Program Change Request

New Program Proposal

Date Submitted: 12/12/17 9:55 am

Viewing: **OMLSGC : Lean Six Sigma, Graduate Certificate**

Last edit: 09/11/18 12:15 pm

Changes proposed by: richardh

Submitter: 55521	User ID:	richardh	Phone:

Program Status — Active

Academic Level — Graduate

Type of proposal — Certificate

Select a reason for this new program — Adding New Graduate Certificate (12-21semester hours)--(LON 10)

Effective Catalog Year — Fall 2019

College/School Code
   College of Engineering(ENGR)

Department Code
   Department of Industrial Engineering(INEG)

Program Code — OMLSGC

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. 09/26/17 10:08 am Norman Dennis (ndennis): Rollback to Initiator
2. 09/26/17 10:43 am Norman Dennis (ndennis): Approved for ENGR Dean Initial
3. 09/26/17 11:48 am Patricia Koski (pkoski): Approved for GRAD Dean Initial
4. 09/26/17 1:19 pm Terry Martin (tmartin): Approved for Provost Initial
5. 10/06/17 1:23 pm Alice Griffin (agriffin): Approved for Director of Program Assessment and Review
6. 10/10/17 1:01 pm Lisa Kulczak (lkulcza): Approved for Registrar Initial
7. 10/11/17 10:08 am Gary Gunderman (ggunderm): Approved for Institutional Research
8. 10/11/17 12:59 pm Ed Pohl (epohl):

Approved for INEG Chair

9. 11/07/17 2:07 pm Manuel Rossetti (rossetti): Approved for ENGR Curriculum Committee

10. 11/08/17 9:01 am Norman Dennis (ndennis): Approved for ENGR Faculty

11. 11/08/17 9:11 am Norman Dennis (ndennis): Approved for ENGR Dean

12. 11/10/17 4:58 pm Kiersten Bible (kbible): Approved for Global Campus

13. 11/13/17 2:09 pm Terry Martin (tmartin): Rollback to Global Campus for Provost Review

14. 11/13/17 3:44 pm Kiersten Bible (kbible): Rollback to Initiator

15. 12/13/17 3:23 pm Norman Dennis (ndennis): Approved for ENGR Dean Initial

16. 12/13/17 3:45 pm Patricia Koski (pkoski): Approved for GRAD Dean Initial

17. 12/21/17 8:46 am Terry Martin (tmartin): Approved for Provost Initial

18. 12/21/17 10:22 am Alice Griffin (agriffin): Approved for Director of Program Assessment and Review

19. 06/27/18 9:28 am Karen Turner (kjvestal): Approved for Registrar Initial

20. 06/27/18 9:29 am Gary Gunderman (ggunderm): Approved for Institutional Research

21. 06/27/18 11:39 am Ed Pohl (epohl): Approved for INEG Chair

22. 08/28/18 1:21 pm Manuel Rossetti (rossetti): Approved for ENGR Curriculum Committee

23. 08/28/18 1:24 pm Norman Dennis (ndennis): Approved for ENGR Faculty

24. 08/29/18 8:38 am Norman Dennis (ndennis): Approved for ENGR Dean

25. 09/07/18 5:47 pm
Miran Kang (kang):
Approved for Global
Campus

26. 09/10/18 10:05 am
Terry Martin
(tmartin): Approved
for Provost Review

15.1501 - Engineering/Industrial Management.

Program Title

Lean Six Sigma, Graduate Certificate

Program Delivery
Method

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
Little Rock AFB	1490 Vandenberg Blvd, rm 107, Jacksonville, AR 72099	195
North Central Florida - Hurlburt AFB	221 Lukasik Ave,. Hurlburt Field, FL 32544	729

Location Name	Address	Distance from Main Site
Naval Air Station, Millington, Tennessee	5750 Essex Street, Milligton, TN 38504	335

Reason for Offering
Program Off Campus

Current OMGT off campus locations at Little Rock AFB, Hurlburt AFB, FL, Millington Naval Air Station.

Fifty percent of the
credits required will
be offered

Off-campus location

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

Survey results and trend analysis of online enrollments show students are increasingly interested in online enrollments. The MSOM program has over 85% online enrollments and growing. Student demand for flexibility led to online emphasis on all course offerings. See attached viability justification.

Maximum Class Size　　35
for Web-based
Courses

Course delivery
mode

Method(s)
Online

Class interaction mode

Method(s):
Electronic Bulletin Boards
E-mail
Chat
Blog
Other

Specify Other
Interaction Methods

Some video synchronous activity may be used as an instruction mode.

Percent Online

100% with No Required Campus Component

Provide a List of
Services Supplied by
Consortia Partners or
Outsourced
Organization

None

Estimate Costs of the Program over the First 3 Years	None- courses are contained within the MSOM elective courses and stand alone with or without the certiicate.

List Courses Taught
by Adjunct Faculty

Upload
Memorandum of
Understanding Forms
(if required)

Program Requirements and Description

Requirements

Program admission requires 3.0 GPA on the last 60 hours of undergraduate coursework. Students must complete coursework with with at least a 3.0 GPA.

OMGT 5373 Quality Management

OMGT 5473 Lean Six Sigma

OMGT 5493 Advanced Lean Six Sigma

 OMGT 5783 Project Management for Operations Managers

Program Costs

  There are no additional costs for this program. It is completely funded by tuition and decisions to keep or cancel each OMGT elective course are made based on the course revenue exceeding cost. The courses are developed for OMGT, MSE and MSEM use regardless of certificate needs and stand alone. A budget is attached to estimate cost of administration and stand up cost and cost of instruction.

Library Resources

  Library resources are the same as those required for the current OMGT elective courses.

Instructional

Facilities

  All facilities and equipment associate with the OMGT program will be used for the Lean Six Sigma Certificate Program.

Faculty Resources

  Tenure and non-tenure track faculty teaching current OMGT courses will teach the required certificate courses a normal course of OMGT elective course requirements. The addition of Lean Six Sigma Certificate students will have no effect on scheduling and require no additional faculty.

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   20
Demand for Program

Scheduled Program   2019-2020
Review Date

Program Goals and
Objectives

Program Goals and Objectives
Provide internationally competitive and industry recognized project lean six sigma graduate education to meet emerging needs of operations management professionals.
Prepare operations management students to assume leadership roles in industry and government employ lean six sigma principles to develop process improvement strategy.
Translate customer feedback and enterprise goals into opportunities for improvement.
Create and sustain a culture that focuses on delivery of value by utilizing continuous process improvement and variance reduction strategies.
Select and apply the tool and analysis methods commonly used as part of the Lean Six Sigma DMAIC process.
Concisely communicate plans and results of studies to decision
Explain and apply the project selection process.

Learning Outcomes

Learning Outcomes
Develop lean six sigma competencies in the DMAIC process and team roles.
Demonstrate skills to manage a Six Sigma improvement project.
Apply problem-solving skills to Lean Six Sigma initiatives.
Assess and apply the correct Lean Six Sigma process improvement technique in real-world scenarios.

Description and Justification for this request

Description of request	Justification for request

Description of request	Justification for request
Demand for new Lean Six Sigma skills. The graduate certificate in Lean Six Sigma was developed to meet industry and employee desires, including a program to meet American Society for Quality Body of Knowledge requirements.	This request establishes a certificate to meet Lean Six Sigma Body of Knowledge requirements in the American Society of Quality driven by employer and student demand. The Master of Science in in Operations Management (MSOM or OMGT) has focused on lean six sigma, quality management and process improvement as one of as one of the 10 operations management strategic decisions. During marketing surveys, current and potential students indicated a desire for graduate certificates focusing in project management, lean six sigma/quality, homeland security operations, risk management and healthcare logistics. These have been informal focus areas students have followed since the inception of the MSOM program. Surveys from students and contact with employers indicate more value in focused areas that follow the industry-accepted Body of Knowledge (BOK) for each of these areas. The American Society for Quality (ASQ) BOK was followed in redesigning the basic course and adding an advanced course for Lean Six Sigma. The Arkansas Economic Development Commission workforce training initiatives recommend this standard to Arkansas businesses. This initiative was followed in the first MSOM certificate in Project Management which has resulted in more than 20 new students in the first term being offered; this certificate continues that strategy to provide industry accepted BOK education to meet student indicated interest.

Upload attachments

OMLSGC - Grad Certificate - Syllabi.pdf

OMLSGC - Grad Certificate - Budget.xlsx

OMLSGC - Grad Certificate - Supporting Documents.docx

OMLSGC - Grad Certificate - Ltr of Notification.docx

Reviewer Comments

Norman Dennis (ndennis) (09/26/17 10:08 am): Rollback: You cannot advertise a lower GPA requirement than the grad school allows. The grad school requires a minimum 3.0 on the last 60 hours of undergraduate work. Suggest you use that language. The justification box is always a two part construct. a. What are you doing? Even though it may be self evident you have to restate/summarize in this box. b. Why are you doing it? You have done this very well. Are the two new OMGT course in the system now? If not put them in the system before resubmitting this certificate request.

Alice Griffin (agriffin) (10/04/17 2:48 pm): Changed degree from advanced certificate to graduate certificate.

Alice Griffin (agriffin) (10/04/17 2:51 pm): Changed scheduled program review date to match Operations Management schedule.

Alice Griffin (agriffin) (10/04/17 3:09 pm): Adjusted LON for formatting and inserted approval dates. Renamed document to match naming convention used for BOT documentation.

Alice Griffin (agriffin) (10/06/17 1:14 pm): Changed program requirement information to include course offerings. Removed semester-by-semester information with permission from submitter.

Alice Griffin (agriffin) (10/06/17 1:22 pm): Added Graduate Certificate to program title. Also renamed syllabi document to match naming convention for BOT materials.

Lisa Kulczak (lkulcza) (10/10/17 1:00 pm): OMGT courses "not found" in approval process for fall 2018.

Kiersten Bible (kbible) (11/10/17 4:57 pm): Global Campus's approval of this proposal, which reached us November 8, is subject to two caveats. First, Global Campus was not involved in the planning process for this new program proposal. We therefore have not had the opportunity to evaluate the market for the proposed program or to assess its financial viability in the usual course. There are multiple online Lean Six Sigma certification training courses on the market, many of which are non-credit. This program, because it can be taken by students in the OMGT program, may have a ready market. Also, because a student may also take it as a free-standing program, it may help boost OMGT enrollment. Second, the four courses comprised by the proposed program were, or are in the process of being, designed or redesigned by Engineering itself. Global Campus adheres to the Quality Matters® rubric for asynchronous online courses. Our preliminary look at the courses indicates that they will meet standards and we are currently conducting a more thorough review.

Terry Martin (tmartin) (11/13/17 2:09 pm): Rollback: Rolled back to Global Campus per the request of Global Campus.

Kiersten Bible (kbible) (11/13/17 3:44 pm): Rollback: As per discussion between Dr. Ham and Dr. Judges, the proposal should describe in greater detail the market research and analysis OMGT department did to assess the proposed certificate's viability. Also, please note in the revised proposal that the OMGT department will consult with Global Campus to confirm that existing and future courses will meet quality standards for course design. Finally,the proposal would be strengthened by inclusion of a pro forma budget analysis. Please feel free to contact Dr. Judges at Global Campus for any assistance.

Alice Griffin (agriffin) (12/21/17 10:20 am): Changed effective catalog year to fall 2019 (it is too late to complete approval process in time for fall 2018). Updated LON with revised approval dates. Also inserted revisions from ADHE, which did not impact any information from the department.

Alice Griffin (agriffin) (12/21/17 10:21 am): Second attempt to upload revised LON.

Alice Griffin (agriffin) (09/11/18 12:15 pm): Updated approval dates and titles of documents to match naming convention for BOT materials.

Key: 648