

DMS Education Major - Course Descriptions

915: Research and Statistics

This course is designed to prepare students to interpret, evaluate, and use published educational research to improve instruction. Basic statistics, data types, and effective data presentation strategies will be reviewed. Different quantitative and qualitative study designs and data analysis techniques will be presented, with a focus on their application in medical education research. By the end of the course, students will be able to critically evaluate research studies, draw conclusions, and be able to communicate key findings in a manner appropriate for the audience.

916: Learning & Curriculum Design

This course will introduce student learning and development theories and curriculum design approaches with a focus on best practices for adult learners in medical education. Multiple curriculum design strategies will be discussed, along with factors that influence those designs such as resources, research, and accreditation. Students will have the ability to build a curriculum that aligns with ARC-PA standards, program competencies, and course and unit learning objectives.

917: Program Evaluation

This course is designed for students to gain knowledge of the evaluation process, including impact assessment, cost analysis, program effectiveness, and development of policy measures. Topics include how to evaluate strategic planning, the accreditation review process, curriculum, student advising and mentoring, clinical practice, and scholarship. Students will gain practical experience through a series of exercises involving the design of a curriculum evaluation plan to include both a process and impact evaluation.

918: Designing & Delivering Instruction

In this course, students will learn to integrate the concepts of adult learning theory and curriculum design to develop all aspects of a course. Activities include preparing a course syllabus, developing lesson plans and instructional materials, evaluations, and assessments. Emphasis will be placed on selection and incorporation of instructional methods, technology, and resources that promote student achievement of the specific objectives.

919: Assessment

This course will introduce foundational theories in educational assessment and their application in the design of sound assessments to measure and improve student learning. Different types of assessment methods and their role in providing feedback to students, informing future instruction, and making student progression decisions will be discussed. Participants will create assessments that measure learners' progress and achievement of specific learning objectives and be able to draw appropriate conclusions from assessment results. Participants will also learn how to identify at-risk students and implement various remediation strategies.

920: Leadership and Administration

This course is designed to develop communication and problem-solving skills required for effective educational leadership. The primary format of the class will be discussion, group exercises, and

individual presentations. There will be an emphasis on verbal and interpersonal communication, leadership theory, conflict resolution, and collaboration. Related ARC-PA Standards for administration will be reviewed and discussed throughout the course.