New Program Proposal

Date Submitted: 09/08/23 3:20 pm

Viewing: REGRGM: Regression Graduate

MicroCertificate

Last edit: 07/17/24 8:49 pm

Changes proposed by: egbengts

Submitter: User ID: egbengts Phone:

479-575-5092

Program Status Active

Academic Level Graduate

Type of proposal MicroCertificate

Select a reason for Adding New Graduate MicroCertificate

this new program

Effective Catalog Year 01/05/2025

College/School Code

Graduate School and International Education (GRAD)

Department Code

Statistics and Analytics (STAN)

Program Code REGRGM

Degree Graduate MicroCertificate

CIP Code

In Workflow

- 1. GRAD Dean Initial
- 2. GRAD Dean Initial
- 3. Director of
 Curriculum Review
 and Program
 Assessment
- 4. Registrar Initial
- 5. Institutional Research
- 6. STAN Chair
- 7. AFLS Dean
- 8. EDUC Dean
- 9. ENGR Dean
- 10. ARSC Dean
- 11. WCOB Dean
- 12. GRAD Dean
- 13. Global Campus
- 14. Provost Review
- 15. Graduate Council

16. Faculty Senate

- 17. Provost Final
- 18. Registrar Final
- 19. Catalog Editor Final

Approval Path

- 1. 09/08/23 3:22 pm
 - Ed Bengtson
 - (egbengts):

Approved for GRAD

Dean Initial

2. 09/08/23 3:23 pm

Ed Bengtson

(egbengts):

Approved for GRAD

Dean Initial

3. 09/20/23 10:00 am

Lisa Kulczak

(Ikulcza): Rollback to GRAD Dean Initial for Director of Curriculum Review and Program Assessment

- 4. 09/20/23 2:47 pm
 Ed Bengtson
 (egbengts):
 Approved for GRAD
 Dean Initial
- 5. 10/03/23 6:47 pm
 Lisa Kulczak
 (lkulcza): Approved
 for Director of
 Curriculum Review
 and Program
 Assessment
- 6. 10/05/23 7:21 am
 Gina Daugherty
 (gdaugher):
 Approved for
 Registrar Initial
- 7. 10/05/23 1:01 pm
 Doug Miles
 (dmiles): Approved
 for Institutional
 Research
- 8. 10/25/24 4:48 pm
 Ed Bengtson
 (egbengts):
 Approved for STAN
 Chair
- 9. 10/25/24 5:04 pm Lona Robertson (Ijrobert): Approved for AFLS Dean
- 10. 10/27/24 9:21 am
 Matthew Ganio
 (msganio):

Approved for EDUC
Dean

- 11. 11/13/24 8:14 am
 Kevin Hall (kdhall):
 Approved for ENGR
 Dean
- 12. 11/13/24 8:24 am
 Christopher Schulte
 (cschulte):
 Approved for ARSC
 Dean
- 13. 11/13/24 8:26 am
 Alan Ellstrand
 (aellstra): Approved
 for WCOB Dean
- 14. 11/13/24 8:29 am
 Ed Bengtson
 (egbengts):
 Approved for GRAD
 Dean
- 15. 11/13/24 9:17 am
 Suzanne Kenner
 (skenner): Approved
 for Global Campus
- 16. 11/13/24 11:17 am
 Jim Gigantino
 (jgiganti): Approved
 for Provost Review
- 17. 11/23/24 7:07 am
 Ed Bengtson
 (egbengts):
 Approved for
 Graduate Council

27.9999 - Mathematics and Statistics, Other.

Program Title

Regression Graduate MicroCertificate

Program Delivery
Method
On Campus

Is this program interdisciplinary between two or more colleges or schools?

Walton College of Business (WCOB)

Yes

College(s)/School(s)

College/School Name
Bumpers College of Agricultural, Food, and Life Sciences (AFLS)
College of Education and Health Professions (EDUC)
College of Engineering (ENGR)
Fulbright College of Arts and Sciences (ARSC)

Do the proposed changes impact any specific course(s) from another college or school?

Yes

College(s)/School(s)

College/School Name
Bumpers College of Agricultural, Food, and Life Sciences (AFLS)
College of Education and Health Professions (EDUC)
College of Engineering (ENGR)
Fulbright College of Arts and Sciences (ARSC)
Walton College of Business (WCOB)

What are the total hours needed to complete the program?

6

Program Requirements and Description

Requirements

Students must maintain a grade of 'B' or better in all courses.

Students select one of the following regression analysis courses:		3
STAT 53133	Regression Analysis	
ESRM 64203	Multiple Regression Techniques for Education	
<u>INEG 53903</u>	Applied Regression Analysis for Engineers	
SOCI 53203	Applied Data Analysis	
AGST 57103	Applied Regression Analysis for Agricultural Sciences	

ECON 57403	Introduction to Econometrics	
Students select one	e of the following multivariant analysis courses:	3
STAT 53533	Methods of Multivariate Analysis	
PLSC 59403	Advanced Research Methods in Political Science	
ESRM 64503	Applied Multivariate Statistics	
AGST 5040V	Special Topics (3 credit hours)	
ISYS 57203	Advanced Multivariate Analysis	
ECON 66203	Econometrics II	
Total Hours		6

Program Costs

There are no additional program costs needed for this program.

Library Resources

There are no additional library resources needed for this program.

Instructional

Facilities

There are no additional instructional facilities needed for this program.

Faculty Resources

There are no additional faculty resources needed for this program.

List Existing Certificate or Degree Programs

that Support the Proposed Program

Program(s)

STANMS - Statistics and Analytics, Master of Science

Are Similar Programs available in the area?

No

Estimated Student 25

Demand for Program

Scheduled Program NA

Review Date

Program Goals and

Objectives

Program Goals and Objectives

- 1. To provide students with the fundamental statistical framework necessary to use and understand applied data science in the workplace or in further study.
- 2. To provide and foster knowledge, practices and skills common to traditional first year graduate level programs in Statistics, Business Analytics, Operations Analytics, Computational Analytics, Quantitative Social Sciences, and Educational Statistics and Psychometrics.
- 3. To provide current practitioners a thoughtful and tested curricula to extend their skills and knowledge into data science.

Learning Outcomes

Learning Outcomes

- 1. Thorough knowledge of linear regression modeling and analysis.
- 2. Proficiency with regression in the context of many possibly collinear variables.
- 3. Capability with software tools enabling general purpose statistical analysis.

Description and Justification for this request

Description of request	Justification for request
To establish a graduate micro certificate focused on the acquisition of knowledge and skill needed for fundamental	This graduate micro certificate will assist in filling the void left by the now inactive STAN graduate
understanding and use of linear regression and analysis.	certificate. The certificate is designed to allow for
	introductory knowledge acquisition that can lead to potential recruitment of students for the STAN
	MS degree.

Upload attachments

Reviewer Comments

Lisa Kulczak (Ikulcza) (09/20/23 10:00 am): Rollback: Per conversation with the dean. **Lisa Kulczak (Ikulcza) (10/03/23 6:41 pm):** Adjusted program code to reflect established convention (GM); adjusted requirements course list to sum total hours needed for the MicroCertificate.

Lisa Kulczak (Ikulcza) (10/03/23 6:45 pm): Split out Program Goals into three separate entries.

Lisa Kulczak (Ikulcza) (10/03/23 6:46 pm): ATTENTION REGISTRAR: Please remove Undergraduate Council from the workflow.

Gina Daugherty (gdaugher) (10/05/23 7:21 am): Removed Undergraduate Council from workflow.

Lisa Kulczak (Ikulcza) (07/17/24 8:49 pm): Adjusted effective date from fall 2024 to spring 2025; the proposal will not complete the approval process in time for fall 2024.