

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

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

Last edit: 01/04/21 11:49 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
11. 12/18/20 4:12 pm  
Alice Griffin  
(agriffin): Rollback  
to EDUC Curriculum  
Committee for  
University Course  
and Program  
Committee
12. 01/06/21 2:14 pm  
Ketevan  
Mamiseishvili  
(kmamisei):  
Approved for EDUC  
Curriculum  
Committee
13. 01/06/21 2:16 pm  
Ketevan  
Mamiseishvili  
(kmamisei):  
Approved for EDUC  
Dean
14. 01/06/21 2:49 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
15. 01/06/21 3:53 pm  
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 hours needed to complete the program? **15**

## Program Requirements and Description

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### 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.

**Admission to the Certificate Program: In addition to meeting University requirements for admission to the Graduate School, applicants must have earned a master's degree with a minimum 3.00 cumulative GPA on a 4.00 scale or be currently enrolled in a doctoral program at the University of Arkansas. Although there is no minimum GRE score required for the certificate admission, successful applicants admitted to this certificate typically have GRE scores of above 40th percentile on both Verbal and Quantitative Reasoning sections and 30th percentile on Analytic Writing section. If you believe that your test scores are not valid indicators of your ability, you are welcome to explain your concerns in a statement of purpose. We encourage you to contact the Educational Statistics and Research Methods program coordinator with questions.**

**Certificate Requirements: Completion of a required list of courses for a certificate with a grade-point average of 3.40.**

#### Program Of Study

<a href="#">ESRM 6403</a>	Educational Statistics and Data Processing	3
<a href="#">ESRM 6413</a>	Experimental Design in Education	3
<a href="#">ESRM 6423</a>	Multiple Regression Techniques for Education	3
<b>Select two of the following:</b>		<b>6</b>
<a href="#">ESRM 6453</a>	Applied Multivariate Statistics	
<b>Select one of the following:</b>		<b>3</b>
<a href="#">ESRM 5653</a>	<b>Educational Assessment</b>	
<a href="#">ESRM 6653</a>	Measurement and Evaluation	
<b>Select one of the following:</b>		<b>3</b>
<a href="#">ESRM 6513</a>	Hierarchical Linear Modeling	

<a href="#"><u>ESRM 6523</u></a>	Structural Equation Modeling
<a href="#"><u>ESRM 6553</u></a>	Advanced Multivariate Statistics
<a href="#"><u>ESRM 6533</u></a>	<b>Qualitative Research</b>
<a href="#"><u>ESRM 6543</u></a>	<b>Advanced Qualitative Research</b>
<a href="#"><u>ESRM 6753</u></a>	<b>Item Response Theory</b>
<a href="#"><u>ESRM 699V</u></a>	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**

**Use computers and software to organize and analyze data**

### Learning Outcomes

**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>Admission requirements are moved from the Overview page to this CIM page. Required GPA for admission is changed from 3.25 to 3.00. Expectations for GRE are being clarified.</p> <p>Required GPA is changing from 3.5 to 3.4.</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> <p>3.4 GPA will allow students to complete the program with 2 As and 3 Bs instead of the original 3.5 GPA that required students to earn 3 As and 2Bs.</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.

**Alice Griffin (agriffin) (12/18/20 4:12 pm):** Rollback: UCPC tabled the request so the department could adjust the grade point average required for certificate and insert the language into the catalog copy.

Key: 237