EDUCATIONAL CURRICULUM & INSTR (EDCI)

EDCI 5308 STRATEGIES FOR TEACH SEC SCHOOL
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)
METHODS OF TEACHING MATHEMATICS 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)
METHODS OF TEACHING SCIENCE This course is designed to provide pre-service teachers with an understanding of the teaching of science in the elementary school setting. Students who have taken EDCI 5393, EDCI 5394 or EDCI 5395. Enrollment limited to graduate students currently in teaching positions. Participation in field experiences is a requirement of this 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 1-7  
3 Semester Credit Hours (3 Lecture Hours)  
A course designed to emphasize methods of teaching the essential  
elements in mathematics for Grades 1-7. An emphasis will be placed  
on the use of concrete manipulatives so that learning is accomplished  
understanding.

EDCI 5336  Methods of Teaching Mathematics: Grades 7-8  
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)  
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 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  
3 Semester Credit Hours  
This course addresses contemporary issues in education. It may  
repeated when topics vary.

EDCI 5391  PRACT 1 FOR THE BEGINNING TEACHER  
3 Semester Credit Hours (3 Lecture Hours)  
This course is 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  
graduate students seeking initial teacher certification. Interns must be  
enrolled in EDCI 5306 or have completed EDCI 5306.

EDCI 5392  PRACT II AND SEMINAR FOR THE INTERN TEACHER  
3 Semester Credit Hours (3 Lecture Hours)  
This course is 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  
graduate students seeking initial teacher certification.

EDCI 5393  INTERNSHIP I AND SEMINAR FOR THE INTERN 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.  
Prerequisite: EDCI 5393, 5394 and 5327.

EDCI 5397  PRACT 1 FOR THE BEGINNING TEACH  
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 BEGINNING TEACHER  
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.
EDCI 5696 Directed Individual Study
1-6 Semester Credit Hours (1-6 Lecture Hours)
May be repeated when topics vary.

EDCI 5698 Practicum for Gifted Children
6 Semester Credit Hours (6 Lecture Hours)
This course involves a supervised experience with a variety of children classified as gifted. Students will plan and implement a program designed for gifted children.
Prerequisite: EDCI 5339.

EDCI 6301 Philosophy of Education
3 Semester Credit Hours (3 Lecture Hours)
Ontological and epistemological perspectives on leadership; historical conceptions of leadership as revealed in the works of Greek and Roman writers of the classical period and in the works of later European writers such as Machiavelli, Hobbes, Rousseau, Mill, and Weber.

EDCI 6303 Issues in Curriculum and Instruction
3 Semester Credit Hours (3 Lecture Hours)
This course will prepare the doctoral student in curriculum and instruction to understand, appreciate, and evaluate a variety of curricular strategies with attention paid to a continuum of philosophies and strategies in the area of curriculum development and the impact of those on instruction.
Prerequisite: EDCI 6301 or 6324.

EDCI 6324 Curriculum Theory
3 Semester Credit Hours (3 Lecture Hours)
An analysis of theoretical structures underlying curriculum development, implementation and evaluation.

EDCI 6335 Curriculum Research Design
3 Semester Credit Hours (3 Lecture Hours)
This course focuses on the design of research studies, including experimental and quasi-experimental designs, other quantitatively-based designs, qualitatively-oriented designs, and mixed model designs.
Prerequisite: (EDLD 6392) and (EDLD 6333) and (EDLD 6384) and (EDLD 6385).

EDCI 6336 Culture, Language, and Cognition
3 Semester Credit Hours (3 Lecture Hours)
The focus is on cultural, linguistic, and pedagogical rationales for adapting curricula and materials to meet the needs of diverse students. By adopting various theoretical, methodological, and cultural frames of reference, course participants recognize capabilities in all learners.

EDCI 6356 Writing for Publications in Higher Education
3 Semester Credit Hours (3 Lecture Hours)
This course addresses topics in writing for publication in higher education including the writing process, composition, organization, collaboration, and the identification of forums for dissemination of research and scholarship.

EDCI 6390 Special Topics in Curriculum
3 Semester Credit Hours (3 Lecture Hours)
This course addresses contemporary issues in education. Topics vary. It may be repeated when topics vary.

EDCI 6391 Historical Perspectives On Curriculum
3 Semester Credit Hours (3 Lecture Hours)
Taking a historical perspective on the purposes and practices of schooling, this course covers major patterns in curriculum through the years in a national and global context. Also addressed are historiography and the history of educational research.

EDCI 6392 Critical Pedagogy
3 Semester Credit Hours (3 Lecture Hours)
Attention goes to a set of philosophical positions and educational practices known as "critical pedagogy" and also to critiques and inquiries associated with this line of scholarship that address issues of difference and disadvantage. The course considers historical patterns as well as current manifestations in such areas as race, gender, and politics.

EDCI 6397 Seminar On Dissertation Research
3 Semester Credit Hours (3 Lecture Hours)
This course is designed to assist students in writing a research proposal (introduction, review of literature, methods) that may become the basis for a doctoral dissertation.
Prerequisite: (EDCI 6335).

EDCI 6398 Dissertation in Progress
1-6 Semester Credit Hours
Doctoral candidates conduct an approved study under the supervision of a dissertation advisor and committee.

EDCI 6696 Directed Individual Study
1-6 Semester Credit Hours
May be repeated when topics vary.