

# Program Change Request

## New Program Proposal

Date Submitted: 09/23/21 10:46 am

Viewing: **OMAMGM : Advanced Air Mobility  
Autonomous Operations Graduate**

## MicroCertificate

Last edit: 01/18/22 11:57 am

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	OMAMGM		
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. ENGD 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. 10/04/21 10:29 am  
Kevin Hall (kdhall):  
Approved for ENGR  
Dean Initial
2. 10/04/21 1:34 pm  
Jim Gigantino  
(jgiganti): Approved

- for GRAD Dean  
Initial
3. 10/04/21 4:07 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Curriculum Review  
and Program  
Assessment
  4. 10/04/21 4:34 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
  5. 10/04/21 4:35 pm  
Doug Miles  
(dmiles): Approved  
for Institutional  
Research
  6. 12/17/21 2:01 pm  
Kevin Hall (kdhall):  
Approved for ENGD  
Chair
  7. 01/11/22 9:31 am  
Manuel Rossetti  
(rossetti): Approved  
for ENGR  
Curriculum  
Committee
  8. 01/14/22 2:52 pm  
Kevin Hall (kdhall):  
Approved for ENGR  
Faculty
  9. 01/14/22 3:06 pm  
Kevin Hall (kdhall):  
Approved for ENGR  
Dean
  10. 01/14/22 3:07 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus

11. 01/14/22 3:32 pm  
Ketevan  
Mamiseishvili  
(kmamisei):  
Approved for  
Provost Review

15.1501 - Engineering/Industrial Management.

Program Title

Advanced Air Mobility Autonomous Operations Graduate MicroCertificate

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 6  
hours needed to  
complete the  
program?

## Off Campus Information

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Off Campus

Location(s)

Location Name	Address	Distance from Main Site
Walton College at 2nd and Main	119 S Main Street, Little Rock, Arkansas 72201	186
North Central Florida - Hurlburt AFB	221 Lukas Av., Hurlburt Field, Florida. 32544	729
Naval Air Station Millington, Millington, Tennessee	5750 Essex Street, Millington, Tennessee 38504	335

Reason for Offering

Program Off Campus

Course to support Advanced Air Mobility initiative. Market research, student feedback, and industry input indicates a need for updated skills in autonomous and AI environments. Recent changes in rapid technological development, pandemic response, and new regulatory climates accelerated demand for new skills

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?

Yes

Upload

Memorandum of

Understanding Forms

(if required)

## On-line/Web-based Information

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Reason for offering

Web-based Program

Supporting Advanced Air Mobility initiative for research and workforce development.

Maximum Class Size 50

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 available in current classes. Includes, but is not limited to video, live lecture, 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**

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### Requirements

Admission Requirements: The Advanced Air Mobility Autonomous Operations Graduate MicroCertificate credential is open to all backgrounds in any discipline. Course pre-requisites or departmental consent for some courses may be required.

Students must apply for the Advanced Air Mobility Autonomous Operations Graduate MicroCertificate credential and be admitted to the Graduate School; the GRE requirement is waived for the Advanced Air Mobility Autonomous Operations Graduate MicroCertificate.

Students who have earned a GPA of 3.5 or better upon completion of the Advanced Air Mobility Autonomous Operations Graduate MicroCertificate and subsequently apply to a Graduate Certificate in Homeland Security, Project Management, Lean Six Sigma, Operations Management or Master of Science in Operations Management may be admitted without the GRE.

Requirements for the Advanced Air Mobility Autonomous Operations Graduate MicroCertificate (6 hours):

[OMGT 5903](#)

Operations Management of

OMGT 5913 ADVANCED AIR MOBILITY AND AUTONOMOUS OPERATIONS	Course OMGT 5913 ADVANCED AIR MOBILITY AND AUTONOMOUS OPERATIONS Not Found	3
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Total Hours 6

To receive the Advanced Air Mobility Autonomous Operations Graduate MicroCertificate, students must complete coursework with a grade of A or B in both courses.

**Program Costs**

Development and delivery cost provided by in-load faculty; shared software and equipment cost with other current courses. Costs less than \$1000 for miscellaneous costs such as instructor materials.

**Library Resources**

No additional library resources required

**Instructional Facilities**

No additional instructional facilities required.No additional faculty required

**Faculty Resources**

No additional faculty 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**

<b>Program Goals and Objectives</b>
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### Program Goals and Objectives

#### Program Goals:

1. Provide students current skills to support Advanced Air Mobility operations and research.
2. Prepare students to lead AAM teams.

#### Program Objectives:

1. Identify AAM challenges and create solutions for effective operations.
2. Understand the process to obtain waivers for non-standard operations and safely integrate into operations.

#### Learning Outcomes

### Learning Outcomes

#### Expected Student Learning Outcomes:

1. Apply competencies obtained in FAA Remote Pilot certification to perform complex autonomous missions.
2. Create and track effectiveness of complex mission plans.
3. Analyze data and build effective models to meet standard industry use cases.

#### Description and Justification for this request

Description of request	Justification for request
Adding new Graduate MicroCertificate in Advanced Air Mobility Autonomous Operations ; demand based on industry and student feedback and market research.	Market research and student feedback point toward a growing need for flexibility in program offerings based on student season of life, travel schedules, family requirements, and economic situation. Supports the University Advanced Air Mobility partnership for research and workforce development.

#### Upload attachments

#### Reviewer Comments

**Kevin Hall (kdhall) (10/04/21 10:28 am):** Edited "Description of Request" to indicate the correct MicroCertificate to be added.

**Alice Griffin (agriffin) (10/04/21 3:52 pm):** Revised course title of OMGT 5913 to match course title submitted in Course Inventory Management.

**Alice Griffin (agriffin) (10/04/21 4:07 pm):** Fixed typo in description and added "Graduate" to MicroCertificate.

**Lisa Kulczak (lkulcza) (10/04/21 4:34 pm):** Spring 2022 effective date pending completion of approval process in a timely manner.

**Alice Griffin (agriffin) (01/18/22 9:47 am):** Changed effective date from spring 2022 to summer 2022. It is too late for the spring semester to complete approval.

**Alice Griffin (agriffin) (01/18/22 9:49 am):** Changed Department of Engineering Dean to Department of Industrial Engineering with input from submitter.

**Alice Griffin (agriffin) (01/18/22 9:58 am):** Pending course, OMGT 5913 has reached the Graduate Council.

**Alice Griffin (agriffin) (01/18/22 11:57 am):** Changed Leading Operational Change Graduate MicroCertificate to Advanced Air Mobility Autonomous Operations Graduate MicroCertificate in the second paragraph of the program requirements with permission from the submitter.