MAS SYLLABUS
(Generic Outline)

Administrative Unit: Education Department

Course Prefix and Number: EDUC 500

Course Title: Research Design

Number of Credit Hours: 3 Lecture Hours: 3 Laboratory Hours: 0

Catalog Description: The study of educational research from a comprehensive perspective. Included are: techniques and concepts of social and behavioral research; writing in the APA format; ethical standards governing educational research; experiences in the use of internal and external critique methods; readings in curriculum, assessment, philosophical and psychological research products; experiences accessing and using archival and web-based data sources; evaluation of descriptive, true-experimental and quasi-experimental research designs; identification and use of appropriate parametric and nonparametric statistical analyses; computation and interpretation of effect size tests of practical significance; conducting primary and secondary source literature reviews; demonstration of research designing; and use of portfolio research. Prerequisite: Graduate standing. Offered each semester.

Prerequisite(s)/Corequisite(s): Graduate standing.


Course Objectives:
- To differentiate among methods, theories, principles, techniques and concepts of social and behavioral research.
- To identify the ethical standards of governing educational and psychological research.
- To critically evaluate curriculum, assessment, philosophical and psychological research products.
- To identify for use the appropriate parametric and nonparametric statistics.

Measurable Learning Outcomes:
- Apply methods, theories, principles, techniques and concepts of social and behavioral research.
- Write research proposals and findings in the APA format.
- Explain the practice of ethical standards of governing educational and psychological research.
- Access and use established databases and internet sources.
- Evaluate descriptive, true experimental and quasi-experimental research designs.
- Compute and interpret effect size tests of practical significance.
- Conduct secondary and primary source literature reviews.
- Design studies for empirical research, including problem stating, hypothesizing or posing research questions, sampling, data gathering and analysis, reporting of results, and discussion of results.
- Initiation of the MAT program portfolio, including program goals.

Topical Outline (major areas of coverage):

- Introduction to Research Design
- Initiating the Program Portfolio
- Conducting Literature Reviews and Writing in the APA format
- Research Designs and Data Collection Methods
- Data Analyses (Statistical and Practical Significance Tests)
- Critically Evaluating Research Products
- Research Proposals
- Comprehensive Course Examination

Recommended maximum class size for this course: 15

Library Resources: Online databases are available at http://www.ccis.edu/offices/library/resources.asp. You may access them from off-campus using your eServices login and password when prompted.

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Name ____________________________ Signature ____________________

Date: October 25, 2005

NOTE: The intention of the master syllabus is to provide an outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught or where it is taught. Faculty members teaching this course for Columbia College are expected to facilitate learning pursuant to the course objectives and cover the subjects listed in the topical outline. However, instructors are also encouraged to cover additional topics of interest so long as those topics are relevant to the course’s subject. The master syllabus is, therefore, prescriptive in nature but also allows for a diversity of individual approaches to course material.