EDUCATIONAL CURRICULUM & INSTR (EDCI)

EDCI 5308 STRATEGIES FOR TEACH SEC SCHOO
3 Semester Credit Hours (3 Lecture Hours)
STRATEGIES FOR TEACHING IN THE SECONDARY SCHOOL A course emphasizing practical and varied strategies for instructional planning and presentations. Instruction will build upon the following topics, which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences. Enrollment limited to graduate students seeking initial certification.

EDCI 5315 METHODS OF TEACHING MATHEMATIC
3 Semester Credit Hours (3 Lecture Hours)
A course emphasizing the teaching of mathematics in Grades 1-8 using manipulatives in a problem-solving format. Instruction will build upon the following topics which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences. Enrollment limited to graduate students seeking initial teacher certification.

EDCI 5316 METHODS OF TEACHING SOC STUDIE
3 Semester Credit Hours (3 Lecture Hours)
METHODS OF TEACHING SOCIAL STUDIES A course emphasizing practical applications for the teaching of social studies in Grades 1-8. Instruction will build upon the following topics, which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences.

EDCI 5317 METHODS OF TEACHING SCIENCE
3 Semester Credit Hours (3 Lecture Hours)
This course is designed to provide pre-service teachers with an understanding of the teaching of science in the elementary school setting. Students must make prior knowledge from previous courses will be essential to their performance in this course, namely: technology in the classroom, lesson planning, curriculum organization, and student assessment. Participation in field experiences is a requirement of the course.

EDCI 5320 Mathematics through Communication
3 Semester Credit Hours (3 Lecture Hours)
A course for elementary and middle school teachers who are trying to improve mathematics teaching and understanding through the development of communication skills and their use in the mathematics classroom.

EDCI 5321 Mathematics through Children's Literature
3 Semester Credit Hours (3 Lecture Hours)
This is a course for teachers who wish to investigate the connection between children's literature and mathematics for the purpose of improving mathematics instruction. Teachers will work through activities based upon children's books, and develop and share similar activities based upon children's books of their choosing.

EDCI 5322 Science through Children's Literature
3 Semester Credit Hours (3 Lecture Hours)
This course is designed for elementary and middle school teachers who wish to investigate the connections between children's literature and science for the purpose of improving their science instruction. Teachers will participate in activities based on children's trade books that have scientific themes, and develop and share similar experiences.

EDCI 5323 Interactive and Multimedia Approaches in Mathematics
3 Semester Credit Hours (3 Lecture Hours)
This is a course for K-12 teachers who wish to investigate the use of motivational and reinforcement activities as a part of the instructional program within mathematics. Emphases will be placed on the purposes for using such activities in the mathematics program, the various types of such activities that are available to the mathematics teacher, the sources for such activities in mathematics, and the need for having a variety of such activities within the mathematics program.

EDCI 5324 Diagnosis and Remediation of Mathematical Errors
3 Semester Credit Hours (3 Lecture Hours)
This is a course for teachers of K-12 who teach mathematics within the levels of kindergarten through algebra and wish to investigate mathematical errors for the purpose of diagnosing the cause and planning instruction for the purpose of remediation. Participating teachers will work through activities representing common mathematical errors made by students, maintain portfolios of samples of student errors, diagnose student errors, and learn teaching strategies for remediation of the problems that students are having.

EDCI 5325 Applied Connections: Mathematics, Science, and Communications
3 Semester Credit Hours (3 Lecture Hours)
The emphasis in this course is on interdisciplinary connections among mathematics, science, and communication and also on the application of subject-area knowledge to the world of work. Attention goes to relevant research, particularly research addressing effective innovations in teaching and learning. Networks will be created to support continued learning.

EDCI 5327 STRAT OF SUCCESS FOR THE BEG T
3 Semester Credit Hours (3 Lecture Hours)
STRATEGIES OF SUCCESS FOR THE BEGINNING TEACHER This course is a field-based course in which beginning teachers are provided with the application of learning principles, classroom management techniques, communication skills, and teaching strategies that will reinforce their existing teaching skills. Enrollment is limited to certified teachers currently in teaching positions. This course is taken concurrently with EDCI 5397. This course may not be taken for graduate credit if the student has taken EDCI 5393, EDCI 5394 or EDCI 5395.

EDCI 5330 Teaching Environmental Sciences: I
3 Semester Credit Hours (3 Lecture Hours)
In this course, emphasis will be placed on issues related to air, water and waste reduction, and how these issues relate to the elementary classroom. Students will visit state agencies and industrial sites as a part of this course. This course is only offered during the summer.

EDCI 5331 Teaching Environmental Sciences: II
3 Semester Credit Hours (3 Lecture Hours)
In this course, emphasis will be placed on issues related to air, water and waste reduction, and how these issues relate to the secondary classroom. Students will visit state agencies and industrial sites as a part of this course. This course is only offered during the summer.
EDCI 5335  Methods of Teaching Mathematics: Grades 1-5
3 Semester Credit Hours (3 Lecture Hours)
A course designed to emphasize methods of teaching the essential elements in mathematics for Grades 1-5. An emphasis will be placed on the use of concrete manipulatives so that learning is accomplished with understanding.

EDCI 5336  Methods of Teaching Mathematics: Grades 5-8
3 Semester Credit Hours (3 Lecture Hours)
Emphasis will be placed on modeling with concrete manipulatives, teaching for understanding, integrating mathematics into other areas of the curriculum, problem solving, diagnosis, and evaluation.

EDCI 5339  Programs for the Gifted and Talented
3 Semester Credit Hours (3 Lecture Hours)
Characteristics and methods of identification of the Gifted and Talented. Various programmatic models including campus and district will be examined. Testing instruments and the concepts of differentiated curriculum will be analyzed.

EDCI 5340  Instructional Techniques for Effective Teaching
3 Semester Credit Hours (3 Lecture Hours)
This course will emphasize research-based strategies for increasing student achievement, models of successful instruction to help teachers/administrators plan, and techniques for implementation of effective instructional techniques.

EDCI 5341  Learning Theory Related to the Gifted Child
3 Semester Credit Hours (3 Lecture Hours)
An examination of current learning theories in relation to the gifted and talented child.
Prerequisite: EDCI 5339.

EDCI 5342  Curriculum Development for the Gifted and Talented
3 Semester Credit Hours (3 Lecture Hours)
Learning experiences in scope and sequence development, development of unit plans and lesson plans, and material selection and evaluation.
Prerequisite: EDCI 5339.

EDCI 5345  Visual Literacy
3 Semester Credit Hours (3 Lecture Hours)
This course acquaints learners with a blend of instructional design, development, and production competencies that will contribute to their visual literacy. Instructional materials' design and development skills learned will be based on theoretical and research issues related to visual literacy.

EDCI 5350  Advanced School Problems
3 Semester Credit Hours (3 Lecture Hours)
Current issues in education; recent research bearing on teaching and organization of instructional programs in schools.

EDCI 5361  Educational Assessment
3 Semester Credit Hours (3 Lecture Hours)
This course will help educators to understand testing and performance assessment, and to effectively use assessment to support student learning ultimately building student success. The course prepares educators to use assessment as a tool to help develop all students in their classroom across the developmental span from Kindergarten through high school. Educators will learn how to prepare valid assessment instruments that contribute to effective instruction and student learning by developing proven, sound, high-quality assessments for use in the classroom.

EDCI 5362  Theoretical Bases for Curriculum
3 Semester Credit Hours (3 Lecture Hours)
Reviewing and designing instructional programs; specific techniques for planning in various areas of the curriculum; concentration in area of student's curricular specialty; specification of instructional objectives.

EDCI 5389  Curriculum and Instruction Research Seminar
3 Semester Credit Hours (3 Lecture Hours)
This is designed as the culminating course in the interdisciplinary curriculum and instruction master's degree. Covered in the class are: historical and current trends in research, the critical examination of selected research studies, and a self-analysis of personal and professional interests and needs. This course calls for students to integrate and use information from previous graduate classes with information presented in this class to develop, implement, and defend an action-based research project.
Prerequisite: EDFN 5301 and EDCI 5340.

EDCI 5390  Professional Seminar
1-3 Semester Credit Hours (1 Lecture Hour)
This course addresses contemporary issues in education. It may repeated when topics vary.

EDCI 5393  INTERNSHIP I AND SEMINAR FOR THE INTERN TEACHER
3 Semester Credit Hours (3 Lecture Hours)
This course is a supervised classroom teaching field experience and seminar designed to assist the non-certified teacher with the application of various aspects of planning for teaching. Enrollment is limited to graduate students seeking initial teacher certification.

EDCI 5394  INTERNSHIP II AND SEMINAR FOR THE INTERN TEACHER
3 Semester Credit Hours (3 Lecture Hours)
This course is a supervised classroom teaching field experience and seminar designed to assist the non-certified teacher with the application of classroom management techniques, and enhance existing teaching skills. Enrollment is limited to graduate students seeking initial teacher certification.

EDCI 5395  Strategies of Success II for the Beginning Teacher
3 Semester Credit Hours (3 Lecture Hours)
This course is provided for beginning teachers during their second year on a "Probationary Certificate." Students are provided with the application of learning principles, communication skills, and teaching strategies that will reinforce their existing teaching skills. Enrollment is limited to teachers on a TEA "Probationary Certificate," but currently in teaching positions. This course is taken during the second semester of the second year on a "Probationary Certificate."
Prerequisite: EDCI 5393, 5394 and 5327.

EDCI 5397  PRACT 1 FOR THE BEGINNING TEAC
3 Semester Credit Hours (3 Lecture Hours)
PRACTICUM I FOR THE BEGINNING TEACHER This course is a supervised classroom teaching field experience designed to enhance the individual teacher's existing teaching skills. Enrollment is limited to certified teachers currently in teaching positions. This course is taken concurrently with EDCI 5327. This course may not be taken for graduate credit if the student has taken EDCI 5393, EDCI 5394 or EDCI 5395.

EDCI 5398  PRACT II AND SEMINAR FOR THE B
3 Semester Credit Hours (3 Lecture Hours)
PRACTICUM II AND SEMINAR FOR THE BEGINNING TEACHER Beginning teachers are provided with additional skills to enrich their classroom teaching proficiency through seminars and supervised classroom teaching. Enrollment is limited to certified teachers currently in teaching positions.
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