New Program Proposal

Date Submitted: 10/20/21 2:52 pm

Viewing: OMOAGM : Analytics for Operations Managers Graduate MicroCertificate

Last edit: 11/03/21 4:06 pm

Changes proposed by: richardh

Submitter:	User ID:	richardh	Phone: 4795755521
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	OMOAGM		
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 2:35 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 4:06 pm Alice Griffin

(agriffin): Approved for Director of Curriculum Review and Program Assessment
4. 11/09/21 1:10 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 10:43 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 2:00 pm Kevin Hall (kdhall): Approved for ENGR Faculty
9. 12/17/21 3:16 pm Kevin Hall (kdhall): Approved for ENGR Dean
10. 12/17/21 5:04 pm Suzanne Kenner (skenner): Approved for Global Campus
11. 12/21/21 9:09 am Ketevan Mamiseishvili

(kmamisei): Approved for Provost Review

15.1501 - Engineering/Industrial Management.

Program Title

Analytics 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 hours needed to complete the program? 6

On-line/Web-based Information

Reason for offering Web-based Program

Students are working professionals who need flexible course offerings.

Maximum Class Size for Web-based Courses 35

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 Program over the First 3 Years 5000

List Courses Taught by Adjunct Faculty

Upload Memorandum of Understanding Forms (if required)

Program Requirements and Description

Requirements

Admission Requirements: The Analytics 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 Analytics for Operations Managers Graduate MicroCertificate credential and be admitted to the Graduate School; the GRE requirement is waived for the Analytics for Operations Managers Graduate MicroCertificate credential.

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

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

Required Courses (6 hours)

OMGT 5653	Introduction to Data Analytics for Operations Managers	3
OMGT 5693 ADVANCED ANALYTICS AND VISUALIZATION FOR OPERATIONS MANAGERS	Course OMGT 5693 ADVANCED ANALYTICS AND VISUALIZATION FOR OPERATIONS MANAGERS Not Found	3
Total Hours		6

Program Costs

Cost $5000 for miscellaneous costs such as instructor materials and course development. One new course development is required.

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

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Program Goals: 1. Provide necessary skills to identify, analyze, and interpret various types of data found in operations environments. 2. Prepare participants to communicate analyses and results effectively to decision-makers and stakeholders. Program Objectives: 1. Understand the different types of data produced in an operations environment. 2. Prepare participants to use key methods to enable data-driven decision-making. 3. Communicate the analyses and results effectively to decision-makers and stakeholders.

Learning Outcomes

Learning Outcomes
Expected Learning Outcomes: 1. Analyze and interpret numerical, categorical, and text data. 2. Make and interpret descriptive analytics to support decision-making by using unsupervised machine learning methods. 3. Make and interpret predictions to support decision-making by using supervised machine learning methods. 4. Describe and use ensemble techniques in machine learning. 5. Develop executive summaries, oral presentations, and detailed technical reports to communicate results of data analytics to decision-makers and stakeholders.

Description and Justification for this request

Description of request	Justification for request
Adding new Graduate Micro-Certificate 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 3:34 pm): Changed effective date from spring to summer 2022, as this request will not complete approval before the start of the spring semester.

Alice Griffin (agriffin) (11/03/21 3:36 pm): Adjusted minor formatting issues in program requirements.

Alice Griffin (agriffin) (11/03/21 4:05 pm): Inserted Graduate before MicroCertificate in program requirements statement for consistency.

Alice Griffin (agriffin) (11/03/21 4:06 pm): OMGT 5693 has been submitted for approval and is currently pending ENGR Curriculum Committee.

Key: 891