

Date Submitted: 11/19/20 6:06 pm

Viewing: **EDSTMC : Educational Statistics and Research Methods Post Master's Certificate**

Last edit: 11/20/20 9:45 am

Changes proposed by: kmamisei

Catalog Pages Using
this Program

[Educational Statistics and Research Methods \(ESRM\)](#)

Submitter: **5-4924** User ID: **hevel** Phone:

Program Status **Active**

Academic Level Graduate

Type of proposal **Certificate**

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)

Effective Catalog Year Fall 2021

College/School Code
College of Education and Health Professions (EDUC)

Department Code
Department of Rehabilitation, Human Resources, and Communication Disorders (RHRC)

Program Code EDSTMC

Degree Post Master's Certificate

CIP Code

In Workflow

1. EDUC Dean Initial
2. GRAD Dean Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. Institutional Research
6. RHRC Chair
7. EDUC Curriculum Committee
8. EDUC Dean
9. Global Campus
10. Provost Review
11. University Course and Program Committee
12. Graduate Committee
13. Faculty Senate
14. Provost Final
15. Provost's Office-- Notification of Approval
16. Registrar Final
17. Catalog Editor Final

Approval Path

1. 11/19/20 6:09 pm
Ketevan Mamiseishvili (kmamisei):
Approved for EDUC Dean Initial
2. 11/19/20 6:14 pm
Pat Koski (pkoski):

- Approved for GRAD
Dean Initial
3. 11/20/20 9:45 am
Alice Griffin
(agriffin): Approved
for Director of
Program
Assessment and
Review
 4. 11/30/20 1:02 pm
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
 5. 11/30/20 1:47 pm
Gary Gunderman
(ggunderm):
Approved for
Institutional
Research
 6. 11/30/20 3:39 pm
Michael Hevel
(hevel): Approved
for RHRC Chair
 7. 12/02/20 2:41 pm
Ketevan
Mamiseishvili
(kmamisei):
Approved for EDUC
Curriculum
Committee
 8. 12/02/20 2:42 pm
Ketevan
Mamiseishvili
(kmamisei):
Approved for EDUC
Dean
 9. 12/02/20 4:16 pm
Suzanne Kenner
(skenner): Approved
for Global Campus

10. 12/03/20 7:51 am
 Terry Martin
 (tmartin): Approved
 for Provost Review

13.0603 - Educational Statistics and Research Methods.

Program Title

Educational Statistics and Research Methods Post Master's Certificate

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

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

No

What are the total **15**
 hours needed to
 complete the
 program?

Program Requirements and Description

Requirements

Graduate Certificate in Educational Statistics and Research Methods:

The graduate certificate in Educational Statistics and Research Methods recognizes students who complete a core of courses focused on developing theoretical, application, and interpretative aspects of statistical techniques and research methods. Graduate students completing this certificate will also develop comprehensive programming and data management skills necessary for today's academic researcher.

Program Of Study

ESRM 6403	Educational Statistics and Data Processing	3
ESRM 6413	Experimental Design in Education	3
ESRM 6423	Multiple Regression Techniques for Education	3
Select two of the following:		6
ESRM 6453	Applied Multivariate Statistics	
Select one of the following:		3
ESRM 5653	Educational Assessment	
ESRM 6653	Measurement and Evaluation	

Select one of the following:

3

<u>ESRM 6513</u>	Hierarchical Linear Modeling
<u>ESRM 6523</u>	Structural Equation Modeling
<u>ESRM 6553</u>	Advanced Multivariate Statistics
<u>ESRM 6533</u>	Qualitative Research
<u>ESRM 6543</u>	Advanced Qualitative Research
<u>ESRM 6753</u>	Item Response Theory
<u>ESRM 699V</u>	Seminar

Total Hours

15

Are Similar Programs available in the area?

No

Estimated Student **8-10 students**

Demand for Program

Scheduled Program **2022-2023**

Review Date

Program Goals and

Objectives

Program Goals and Objectives

Provide current and prospective graduate students an opportunity to demonstrate advanced learning in education statistics and research methods

Provide future faculty members and other academics with the knowledge to design appropriate and effective research studies and evaluation/assessment projects

Develop increased numbers of individuals trained to provide leaders and organizations with data-based decision making

Learning Outcomes

Learning Outcomes

Understand theory and application of frequency distributions, graphical methods, central tendency, variability, simple regression and correlation indexes, chi-square, sampling, and parameter estimation, and hypothesis testing.

Understand the analysis of variance techniques related to experimental design in educational situations

Understand multiple regression procedures for analyzing data in educational situations

Demonstrate advanced learning in educational statistics and research methods from two elective courses

Create well-designed research studies and evaluation/assessment projects

Learning Outcomes

Use computers and software to organize and analyze data

Assist leaders and organizations with the interpretation of data and the use of data to guide decision-making

Description and justification of the request

Description of specific change	Justification for this change
<p>We are reducing the number of required hours from 18 to 15 credit hours that will include 9 required hours and 6 elective hours. Originally, the program required 12 credit hours which was reduced to 9 credit hours by moving applied multivariate statistics as an elective option. We are also expanding elective selections.</p>	<p>The changes are proposed to balance the content knowledge the students need and the course offerings. All core courses are offered every year. Specifically, ESRM 6403, 6413, and 6533 are offered every semester now. At least one course from the elective list is offered every semester. This will allow students to complete the certificate in a timely manner. The changes will also allow more flexibility in the program plan and accommodate students who are interested in qualitative methods.</p>

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (11/20/20 9:45 am): ATTENTION: Because of the change in total hours, this request will require campus approval.

Key: 237