New Program Proposal

Date Submitted: 10/20/21 3:30 pm

Viewing: **OMDSGM : Decision Support for Operations Managers Graduate MicroCertificate**

Last edit: 11/03/21 3:50 pm

Changes proposed by: richardh

Submitter: 4795755521	User ID:	richardh	Phone:

Program Status — Active

Academic Level — Graduate

Type of proposal — MicroCertificate

Select a reason for this new program — Adding a New Graduate MicroCertificate

Effective Catalog Year — Summer 2022

College/School Code — College of Engineering (ENGR)

Department Code — Department of Industrial Engineering (INEG)

Program Code — OMDSGM

Degree — Graduate MicroCertificate

CIP Code

In Workflow

1. **ENGR Dean Initial**
2. **GRAD Dean Initial**
3. **Director of Curriculum Review and Program Assessment**
4. **Registrar Initial**
5. **Institutional Research**
6. **INEG 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 Council
14. Faculty Senate
15. Provost Final
16. Registrar Final
17. Catalog Editor Final

Approval Path

1. 11/03/21 2:33 pm Kevin Hall (kdhall): Approved for ENGR Dean Initial
2. 11/03/21 2:44 pm Pat Koski (pkoski): Approved for GRAD Dean Initial
3. 11/03/21 3:51 pm Alice Griffin

(agriffin): Approved for Director of Curriculum Review and Program Assessment

4. 11/09/21 1:11 pm Gina Daugherty (gdaugher): Approved for Registrar Initial

5. 11/10/21 10:38 am Doug Miles (dmiles): Approved for Institutional Research

6. 11/10/21 10:42 am Ed Pohl (epohl): Approved for INEG Chair

7. 12/03/21 7:36 am Manuel Rossetti (rossetti): Approved for ENGR Curriculum Committee

8. 12/17/21 1:59 pm Kevin Hall (kdhall): Approved for ENGR Faculty

9. 12/17/21 3:06 pm Kevin Hall (kdhall): Approved for ENGR Dean

10. 12/17/21 5:00 pm Suzanne Kenner (skenner): Approved for Global Campus

11. 12/21/21 9:09 am Ketevan Mamiseishvili

15.1501 - Engineering/Industrial Management.

Program Title

Decision Support for Operations Managers Graduate MicroCertificate

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   6
hours needed to
complete the
program?

On-line/Web-based Information

Reason for offering
Web-based Program

Students are working professionals who need flexible course offerings.

Maximum Class Size   35
for Web-based
Courses

Course delivery
mode

Method(s)
Blended Delivery Methods

Describe Blended
Delivery Methods

Hybrid, lecture, video synchronous, asynchronous delivery methods.

Class interaction
mode

Method(s):
Other

Specify Other

Interaction Methods

    All synchronous and asynchronous tools are available in current classes. Includes, but is not limited to video, discussion boards, email, synchronous video, and self-paced materials.

Percent Online

    100% with No Required Campus Component

    50-99%

Provide a List of

Services Supplied by

Consortia Partners or

Outsourced

Organization

    Normal university-supported services; Linkedin Learning, Blackboard.

Estimate Costs of the   1000

Program over the

First 3 Years

List Courses Taught

by Adjunct Faculty

Upload

Memorandum of

Understanding Forms

(if required)

Program Requirements and Description

Requirements

Admission Requirements: The Decision Support for Operations Managers Graduate MicroCertificate credential is open to students with a STEM undergraduate degree. Course pre-requisites or departmental consent for some courses may be required.

Students must apply for the Decision Support for Operations Managers Graduate MicroCertificate credential and be admitted to the Graduate School; the GRE requirement is waived for the Decision Support for Operations Managers Graduate MicroCertificate credential.

Students with an accredited undergraduate degree who complete the Graduate MicroCertificate may apply to Graduate Certificates in Engineering Management, Project Management, Operations Management, Lean Six Sigma, Homeland Security, and the Master of Science in Operations Management.

Requirements for the Decision Support for Operations Managers Graduate MicroCertificate (6 hours):

Required Courses (6 hours)

OMGT 5443	Decision Models	3
or INEG 5443	Decision Models	
OMGT 5833	Decision Support Application Development for Operations Management	3
Total Hours		6

Program Costs

Cost less than $1000 for miscellaneous costs such as instructor materials, No new course development is required. The MicroCertificate uses existing courses.

Library Resources

No additional library resources are required.

Instructional

Facilities

No additional instructional facilities are required.

Faculty Resources

Additional faculty not required.

List Existing Certificate or Degree Programs

that Support the Proposed Program

Program(s)
OPMGMS - Operations Management, Master of Science in Operations Management

Are Similar Programs available in the area?

No

| Estimated Student Demand for Program | 25 |
| Scheduled Program Review Date | na |

Program Goals and

Objectives

Program Goals and Objectives

Program Goals and Objectives
Program Goals: 1. Allow students to quantitatively and critically evaluate operational decisions. 2. Support data-driven decision-making in operations management. 3. Communicate optimal decisions, supported by data analysis and visualizations, to decision-makers and stakeholders.   Program Objectives: 1. Provide skills so students can frame multidimensional operations management decisions, identify tradeoffs and select optimal levels of benefits, costs and risks. 2. Acquire skills to gather, organize, analyze and visualize large volumes of operational data to support data-driven decision-making. 3. Prepare students to communicate results of decision analysis, including trade-offs between alternatives, to decision-makers and stakeholders.

Learning Outcomes

Learning Outcomes
Expected Student Learning Outcomes: 1. Develop and implement a mathematically sound decision process for single or multiple objective decisions, with both known and uncertain inputs. 2. Scrub, join, and analyze disparate data from multiple sources to support operations management decision-making. 3. Analyze and visualize multi-dimensional datasets. 4. Communicate data and analysis results to support operations management decision-making.

Description and Justification for this request

Description of request	Justification for request
Adding new MicroCertificate based on student and industry demand.	Market research and student feedback point toward a growing need for flexibility in program offerings based on working professionals, travel schedules, and family requirements.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (11/03/21 3:47 pm): Changed effective date from spring to summer 2022. This request is too late to complete approval before the start of the spring semester.

Alice Griffin (agriffin) (11/03/21 3:50 pm): Inserted "Graduate" to MicroCertificate in introductory paragraph and requirements statement for consistency.

Key: 892