

# Research (RSCH)

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**RSCH 7100. Research Methodology in Education. 3 Hours.**

This course provides a study of methods used to conduct educational and educationally-related research and includes critical analysis of selected research articles and research design. Emphasized is the ability to use research and research methods to improve practices in educational and educationally-related settings.

**RSCH 8000. Advanced Research Methodology. 3 Hours.**

This course provides a study of quantitative and qualitative methods used to conduct educational and educationally-related research, with a focus on the application of appropriate research models to the critique of published research and the preparation of research reports. Emphasized is the ability to use research and research methods in the development and completion of a research project in educational and educationally-related settings.

**RSCH 9800. Research Design and Foundations for Advanced Quantitative, Qualitative, and Mixed Methods Research. 3 Hours.**

Research design for quantitative, qualitative, and mixed methods research in education. Philosophical foundations, research techniques, and fundamentals of each approach are presented. Basic statistics are reviewed from descriptive to ANOVA. This course is a foundation for all other advanced courses in research.

**RSCH 9810. Program Evaluation in Learning Environments. 3 Hours.**

Prerequisite: RSCH 9800. An examination of theories across the program evaluation spectrum and their application in learning environment. The course addresses financial, ethical, and logistical issues related to planning and conducting robust, professional evaluations.

**RSCH 9820. Qualitative Research Methods in Education. 3 Hours.**

Prerequisite: RSCH 9800. Study and application of qualitative research methodology in educational settings.

**RSCH 9830. Advanced Qualitative Research Methods. 3 Hours.**

Prerequisite: RSCH 9820. An investigation of advanced approaches to the conceptualization, design, implementation, and representation of qualitative research and their application.

**RSCH 9840. Quantitative Research Methods in Education. 3 Hours.**

Prerequisite: RSCH 9800. Study and application of quantitative research methodology educational settings.

**RSCH 9850. Advanced Quantitative Research Methods. 3 Hours.**

Prerequisites: RSCH 9840. Develop the skills to identify an appropriate statistical technique to interpret results for independent research and to critically evaluate contemporary social research using advanced quantitative methods. This advanced course covers complex analyses used in education and data-driven decision making. Topics include multivariate analysis of variance and covariance, repeated measures ANOVA, loglinear regression, factor analysis, discriminant analysis, canonical correlation, and an introduction to structural equation modeling and hierarchical linear modeling.

**RSCH 9860. Advanced Mixed Method. 3 Hours.**

An investigation of practical and philosophical foundations for the design and implementation of mixed method research.

**RSCH 9871. Planning for Dissertation. 1 Hour.**

Graded "Satisfactory" or "Unsatisfactory". Research seminar for the planning of the doctoral dissertation topic.

**RSCH 9872. Dissertation Topic Conceptualization. 3 Hours.**

Prerequisites: RSCH 9820 and 9840. Corequisites: RSCH 9830, 9840 or 9860. Research seminar for the development of the doctoral dissertation topic.

**RSCH 9900. Special Topics in Research. 3 Hours.**

Advanced study of specific contemporary issues in research. May be repeated under different topics.