COURSE DESCRIPTIONS

INNOVATIVE TEACHING PRACTICES TRACK

(Total 32 SH credits, including the M.Ed. Graduate Core)

EDUC 521 Robotics and Artificial Intelligences in the K-12 Classroom (3 SH Credits)
This course provides students with a foundation in the essential components of robotics and artificial intelligence. Students will learn the evolution of robotics and AI integration in K-12 schools and how robotics and gaming are utilized as effective collaborative instructional strategies to support college and career readiness.

EDUC 525 Developing Computational Thinking and Coding in the K-12 Classroom (3 SH Credits)
This course includes an introduction to computational thinking and a broad definition of each concept (decomposition, pattern recognition, abstraction, and algorithms) in the k-12 classroom. Students will work through a series of real-world cases that illustrate how computational thinking and coding are used to solve complex problems. This course touches on the basics of various programming languages.

EDUC 502 Introduction to Blended Learning (2 SH Credits
This course is designed to provide teaching professionals and pre-professionals with an introduction to blended learning, and the skills they will need to create a hybrid learning environment in their current or future classrooms. Students will utilize face-to-face instructional strategies and combine them with digital and project-based learning strategies. Participants will discover the benefits of facilitating learning through a constructivist approach to classroom instruction and will have an opportunity to compare this methodology to the more well-known instructivist model. Face-to-face sessions will occur via electronic medium and participants will be required to model, provide evidence (record, demonstrate, etc.) the development of a blended learning environment and to demonstrate their 21st Century teaching skills.

EDUC 503 Online K-12 Instructional Methodology (3 SH Credits)
This course introduces K-12 online instruction to allow learners to acquire the perspective of both K-12 students and instructors in an online environment. Learners will use tools and resources to explore the critical components of being an effective online instructor. This course includes a focus on ethical issues and practices for online teaching and learning using the ND approved Code of Ethics in additional to areas such as online security, instructional feedback, and brain-based learning.

EDUC 504 Learning Management Systems, Student Information Systems, & Online Curriculum (2 SH Credits)
In this course, students will evaluate Learning Management Systems (LMS's) and Student Information Systems (SIS's). Students will learn to use functions of an LMS to create an engaging course that is adaptive and responsive for K-12 learners. Students will understand basic construction of an online course designed for grades K-12 and evaluate online course content and navigation, quality, levels of student engagement, and use of social or group activities. Students will create a module in an LMS and design their own course.

EDUC 505 Action Research Online Teaching Field Study (3 SH Credits
This field study provides students experience teaching online with active enrollments. Students will use their school's LMS, SIS, and follow school protocol. Students demonstrate their understanding of how K-12 students learn in an online environment during this 16-week course. *If a student does not have their own classroom, arrangements for the field study will be made.

Prerequisites: 502, 503, 504, and 507 Research Methods.

M.ED. GRADUATE CORE (16 SH CREDITS)

EDUC 507 Research Methods (3 SH Credits)
This course covers the methodology of design and research study. Students will outline an action research project relevant to their own interests and practice.

EDUC 501 Topics and Trends in Education (2 SH Credits)
A broad range of educational issues including government funding; technology in education; diversity and cultural competency; standards, testing, and accreditation; roles of administrators, faculty, staff; teacher shortage; tenure; and graduation rates will be explored for K-12 and Higher Ed. Students will investigate common themes and patterns of trends from K-12 through Higher Education.

EDUC 506 Educational Law and Ethics (2 SH Credits)
This course examines how changes in law and society directly impact decision-making for schools and organizations. Legal issues for leaders, administrators, school boards, and teachers are included in this comprehensive course of study.

EDUC 508 Organizational Leadership (3 SH Credits)
This course provides preparation from a management perspective in which students will develop skills to set strategic goals based on the mission of the school or organization; create and promote positive culture and climate; motivate and provide leadership; plan for training and implementation of initiatives; and create partnerships with stakeholders within the community.

EDUC 510 Diversity & Societal Change (3 SH Credits)
This course provides students with a broad perspective of diversity concerning inclusive multicultural educational practices. Students will examine current instructional delivery models for diverse populations while increasing responsiveness and awareness of personal attitudes and biases. This course aims to provide students with resources to develop skills to advocate for equity and inclusion.

EDUC 545 Grant Writing (3 SH Credits)
This course will help students locate sources for grants and provide proper education and guidance for submitting an effective proposal. Content will include reviewing the grant writing terminology, the application process, writing tips, budget development, and specific techniques for developing and submitting a proposal. Students will complete a grant proposal that is ready for submission.