 8:49 am): Renamed all documents to match revised naming convention for program.

Key: 817