

Date Submitted: 09/28/21 8:04 am

Viewing: **STANMS : Statistics and Analytics,****Master of Science**

Last approved: 10/06/20 2:39 pm

Last edit: 09/30/21 1:38 pm

Changes proposed by: jgiganti

Catalog Pages Using
this Program[Statistics and Analytics \(STAN\)](#)Submitter: User ID: **jgiganti** ~~lkulcza~~ Phone:
575-7332 7456

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours,
changing admission/graduation requirements, adding/changing Focused Study or
Track)

Are you adding a concentration?

No Yes

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2022

College/School Code

Graduate School and International Education (GRAD)

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. ARSC Dean
9. EDUC Dean
10. ENGR Dean
11. GRAD Dean
12. WCOB Dean
13. Global Campus
14. Provost Review
15. University Course and Program Committee
16. Graduate Council
17. Faculty Senate
18. Provost Final
19. Registrar Final
20. Catalog Editor Final

Approval Path

1. 09/28/21 8:17 am
Jim Gigantino
(jgiganti): Approved for GRAD Dean Initial
2. 09/28/21 8:17 am
Jim Gigantino
(jgiganti): Approved

Department Code

Statistics and Analytics (STAN) ~~Department of Graduate Dean (GRSD)~~

Program Code

STANMS

Degree

Master of Science

CIP Code

for GRAD Dean

Initial

3. 09/29/21 5:34 pm
Alice Griffin
(agriffin): Approved
for Director of
Curriculum Review
and Program
Assessment
4. 09/30/21 2:28 pm
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
5. 09/30/21 3:05 pm
Doug Miles
(dmiles): Approved
for Institutional
Research
6. 09/30/21 3:13 pm
Jim Gigantino
(jgiganti): Approved
for STAN Chair
7. 09/30/21 3:47 pm
Lona Robertson
(ljrobert): Approved
for AFLS Dean
8. 09/30/21 4:33 pm
Jeannie Hulen
(jhulen): Approved
for ARSC Dean
9. 09/30/21 5:02 pm
Matthew Ganio
(msganio):
Approved for EDUC
Dean
10. 10/04/21 10:39 am
Kevin Hall (kdhall):
Approved for ENGR
Dean

- 11. 10/04/21 1:28 pm
Jim Gigantino
(jgiganti): Approved
for GRAD Dean
- 12. 10/04/21 1:46 pm
Alan Ellstrand
(aellstra): Approved
for WCOB Dean
- 13. 10/04/21 2:03 pm
Suzanne Kenner
(skenner): Approved
for Global Campus
- 14. 10/04/21 3:23 pm
Ketevan
Mamiseishvili
(kmamisei):
Approved for
Provost Review

History

- 1. May 16, 2016 by Pat Koski (pkoski)
- 2. Mar 29, 2019 by Charlie Alison (calison)
- 3. Oct 6, 2020 by Lisa Kulczak (lkulcza)

27.0501 - Statistics, General.

Program Title

Statistics and Analytics, Master of Science

Program Delivery

Method

On Campus

~~Online/Web-based~~

Is this program interdisciplinary?

Yes

College(s)/School(s)

College/School Name

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

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 30-33

Program Requirements and Description

Requirements

Requirements for the Master of Science (M.S.) Degree

Requirements for the master's degree are fulfilled through one of seven concentrations. Students should also be aware of Graduate School requirements with regard to [master's degrees](#).

Are Similar Programs available in the area?

No

Estimated Student Demand for Program 24

Scheduled Program Review Date 2021

Program Goals and Objectives

Program Goals and Objectives

Program Goals and Objectives

1. To provide and foster knowledge, practices and skills common to traditional first year graduate level programs in Statistics, Biological Analytics, Business Analytics, Operations Analytics, Computational Analytics, Quantitative Social Sciences, and Educational Statistics and Psychometrics.
2. To provide and foster knowledge, practices and skills from traditional advanced graduate level programs in one of the above disciplines.
3. To provide tools and experiences enabling our graduates to communicate effectively and work with practitioners in their field.
4. To provide highly skilled practitioners to industry and academic leadership positions in society.

Learning Outcomes

Learning Outcomes

1. Fundamental language of statistics (probability distributions, mean, variance, covariance, hypothesis testing, etc.)
2. Thorough knowledge of linear regression modeling and analysis.
3. Proficiency with regression in the context of many possibly collinear variables.
4. Thorough knowledge of the theory and design of statistical experiments.
5. Capability with software tools enabling general purpose statistical analysis.
6. Skill with programming tools and languages appropriate for one or more of the disciplines listed in Program Goals 1.
7. Ability to prepare and present statistical analyses.
8. Ability to communicate and collaborate effectively in both discipline specific and interdisciplinary team projects.

Description and justification of the request

Description of specific change	Justification for this change
Eliminating online delivery	This program was initially added as having online delivery but that was in error. This program has never been offered online.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (09/29/21 5:33 pm): Normally, this request would require off-campus approval. However, ADHE does not have the program listed for distance delivery. Therefore, the

request may be approved on campus.

Alice Griffin (agriffin) (09/29/21 5:34 pm): ATTENTION Registrar: Please change the response for adding a concentration to no. CIM blocks have already been created for the concentrations. Thank you.

Lisa Kulczak (lkulcza) (09/30/21 1:22 pm): Adjusted response to concentration question-- concentrations already exist.

Lisa Kulczak (lkulcza) (09/30/21 1:38 pm): Adjusted department to reflect the STAN Program instead of GRSD Dean. Workflow amended for correct department chair.

Key: 252