University Council

January 18, 2019

UNIVERSITY CURRICULUM COMMITTEE – 2018-2019
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Dear Colleagues:

The attached proposal from the College of Family and Consumer Sciences for the following name change will be an agenda item for the January 25, 2019, Full University Curriculum Committee meeting:

> From: Graduate Certificate in Quantitative Methods in Family Science
> To: Graduate Certificate in Quantitative Methods in Family and Social Sciences

Sincerely,

John Maerz, Chair
University Curriculum Committee

cc: Interim Provost Libby V. Morris
        Dr. Rahul Shrivastav

NAME CHANGE JUSTIFICATION FORM

School/College: College of Family and Consumer Sciences

Department: Human Development and Family Science

Current Certificate Name: Graduate Certificate in Quantitative Methods in Family Science

Proposed Certificate Name: Graduate Certificate in Quantitative Methods in Family and Social Sciences

Proposed Effective Date: Fall 2019

JUSTIFICATION:

We request that the name of the Graduate Certificate in Quantitative Methods in Family Science (QMFS) be changed to the Graduate Certificate in Quantitative Methods in Family and Social Sciences (QMFSS). The new name of the certificate does not change any content of the program. The reason for our request is two-fold. First, the term "Family and Social Sciences" more accurately covers a broad range of quantitative method and analytical techniques that are covered in this certificate program which include multilevel modeling, growth curve and mixture modeling, and dyadic and categorical data analysis. This program is already popular among graduate students from family and social science departments who need to acquire quantitative methodological skills for their research. Out of 32 current and completed certificate students, 40% were non-Human Development and Family Sciences graduate students (05 from Psychology, 04 from Sociology, 01 from Education, 01 from Social Work, 01 from Housing, and 01 from Communication). Second, this name change will help family and social science graduates by providing a certificate title that is easily understood by outside institutions because the new title more accurately represents the range of quantitative methodological skills they have. The requested change was unanimously supported by the Human Development and Family Science (HDFS) departmental graduate committee and by a full vote of the HDFS faculty.

Program of Study:
Required HDFS Courses (a total of 18 credits):

HDFS 7170: Introduction to Applied Statistics in Human Development and Family Science (3 hours) In this class, students will learn basic statistical concepts and procedures (e.g., central tendency, statistical significance, standard deviation, standard error, correlations, t-tests, cross tabulations, Analysis of Variance, and regression) and how to use the statistical program SPSS. (3 credit hours, offered every fall)

HDFS 8800: Quantitative Methods in Human Development and Family Science (3 hours) In this class, students will gain an understanding of issues associated with quantitative research methods that are essential to research on family and social research (3 credit hours, offered in spring).

HDFS 8730: Quantitative Analysis in Human Development and Family Science II (3 hours) In this class, students will learn techniques such as multiple regression, factor analysis, logistic regression and Structural Equation Modeling. They will also learn to use statistical packages such as Mplus. (3 credit hours, offered every spring)
Possible Substitution: SOCI 8630, STAT 6315 and 6220 as well as BIOS 7020

HDFS 8840: Multilevel and Growth Curve Modeling for Family and Social Sciences (3 hours, offered every other fall in odd years). The content for this seminar will be:

• Multilevel Modeling. Growth Curve Analysis for Family, Social & Behavioral Sciences

HDFS 8850: Categorical and Dyadic Data Analysis and Mixture Modeling for Family and Social Sciences (3 hours, offered every other fall in even years): The content for this seminar will be:
- Dyadic Data Analysis for Family Sciences: software packages.
- Categorical Data Analysis for Family Sciences Growth Mixture Modeling

HDFS 8860: Advanced Longitudinal Analysis for Family Social & Behavioral Science (3 hours, offered every spring):
The content for this seminar will be:
- Analysis of change – Various extensions of growth curves, including difference Score.
- Integration of different longitudinal analytical techniques (e.g., growth Survival)
- Higher order growth curves and growth Mixture Modeling
- Synchrony, concordance, convergence in dyadic data

(Topics of HDFS 8860 may change depending on the demand)

Approvals on File

Proposal: Proposal for the following name change:

> From: Graduate Certificate in Quantitative Methods in Family Science
> To: Graduate Certificate in Quantitative Methods in Family and Social Sciences

College: College of Family and Consumer Sciences

Department: Human Development and Family Science

Proposed Effective Term: Fall 2019

School/College:

- Department of Human Development and Family Sciences Department Head, Dr. Emilie Smith, 8/30/2018
- College of Family and Consumer Sciences Dean, Dr. Linda Kirk Fox, 9/12/2018

Graduate School:

- Graduate School Dean, Dr. Suzanne Barbour, 11/14/2018