CATALOG YEAR 2015-2016

COLLEGE/SCHOOL/SECTION: _____Education/Professional Programs_____

Course: Add: _X_   Delete: ___

(check all that apply) Change: Number ___ Title ___ SCH ___ Description ___ Prerequisite ___

Response Required: New course will be part of major X minor ___ as a required ___
or elective ___ course

Response Required: New course will, _X_ reinforce ___, or apply ___ concepts

Response Required: Grade Type _X_ Normal (A-F) _X_ CR/NC _____ P/F

If new, provide Course Prefix, Number, Title, **Measurable** Student Learning Outcomes, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current online catalog, provide change and attach text with changes in red and provide a brief justification.

EDGR 5325 *Introductory Statistics in Education*

This course introduces students to the basic tools of statistics. These tools are fundamental to understanding and conducting educational research. The course is designed to improve students' confidence in reading and interpreting quantitative research studies that include statistical analysis. It also provides opportunities for students to apply statistical tools to education and related social science data. The course covers descriptive statistics, inference from samples, hypothesis development and testing, and the basics of regression analysis. Prerequisite: EDGR 5320

Student Learning Outcomes
By the end of this course, students will be able to:
1. Describe and explain the basic concepts of sample and population
2. Apply concepts of probability
3. Formulate and test hypotheses in research models
4. Apply statistical models to real world research questions
5. Compute and interpret statistics in context and apply statistical findings to a population

Justification:
This course is intended for graduate students in the College of Education. This course serves three primary purposes: 1) It will provide students, many of whom are educational practitioners, the basic skills they need to analyze and interpret data within the school context, 2) It will improve students' ability to read and understand quantitative research studies, and 3) It will provide students with the skills necessary to conduct a quantitative research study, and may be particularly useful for students pursuing the Thesis track.

Program: Delete: ___ Add: ___ Change: ___   Attach new/changed Program of Study description and 4-year plan. If in current online catalog, provide change and attach text with
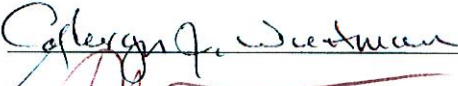
changes in red.

Program Learning Outcomes: Add: <u>X</u> Change: ___   Attach listing of program learning outcomes.

Minor: Add: ___ Delete: ___ Change: ___   Attach new/changed minor. If in current online catalog, provide change and attach text with changes in red.

College Introductory Pages: Add information: ___ Change information: ___
Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Other: Add information: ___ Change information: ___ Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Approvals:	Signature	Date
Chair Department Curriculum Committee	*[signature]*	2/16/15
Chair Department	*[signature]*	2/16/15
Chair College Curriculum Committee	*Jennifer M Coronado*	2/16/15
Dean	*[signature]*	2/16/15
Provost	*[signature]*	

06/2014