OPERATIONS MANAGEMENT GRADUATE CERTIFICATE

Supporting Documentation

a.   Curriculum outline - List of courses in new program - Underline required courses.

OMGT 5003 Introduction to Operations Management

OMGT 5783 Project Management for Operations Managers

OMGT 5473 Lean Six Sigma

Electives (select one)

OMGT 5253 Leadership Principles and Practices

OMGT 5873 Organizing for Change

OMGT 5013 Supply Chain Management for Operations Managers

OMGT 5373 Quality Management

INEG/OMGT 5443 Decision Models

OMGT 5673 Principles of Operations Research

b.   Total semester credit hours required for proposed program (Program range:  CP: 6-21 SCH,

TC: 21-45 SCH, GC 12-21 SCH)

12

c.   New courses and new course descriptions

None. Certificate uses existing courses.

d.  Program goals and objectives:

*Program Goals:*

Provide internationally competitive and industry recognized education to meet emerging needs of engineering, engineering management, and operations management professionals.

Prepare students to assume leadership roles in industry and government employing the 10 operations management decisions.

*Program Objectives:*

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.

Be able to plan and lead projects to improve operations.

Use Lean Six Sigma to translate customer feedback and enterprise goals into operations management improvements.

Concisely communicate to decision makers.

e.   Expected student learning outcomes:

Develop broad competencies in the 10 operations management decisions.

Demonstrate skills to lead operations management projects to provide new or

 improved operations to deliver products and services.

Apply problem-solving using Lean Six Sigma to improve operations management

processes.

f.   Documentation that program meets employer needs.

Professional organization surveys and market research indicating employer desires of skills. Meetings with local industry indicate operations management as a skill they utilize that is consistently lacking and needed. Discussions with employers and students during career fairs and conferences reinforces the need for operations management proficiency.

g.   Student demand (projected enrollment) for proposed program.

Based on student surveys and feedback from students, from site coordinators/advisors, we anticipate a first-year enrollment of 20. This method was a very good predictor of enrollments for previous certificates.

h.   Program approval letter from licensure/certification entity, if required

 N/A

j.   Scheduled program review date (within 10 years of program).

2028-2029