CURRICULUM AND INSTRUCTION (CI)

 courses

CI 199 Undergraduate Open Seminar  credit: 1 to 5 Hours. 

CI 260 Serving Child in Schools/Comm  credit: 3 Hours. 

CI 395 Independent Study  credit: 2 or 3 Hours. 

CI 401 Introductory Teaching in a Diverse Society  credit: 3 Hours. 

CI 402 Teaching Diverse Middle Grade Students  credit: 3 Hours. 

CI 403 Teaching a Diverse High School Student Population  credit: 3 Hours. 

CI 404 Teaching and Assessing Secondary School Students  credit: 3 Hours. 

CI 405 Introduction to Teaching Elementary Age Children  credit: 3 Hours. 

CI 406 Theory Practice in Elementary School Teaching I  credit: 3 Hours. 

CI 407 Theory Practice in Elementary School Teaching II  credit: 3 Hours. 

Information listed in this catalog is current as of 10/2017
CI 410 Middle School Instruction, Philosophy and Structures credit: 3 Hours.
This course will introduce middle school concept and philosophy; cover common instructional and assessment strategies aligned with this concept, with a specific focus on curriculum integration and the use of newer communication technologies; and will review middle school organizational structures, including teaming, advisory, alternative scheduling, exploratory classes, and parental involvement. Students will connect theory and practice by incorporating their concurrent field placement (in middle level setting) into assignments and discussions. 3 undergraduate hours. 3 graduate hours.

CI 415 Language Varieties, Cultures and Learning credit: 3 Hours.
For students in the early childhood, elementary and middle grades licensure programs. Introduces students to issues related to first- and second-language development, cultural diversity, and language variation. Addresses the above issues in terms of teaching and learning and serves as a base for subsequent courses that will extend these issues in the content areas. 3 undergraduate hours. 3 graduate hours. Prerequisite: Admission to a teacher preparation program.

CI 420 Foundations of Early Childhood Education credit: 5 Hours.
Students will study the role of the early childhood teacher in designing, organizing, and implementing educational programs for children in preschools, kindergartens, and the primary grades. This course includes the history, philosophy, and theory of early childhood education. Students will complete a morning field placement in a local elementary school. 5 undergraduate hours. 5 graduate hours. Prerequisite: Admission to the Early Childhood Teacher Education Program; EPSY 236; EPS 201.

CI 421 Prin & Prac in Early Childhood credit: 3 Hours.
Studies the principles and practices of using play as an educational tool in early childhood education; reviews historical, philosophical, and psychological foundations of nursery-kindergarten methods; assesses techniques relating play to various aspects of instruction; surveys materials and equipment; and presents methods of classroom evaluation. 3 undergraduate hours. No graduate credit. Prerequisite: CI 420; admission to the Early Childhood Teacher Education Program. Concurrent enrollment in EDPR 420 and EDPR 438; credit or concurrent registration in EDPR 250, section EC.

CI 422 Families, Communities, Schools credit: 3 Hours.
Principles and practices of building partnerships and collaboration among families, community agencies, and schools in a diverse society for early childhood professionals; covers strategies for building understanding, trust, and effective communication with all children and their families including those who have special needs, have cultural and linguistic differences, come from non-traditional family configurations, and who face poverty, health problems, and/or family dysfunction. 3 undergraduate hours. 3 graduate hours. Prerequisite: Admission to the Early Childhood Teacher Education Program.

CI 424 Child Development & Technology credit: 3 or 4 Hours.
Theories of development will inform an analysis of current technologies marketed for pre-school children; issues related to technology and childhood will be explored. One class each week will focus on lectures and discussions about child development, the second class will focus on presentation of technology or technology genre and evaluation of their value for young children. 3 undergraduate hours. 4 graduate hours. Approved for both letter and S/U grading.

CI 430 Teaching Children Mathematics credit: 3 Hours.
Examines children’s learning of mathematics and meaningful instructional methods, representations and materials. Emphasis given to number and operations (including both whole and rational numbers), number theory and statistics/probability. Includes laboratory experience with supervised problem solving. 3 undergraduate hours. 3 graduate hours. Credit is not given for both CI 430 and CI 431. Prerequisite: MATH 103; admission to the Elementary Teacher Education Program.

CI 431 Tchg Elementary Mathematics credit: 4 Hours.
Examines the organization, scope, and sequence of the mathematics program and the functional nature of mathematics; methods, techniques, experiences, and materials of value in teaching mathematics, and the role of the classroom teacher. Includes laboratory experience, with supervised problem solving, 4 undergraduate hours. 4 graduate hours. Credit is not given for both CI 430 and CI 431. Prerequisite: MATH 103; admission to the Special Education Program.

CI 432 Invest Approach Elem Math Inst credit: 3 Hours.
Course will model and examine an investigative approach to elementary mathematics instruction, which is purposeful, inquiry-based, and meaningful mathematics instruction. Particular focus will be given to the teaching and learning of measurement, geometry and algebra/functions. 3 undergraduate hours. 3 graduate hours. Prerequisite: CI 430 or CI 431; admission to the Elementary Teacher Education Program.

CI 433 Found of Bilingual Educ credit: 2 to 4 Hours.
Analyzes historical, political, and educational influences on bilingual/ESL education in US. Theoretical foundation of bilingual and ESL programs are examined as well as the effectiveness of program models in promoting academic achievement. Meets standards and course requirements for the Illinois State Board of Education Teaching Approval and Endorsement for Bilingual and ESL teachers. Same as LLS 433. 3 undergraduate hours. 2 or 4 graduate hours.

CI 434 Teaching Secondary Math credit: 3 Hours.
This is a required course for students seeking a mathematics endorsement at the middle school level while earning or holding teacher certification in another subject area. It is also required for students completing the campus Teacher Education Minor in Mathematics for grades 9-12 and the Teacher Education Minor in Mathematics for grades 6-8. This methods course covers: a) The NCTM and Illinois Learning Standards for Mathematics, b) "Best practice" in mathematics pedagogy, c) Assessment in the mathematics classroom, d) technology in mathematics classrooms, and e) the design of unit and lesson plans in mathematics. Students will design and deliver lessons as part of their course work. 3 undergraduate hours. 3 graduate hours. Prerequisite: Prerequisite: Although there are no stated prerequisites for this course, it is advised that most, if not all, of the mathematics content requirements be completed before taking this course.

CI 435 Computer-Assisted Instruction credit: 4 Hours.
Computer-assisted instruction (CAI) and its relation to classroom teaching; the teacher’s role in development, management, and criticism of CAI lessons; treatment of topics including instructional capabilities of CAI systems, instructional programming, and the design of CAI lessons. 4 undergraduate hours. 4 graduate hours. Prerequisite: A 100 level Computer Science course or consent of instructor.
CI 436  Computer and Mathematics Educ  credit: 4 Hours.
Examines the role of the computer as an instructional tool in the
secondary school mathematics classroom; reviews curricular materials
and develops sample classroom projects in computer mathematics;
analyzes computational problems and develops algorithms for their
solution; and includes iteration, Monte Carlo methods, and simulation. 4
undergraduate hours. 4 graduate hours. Prerequisite: CS 101 or consent
of instructor.

CI 437  Educational Game Design  credit: 3 or 4 Hours.
Examines the role that physical and digital games play in learning.
Focuses on how people learn through play and how game structures
support educational outcomes. Principles of game design are described
and students apply them to the design of original games with a specified
educational objective. Students learn to prototype, playtest, and evaluate
the educational content of games. Surveys and samples games in the
areas of serious games, persuasive games, games for impact, etc. 3
undergraduate hours. 4 graduate hours. Prerequisite: Junior standing or
consent of instructor.

CI 438  Comp Prgrmmg and the Classroom  credit: 3 or 4 Hours.
A course for teaching methods related to computer programming in
K-12 settings. Introduces theoretical and practical aspects of computer
science education with an emphasis on learning to code and integrating
coding into the classroom. Reviews pedagogical trends in computer
science education for children of all ages, employing a variety of hands-
on activities using developmentally-appropriate materials and resources.
No prior programming experience required. 3 undergraduate hours. 4
graduate hours.

CI 440  Math, Sci, Tech in Early Child  credit: 5 Hours.
The principles, place and practice of science and mathematics education
in early childhood education and in the lives of young children; stresses
the functional nature of science and mathematics and their inter-
relatedness; presents methods, techniques, experiences, and materials of
value in teaching mathematics and science in early childhood education;
and the role of the classroom teacher. Opportunity for experience in
field and laboratory work. 5 undergraduate hours. 5 graduate hours.
Prerequisite: CI 420, general education requirements in mathematics
(MATH 103 or equivalent), 2 years of college science, admission to the
Early Childhood Teacher Education Program. Requires concurrent
enrollment in EDPR 432.

CI 441  Mathematics in Early Childhood Education  credit: 3 Hours.
This course focuses on the teaching of foundational mathematical
concepts in prekindergarten, kindergarten, and the primary grades. Pre-
service teachers will learn the value of "mathematizing" the worlds of
children and creating authentic experiences through which children learn
key mathematics concepts. 3 undergraduate hours. 3 graduate hours.
Prerequisite: Completed or concurrent enrollment in general education
requirements in mathematics, admission to the Early Childhood Teacher
Education Program. Early Childhood Education majors only. Must be
taken concurrently with CI 420.

CI 444  Social Stud Early Childhood Ed  credit: 2 Hours.
Course emphasizes the place of social studies in early childhood
education program (preschool - grade 3). Focuses on several areas of
knowledge related to the social life of the community as it is concerned
with young children; (1) knowledge from the social sciences, (2) social
cognition and social skills learning, and (3) ways of dealing with
cultural and social diversity. 2 undergraduate hours. 2 graduate hours.
Prerequisite: CI 420; admission to the Early Childhood Teacher Education
Program.

CI 445  Science and Social Studies Inquiry  credit: 3 Hours.
This course is an exploration into the construct of inquiry as an essential
human trait and methodological approach for teaching and learning.
Through the disciplines of science and social studies we will inquire into
elements and methods for building inclusive and critical communities
of practice, designing curriculum for depth of understanding, and using
documentation as democratic action. This course will encompass and
revisit enduring understandings from the entire ECE professional
program sequence, mediated by Danielson's Framework for Teaching.
Cohort members will synthesize the above in the real context of student
teaching placements, class meetings, online discussions, and course
assignments. 3 undergraduate hours. 3 graduate hours. Prerequisite:
CI 421. Concurrent enrollment in EDPR 432 is required.

CI 446  Culture in the Classroom  credit: 2 to 4 Hours.
Explores cultural, political, and social factors that affect learning and
teaching. Introduces students to the fields of educational anthropology
and multicultural education and to the application of cultural information
to curriculum development and classroom practice. The 3-hour
undergraduate version and 4-hour graduate version meet the Cross-
Cultural Studies for Teaching Limited-English-Proficient Students
requirement for Bilingual and/or ESL Teaching Approval or Endorsement
from the Illinois State Board of Education. 3 undergraduate hours. 2 or 4
graduate hours.

CI 447  Tchg Elem Social Studies  credit: 3 Hours.
Course examines the nature and role of social studies in elementary
schools, both in terms of the formal curriculum and of the impact of
the school as a social system on children's social learning. Examines
multiple approaches to what should be experienced and learned in social
studies as well as the nature of social inquiry. Various instructional
methods emphasizing direct experiences as well as reading are
emphasized. Local, state, and national trends in curriculum and
evaluation are addressed. Students engage in social inquiry, as well as
develop, implement, and evaluate an action research project focusing in
depth on a particular practice of social education. 3 undergraduate hours.
3 graduate hours. Prerequisite: Admission to the Elementary Teacher
Education Program.

CI 448  Issues in Latina/o Educ  credit: 2 to 4 Hours.
Criticizes and explores various theoretical frameworks used to explain
Latina/Latino academic achievement. Examines curricular and
instructional issues by investigating how different school systems
have implemented schooling for Latina/Latino students. Develops
critical understanding of the role of education within the Latina/Latino
community. Same as LLS 449. 3 undergraduate hours. 2 or 4 graduate
hours.

CI 449  Teaching Elementary Science I  credit: 3 Hours.
Course is the first of two, 3-hour science methods courses in the
elementary education program, which will examine elementary science
content, learning theory, and the teaching of science in the elementary
school. 3 undergraduate hours. 3 graduate hours. Prerequisite:
Admission to the Elementary Teacher Education Program.

CI 450  Teaching Elementary Science II  credit: 3 Hours.
Course is the second of two 3-hour science methods courses in the
elementary education program. Focus on in-depth understanding of
inquiry science teaching. Coursework is integrated with field assignments
in schools. Topics include curriculum materials; literacy instruction in
science; children's "thinking" about science; differentiated instruction;
assessment; incorporating technology. 3 undergraduate hours. 3
graduate hours. Prerequisite: CI 450; admission to the Elementary
Teacher Education Program.

Information listed in this catalog is current as of 10/2017
CI 452  Soc Stu as Action and Inquiry  credit: 3 or 4 Hours.
This course continues the application of methods and content knowledge from CI 448 and will use an inquiry approach to study classrooms and school communities. Students will learn about teacher action research and begin planning an implement classroom inquiry in their teaching. first as a small pilot project and then a more extensive study connected with EdTPA assignments. The continuing themes of active citizenship, diversity, equity, and professional practices will guide learning and action research planning. 3 undergraduate hours. 4 graduate hours. Prerequisite: Admission to the Elementary Teacher Education Program.  

CI 465  Lang Literacy in EC Educ I  credit: 3 Hours.
Basic principles, techniques, and materials for the emergent literacy classroom. Emphasizes linguistic and cultural factors in culturally diverse settings. 3 undergraduate hours. 3 graduate hours. Prerequisite: EPSY 236; admission to the Early Childhood Teacher Education Program. Concurrent enrollment in CI 420.  

CI 466  Lang Literacy in EC Educ II  credit: 2 Hours.
Emphasizes developmentally appropriate practices for the teaching of reading and writing in grades K-2. 2 undergraduate hours. 2 graduate hours. Prerequisite: CI 465. Requires concurrent enrollment in EDPR 432.  

CI 467  Princ Tchg Lit to Child Youth  credit: 3 Hours.
Examines literature written for children and youth and the uses of literature in the school curriculum. 3 undergraduate hours. 3 graduate hours. Credit is not given for both CI 467 and LIS 403. Prerequisite: One college course in literature; admission to a teacher education preparation program.  

CI 468  Children's Lit for EC Educ  credit: 2 Hours.
Examines literature written for children ages birth-eight years, extensive reading and analysis of literature in all genres and formats; evaluations of literature in relation to cognitive and linguistic development, emergent literacy, linguistic and cultural diversity, and family and school literacy; reviews and applies theories about the functions of literature. 2 undergraduate hours. 2 graduate hours. Prerequisite: One college course in literature; admission to the Early Childhood Teacher Education Program.  

CI 471  Princ Prac Foster Indep Rdg  credit: 3 or 4 Hours.
Emphasizes reading comprehension and reading to learn in content fields in grades K-8. Includes focus on teaching reading to students from diverse cultural and linguistic backgrounds, including dialect speakers and English learners. 3 undergraduate hours. 4 graduate hours.  

CI 472  Tchg Reading in Grades 4-12  credit: 2 or 4 Hours.
Examines current literacy practices beyond the primary grades including factors related to reading comprehension, vocabulary development, fluency, and motivation. Includes issues related to diversity and ESL related to teaching reading. 3 undergraduate hours. 2 or 4 graduate hours. Prerequisite: EPSY 201; junior standing or consent of instructor.  

CI 473  Disciplinary Literacy  credit: 2 or 3 Hours.
Provides secondary and K-12 level education majors with principles and practices of effective language and literacy instruction in their content areas, consistent with the Illinois Professional Teaching Standards for educator preparation of the Illinois State Board of Education. 2 or 3 undergraduate hours. 2 or 3 graduate hours. Students in music and kinesiology education take for 2 credit hours; students in agriculture, art, mathematics, science, social studies, and English education take for 3 credit hours. Prerequisite: Admission to a teacher education program.  

CI 475  Teaching Elementary Reading and Language Arts I  credit: 3 or 4 Hours.
First of a two-course sequence that examines the basic theories, issues, methods, and materials for a developmental 1-6 language arts program. Emphasizes the need to integrate the four language arts (reading, writing, speaking, and listening) as tools for learning across the curriculum. Addresses cultural diversity in language arts instruction, with emphasis on linguistic diversity. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Prerequisite: CI 467 and admission to the Elementary Teacher Education Program. Elementary Education students register for 3 hours. Special Education students register for 4 hours.  

CI 476  Teaching Elementary and Middle Grade Language Arts  credit: 3 Hours.
Second of a two-course sequence that examines the basic theories, issues, methods, and materials for a developmental K-8 language arts program. It continues to emphasize the need to integrate the four language arts (reading, writing, speaking, and listening) as tools for learning across the curriculum. This second course, however, places a relatively greater emphasis on writing than on reading, speaking, and listening. Continues to address cultural diversity in language arts instruction, with emphasis on linguistic diversity. 3 undergraduate hours. 3 graduate hours. Prerequisite: CI 467 and CI 475 or CI 471; admission to the middle grades major, elementary major, or consent of instructor.  

CI 477  Biling ESL Methods & Material  credit: 4 Hours.
Focuses on bilingual and English-as-a-second language (ESL) curriculum development and instruction for bilingual and second-language learners (K-12) in a variety of language and program settings. Emphasizes bilingual and ESL materials selection and development, bilingual and ESL literacy instruction, bilingual and ESL content area instruction, and sheltered English instruction. Issues related to second-language acquisition, cultural and linguistic diversity, and parental and community involvement are reviewed. 4 undergraduate hours. 4 graduate hours. Prerequisite: CI 433 or consent of instructor.  

CI 482  Social Learning and Multimedia  credit: 3 or 4 Hours.
Learning in multimodal environments from a social and cultural perspective. Topics include the formation and expression of individual and group identity across multiple contexts, including social networking, online gaming, reality television programs, streamed video, and in online courses. Assignments include both analytic and project-based tasks, with an emphasis on implications for formal learning environments. 3 undergraduate hours. 4 graduate hours.  

CI 484  Learning Technologies  credit: 3 or 4 Hours.
Same as HRD 472. See HRD 472.  

CI 485  Assessing Student Performance  credit: 3 or 4 Hours.
Same as EPSY 485. See EPSY 485.  

CI 489  DELTA Capstone Project  credit: 3 or 4 Hours.
Project-based course focusing on creating Digital Environments for Learning, Teaching and Agency. Students work in teams to build technology-supported learning activities. This course provides a studio-based, hands-on and participatory approach to the development and research of technology tools and curriculum materials. 3 undergraduate hours. 4 graduate hours. Approved for Letter and S/U grading. Prerequisite: CI 481 or consent of instructor. Required capstone project course for students enrolled in DELTA concentration, others can register with instructor's consent.
CI 499  Issues and Development in Educ  credit: 2 to 4 Hours.
Seminar course on topics not treated by regularly scheduled courses; requests for initiation may be made by students or faculty member. 2 to 4 undergraduate hours. 2 to 4 graduate hours. Approved for both letter and S/U grading. May be repeated to a maximum of 8 hours. Prerequisite: Junior standing.

CI 501  Fundamentals of Curr Develop  credit: 4 Hours.
Examines a variety of definitions of curriculum developments; readings reflect current theories and research related to substantive issues in the field: how learning is influenced by stated goals of education, cultural background of the learners, structure of the school setting, competencies of teachers, psychological characteristics of the learners, and means of measuring student achievement.

CI 502  Introduction to Reading  credit: 2 or 4 Hours.
Provides an overview of reading in the US. Topics covered include the definition of reading and its importance, theoretical models and philosophies of reading and reading instruction, the history of reading instruction, the development of reading skill, current research-based reading instruction, Federal legislation affecting reading instruction, and professional and state standards related to reading instruction.

CI 503  Reading Instruction, K-5  credit: 4 Hours.
The first of two courses focusing on research-based reading instruction for students in grades K-12. This course focuses primarily on the development of literacy from birth to preschool and reading instruction for the elementary grades, K-5.

CI 504  Reading Instruction, 6-12  credit: 4 Hours.
The second of two courses focusing on research-based reading instruction for students in grades K-12. This course focuses primarily on reading instruction for middle and high school students, grades 6-12. Reading comprehension in the content areas is a particular emphasis. Prerequisite: CI 503.

CI 505  Reading for Diverse Students  credit: 4 Hours.
Reviews many of the linguistic, cultural, and social factors that affect students (K-12) reading instruction, assessment, and development. Drawing on socio-cognitive and socio-constructivist theories of literacy and culturally responsive pedagogy and social justice issues, the course involves the evaluation and design of instruction and assessments for students from diverse linguistic, cultural, and class backgrounds.

CI 506  Reading Coaching & Leadership  credit: 4 Hours.
The course consists of two 2-hour components (1 and 2). The first component introduces students to course readings and discussions that explore the various roles of the K-12 reading specialist, including leadership, assessment, and coaching. The second component involves completion of an internship with a reading coach or reading specialist in which students observe and take on the roles of the reading specialist in professional development, curriculum design, instruction, and the management of resources. Both of these components are completed within the same semester. Prerequisite: CI 503, CI 504.

CI 507  Prob Trends in Spec Fields  credit: 4 Hours.
Intensive examination of problems and trends in the subject fields. May be repeated to a maximum of 8 hours.

CI 508  Urban Schs & Schooling  credit: 4 Hours.
This course is for anyone interested in issues of education in urban settings. It provides an overview of sociopolitical perspectives on teaching and learning for Latina/o, African American, American Indian, English learners, and other marginalized youth. The course explores how issues of identity and power are negotiated by students, communities, and teachers. Participants in the course will develop an understanding on how racism, classism, and the politics of language operate within urban schools. An emphasis of the course is on solutions that address social justice.

CI 509  Curriculum Research  credit: 4 Hours.
Reviews the principal methodologies used in research on curriculum problems; emphasizes subject-analytical, large-scale survey, experimental, case methods, and clinical studies; emphasizes the conceptual and practical problems in such research.

CI 512  Mult Educ/Global Perspectives  credit: 4 Hours.
Examines important topics in the area of multicultural education in the United States and around the world. Engages students in the critical exploration of theories and literature that interrogate traditional views of multicultural education. Analyzes issues of race, class, gender, religion, nationality, xenophobia, homophobia, and ability in the contexts of classrooms and other educational settings. Course work focuses on an emancipatory curriculum and pedagogy for transformation and social justice education. Same as AFST 555.

CI 517  Bilingual and English as a Second Language Assessment  credit: 4 Hours.
Explores the role of assessment in education of culturally and linguistically diverse students in K - 12 classrooms. Current trends in assessment in the United States will be analyzed as well as how assessments are used for the identification and placement of bilingual and ESL students. The use and scoring of language proficiency assessments will be examined along with various forms of classroom-based assessment. Meets ISBE assessment requirements for a bilingual and ESL teaching approval or endorsement. Same as LLS 517. 4 graduate hours. No professional credit. Prerequisite: CI 433 and CI 477 or consent of instructor.

CI 518  Evaluation of Edu Programs  credit: 4 Hours.
Origins, assumptions, applications, and development of approaches to educational program evaluation in practice over the past twenty years; unobtrusive measures and noneducation evaluation systems; and practice in collecting evaluative data. Same as EPSY 572. Prerequisite: EPSY 480, one year of work with children or youth in an institutional setting, or consent of instructor.

CI 519  Methods of Child Study  credit: 4 Hours.
Studies ways in which teachers can evaluate child behavior and development with an emphasis on classroom application; instruction and practice in the use and interpretation of observations, anecdotal records, rating scales, interviews, achievement tests, intelligence tests, questionnaires, and sociometric and projective techniques. Prerequisite: EPSY 404 or consent of instructor.

CI 520  History of Early Childhood Pedagogy and Programs  credit: 4 Hours.
This course is an overview of historical influences of contemporary early childhood pedagogy and programs. Topics may include, but are not limited to, Enlightenment Era educational reforms, German kindergartens, the Progressive Era, and the War on Poverty. 4 graduate hours. No professional credit.
CI 521 Curr Prob Trends in EC Edu credit: 4 Hours. Includes principles underlying education practices in day care centers, preschool/nursery and kindergarten settings derived from theory and research in developmental psychology, social psychology, anthropology, and other related disciplines.

CI 522 Arts in Early Childhood and Elementary: Curriculum in Context credit: 4 Hours. Role of dance, drama, music, literature, and the visual arts in early childhood and elementary education, focusing on production/performance, appreciation, history, and aesthetics. Interrelationships among curriculum, notions of child development, cultural contexts, and unique traditions of different arts disciplines. Current art education practices in the United States and other countries. Requires attendance at performances and visits to an art museum. 4 graduate hours. No professional credit. Prerequisite: Graduate status.

CI 526 Capstone II: Completion credit: 4 Hours. Survey of research and best practices for producing instructional change within schools or programs, with an emphasis on the improvement of curriculum and instruction across grade levels. Students will analyze data collected from the current and previous semesters and write a report of their findings. Students will engage in professional learning communities to continue work in school contexts. Prerequisite: For students in the Advanced Instructional Design master's program.

CI 530 Trends and Issues in Math Edu credit: 4 Hours. Addresses theories of learning, research studies, curriculum development projects, and other factors that have influenced elementary mathematics programs; also considers problems and issues in contemporary programs. Prerequisite: CI 500 or CI 520 or consent of instructor.

CI 532 Prof Development in Math Ed credit: 4 Hours. Considers research perspectives, policies and practices associated with the professional development of mathematics teachers. Specifically, students will examine what policymakers recommend for effective professional development, what research findings seem to suggest, how schools do professional development for successful mathematics teaching, and the implications of policy and real world practices for equality of opportunity for mathematics learning.

CI 533 Problem Solving in Math Ed credit: 4 Hours. Focuses on the role of problem solving in the learning and teaching of mathematics. Examines mathematical problem solving processes, as well as issues surrounding the use of problem solving in K-12 mathematics classrooms, including recent reform trends, equity issues, and distinctions among teaching “about”, “for”, and “through” problem solving.

CI 534 Teaching and Learning Geometry credit: 4 Hours. This course concentrates on the teaching and learning of geometry in middle school and high school by examining the history of school geometry, comparing curricular expectations and rationales for geometry instruction over time. The course provides an overview of theoretical models regarding the teaching and learning of geometry. At the same time, the course provides opportunities for discussing practical issues of teaching geometry with work on geometrical problems and laboratory sessions using dynamic geometry. Prerequisite: Acceptance into a graduate program.

CI 535 Teaching and Learning Algebra credit: 4 Hours. This course examines perspectives about the teaching and learning of algebra in middle school and high school. Topics include an examination of historical perspectives on algebra in the school curriculum, a study of the nature of algebra and algebraic thinking, an analysis of teaching strategies for teaching algebra, an examination of documents on algebraic reasoning, and explorations of the use of technological tools to support the teaching and learning of algebra. Prerequisite: Acceptance into a graduate program.

CI 536 MST Proseminar I credit: 2 Hours. Provides an introduction to doctoral studies, research, and careers in Math, Science, and Technology (MST) Education. Topics include a basic orientation to research in MST education, doctoral program hurdles, potential career paths, and MST education research funding. Although this seminar is designed for CI students in MST education, students in other programs may also enroll.

CI 537 Discourse in STEM Classrooms credit: 4 Hours. An overview of relevant literature regarding discourse in STEM classrooms with emphasis on teachers’ perspectives, students’ perspectives, and interactions between the teacher and the students. Discusses research methodologies for the study of discourse in STEM classrooms and implications of research for the education and the professional development of pre-service and in-service teachers. Prerequisite: Acceptance into a graduate program.

CI 540 Current Issues in Sci Edu credit: 4 Hours. Advanced seminar in science education for teachers, consultants, and administrators. Identifies major problems and issues; analyzes current trends and research; and develops a philosophical framework related to science education. Prerequisite: Teacher education course in science and two years of college science; or consent of instructor.

CI 541 Learning in Science credit: 4 Hours. Focuses on influential theories of student learning and their implications for science education. Examines the theoretical underpinnings of these learning theories as well as their implications for student learning, instruction, and assessment.

CI 542 Science Ed & Phil of Science credit: 4 Hours. Surveys issues in philosophy of science that are central to science education through an exploration of the works of twentieth century philosophers of science who were most influential in shaping thinking about science in the science education community. Relevant readings from science and history of science are also explored. Prerequisite: College level coursework in a science discipline or consent of instructor.

CI 543 Constructivism and MST Educ credit: 4 Hours. Intended for those interested in a perspective on mathematics, science, and technology (MST) learning and teaching called constructivism, which has come to prominence in the past two decades, particularly in MST education. Constructivism focuses on the processes of sense-making or meaning construction through experience and/or social discourse. Designed to help participants examine the implications of constructivism for learning and teaching in mathematics, science, and technology. Prerequisite: A basic familiarity with mathematics, science, and/or technology.

CI 544 Ed Reforms & Inquiry credit: 4 Hours. This course examines the history of science education reform efforts since the 1950s from the lens of inquiry, teaching and learning. The course examines developments in our understandings of inquiry as a pedagogical approach and set of instructional outcomes in middle and high school science education, as well as implications for instructions in precollege science classroom.
CI 545  Virtual Worlds in Education  credit: 4 Hours.
Same as EPSY 554. See EPSY 554.

CI 546  MST Proseminar II  credit: 2 Hours.
The course examines the process of double-blind review and the metrics associated with refereed research journals and researcher productivity in mathematics, science, and technology education. Students will be provided with practical experiences as journal ‘referees’ through reviewing manuscripts submitted for publication, and will develop thorough understandings of the entire process of publishing in refereed journals in the field of science, mathematics, and technology education. May be repeated in separate terms to a maximum of 4 hours if topics vary.

CI 547  Sociopol Persp Math Science  credit: 4 Hours.
This course is for anyone interested in equity-related issues in mathematics and science education. It provides an overview of sociopolitical perspectives on mathematics and science education, including how issues of identity, power, and equity play out in teachings, learning, and research. Students will develop an understanding of how racism, classism, and the politics of language operate within mathematics and science classroom and in the practice of mathematics and science in society at large. An emphasis of the course is on solutions that address social justice.

CI 548  Capstone Project  credit: 2 Hours.
Part I of the course focuses on the design on an action research project (capstone project), which integrates pedagogical and science content ideas addressed in the program courses. The project amounts to an empirical investigation of a student-generated research question around issues focused on science teaching and learning. Students are expected to collect data for their project, preferably in their own classrooms, in the period between Parts I and II of the course. Part II focuses on the analysis, interpretation, and discussion of the data collected, and the implications of the findings for classroom practice. May be repeated in separate terms to a maximum of 4 hours.

CI 550  Methods of Educational Inquiry  credit: 4 Hours.
Offers a graduate-level introduction to research in education, including quantitative, qualitative and mixed methods designs and approaches. Key concepts include: identifying a research problem, reviewing the literature, design and analysis, communicating evidence, and the ethics of research. Students should gain the ability to effectively evaluate and critique design/methods sections of research publications; plan and design research studies; and organize a presentation of research to an audience of peers. Same as EPOL 550, EPSY 573, and SPED 550. 4 graduate hours. No professional credit.

CI 552  Qualitative Writing  credit: 4 Hours.
Focuses on analysis of data and writing of qualitative/ethnographic research in educational contexts. Topics include the history of qualitative research practices; approaches to the analysis and interpretation of multiple forms of data, including coding, discourse analysis, text analysis, and structural/post-structural analysis; different styles of qualitative writing; social theory as a framing device; and writing for publication. Provides a theoretically informed but very practical, hands-on approach to qualitative writing for graduate researchers across the broad range of educational and social science contexts. One part of the course focuses on methods of analysis through application, while a second part is designed as a writer’s workshop in which students “write up” the data from a study in three narrative styles. Assignments include weekly readings, three short writing assignments, and a more substantial writing project. Advanced graduate standing is useful but not required.

CI 554  Advanced Inst. Approach  credit: 4 Hours.
An action research-based approach to implementing and evaluating a broad range of research-based instructional approaches across grade levels and content areas. Includes an action-research component. Prerequisite: For students in the Advanced Instructional Design master’s program.

CI 557  Using Theory in Tea Ed Res  credit: 4 Hours.
Students in this course will read a variety of theoretical viewpoints in order to frame and critically examine teacher education research. Students will be encouraged to use multiple theories to frame research questions and findings as a way to situate themselves as researchers and consider ways in which multiple theoretical perspectives can be used to examine and interpret different aspects of their research in teacher education.

CI 558  Programs in Teacher Education  credit: 4 Hours.
The focus of this course will be a study of programs in teacher education considered in light of historical, social, and policy influences and also related to wider issues in contemporary teacher education efforts and research. We will consider the current context of teacher preparation programs in the U.S., examine the historical factors that have brought U.S. teacher education to this point, assess the influence of public policy on teacher education in the U.S. and globally, and study a variety of exemplary models of teacher education in the U.S. and globally. Students will conduct a study of a particular program and present this in a poster session at the end of the semester.

CI 560  Trends & Issues Language Arts  credit: 4 Hours.
Advanced seminar in literacy for teachers, researchers, and specialists. Focuses on trends and issues in elementary and middle school language arts. Current theories, relevant research and practical applications are considered in relation to reading, writing, listening, and speaking.

CI 561  Theory Prac in Child Comp  credit: 4 Hours.
Focuses on theory and practice of children’s written composition from preschool through middle school. Includes development of understanding of texts, pedagogy, motivation and classroom practices that facilitate writing. Students learn about their own writing, participate in peer writing conferences, and produce research or curricular projects for use in classrooms. Prerequisite: CI 475 and CI 476, or course in writing, or consent of instructor.

CI 562  Ling and the School Curr  credit: 4 Hours.
Analyses linguistics for the school curriculum including dialect diversities, use of language in social contexts, and variations in oral and written forms of language. Gives attention to classroom discourse in US and international settings, and ethnography of communication. Prerequisite: Admission to a doctoral program.

CI 563  Writing Studies  credit: 4 Hours.
Same as ENGL 505. See ENGL 505.

CI 565  Topics Research and Writing  credit: 4 Hours.
Same as ENGL 582. See ENGL 582.

CI 566  Topics Writ Pedagogy & Design  credit: 4 Hours.
Same as ENGL 583. See ENGL 583.

CI 567  Child Lit in the School Curr  credit: 4 Hours.
Investigates trends and issues related to teaching literature in the school; focuses attention upon the organization and planning of a balanced literature curriculum (fictional and informational). 4 graduate hours. No professional credit. Prerequisite: CI 467 or LIS 404 or consent of instructor.
CI 568  Cont Classics in Child Lit  credit: 4 Hours.
Critically examines children's books that have received major national and international awards and prizes and the requirements for that distinction; gives particular attention to the most recent publications so honored and their implications for use in the classroom. Prerequisite: CI 467 or CI 567, or LIS 404; and ENGL 106, or equivalent; or consent of instructor.

CI 569  Topics Discourse and Writing  credit: 4 Hours.
Same as ENGL 584. See ENGL 584.

CI 570  Issues & Trends in Reading  credit: 4 Hours.
The timing of beginning reading, the influence of certain linguistic findings on methodology and terminology in instructional materials, and the influence of research on methodology are addressed in a way that provides a historical perspective for evaluating the merit of emerging issues and trends. Prerequisite: CI 475 and CI 476 or equivalent, or consent of instructor.

CI 573  Early/Elem Rdg Inst  credit: 4 Hours.
Planning and evaluating reading instruction and materials in nursery school through Grade Three. Prerequisite: CI 475 or CI 471, or equivalent; or consent of instructor.

CI 575  Assessment in Reading  credit: 4 Hours.
Nature, causes, and diagnosis of reading difficulties; translation of diagnostic information into instructional practice. Prerequisite: CI 475 or CI 471, or equivalent.

CI 576  Assessment-Based Reading Inst  credit: 4 Hours.
Supervised experiences; special attention to evaluative and interpretative techniques in cases of severe reading disabilities based on the analysis of specific reading needs. May be repeated to a maximum of 8 hours. Prerequisite: CI 475.

CI 577  Clinical Practicum in Reading  credit: 4 Hours.
Diagnostic procedures and individual instruction with small groups of children who have reading difficulties. Prerequisite: CI 575 and CI 576.

CI 578  Bilit Dev of Young Children  credit: 4 Hours.
Helps students understand the language and literacy development of young bilinguals. Students will develop an understanding of the issues in biliteracy research, explore the diversity of research topics and perspectives in biliteracy research, and learn to think and write critically about research on early biliteracy development.

CI 580  Qual Rsch in Lang & Lit Educ  credit: 4 Hours.
Focuses on the goals and nature of qualitative, observational study of life in educational settings, with an emphasis on oral and written languages. Adopts interpretive and critical perspectives on research and includes key readings on the ethnography of oral and written communication in schools, given a socioculturally and linguistically diverse society. All students will conduct a small scale study in an education site. Prerequisite: At least one semester of graduate course work.

CI 581  Aesthetics and Curriculum  credit: 4 Hours.
Provides a synthesis of theoretical and autobiographical perspectives on aesthetic issues and their ramifications for the development and the critique of arts curricula. Drawing on art as an important source of knowledge and communication, the course reviews ideas from aesthetics and arts education (e.g., music, poetry, literature, visual arts, theater and dance education). Identifies principles common to all art forms but manifested differently in each of them to develop tools and skills for the design of, evaluation of, and research on arts curricula. Same as DANC 581. Prerequisite: Graduate standing, and background with one of the arts, or consent of instructor.

CI 582  Rdg and Wrtg Across the Curr  credit: 4 Hours.
Designed for elementary and middle school educators, this course focuses on theory and practice related to both intradisciplinary integration (across the language arts) and interdisciplinary integration (across the content areas). Specific methods and strategies for fostering effective integrated literacy instruction are explored. Prerequisite: CI 475 and CI 476, or equivalent methods course in reading and language arts.

CI 584  Theories in SLA  credit: 4 Hours.
Same as EALC 584, EPSY 563, FR 584, GER 584, ITAL 584, LING 584, PORT 584, and SPAN 584. See SPAN 584.

CI 585  Informational Children's Lit  credit: 4 Hours.
Intended for elementary and middle school teachers, this course is an introduction to informational, or nonfiction children's literature. Students will explore the importance of including informational literature in the curriculum, how to select informational children's literature, and methods for teaching with informational text and for helping children learn from informational text. Prerequisite: CI 467, or equivalent children's literature course; CI 475 and CI 476, or equivalent methods course in reading and language arts.

CI 586  Topics in Digital Studies  credit: 4 Hours.
Same as ENGL 586. See ENGL 586.

CI 587  Multicultural Literature K-12  credit: 4 Hours.
This course focuses on the meaning, function, and value of multicultural/multiethnic literature in teaching and learning. Through readings, dialogue, and research, students will focus on rewards of teaching and reading multiculturally that make it worth any effort involved. Blending multicultural theory and research, literary study, and educational practice, this course is appropriate for graduate students in education, library science, and English literature and for any other graduate student interested in the role of literature in our culturally diverse society. Prerequisite: A college literature course taken as part of an approved teacher certification program, college literature course in English literature, or consent of instructor.

CI 590  Sem for Adv Stu of Education  credit: 0 to 8 Hours.
Approved for both letter and S/U grading. Prerequisite: Admission to doctoral study.

CI 591  Field Study & Thesis Seminar  credit: 4 to 8 Hours.
Assists doctoral candidates in planning field studies and thesis problems. Students are expected to present their studies at each of four stages: (1) the inception, delimitation, tentative design stage; (2) the proposed design stage; (3) the revised design stage; and (4) the final design stage. Students are expected to analyze critically all presentations. Prerequisite: Admission to doctoral study.

CI 592  Ed.D. Proseminar  credit: 2 Hours.
Course covers various topics related to research in practice and critical reading of research in the field of curriculum and instruction. May be repeated to a maximum of 6 hours in separate terms. Prerequisite: Ed.D. students.

CI 595  Independent Study  credit: 2 or 4 Hours.
Offers opportunity and challenge of self-directive, independent study; develops the individual's ability as an independent student, and enables the student to pursue needed study in a field in which appropriate courses are not being offered during a given term. May be repeated to a maximum of 8 hours with approval. Prerequisite: Approval of study outline by adviser and the department chairperson prior to enrollment.

CI 599  Thesis Research  credit: 0 to 16 Hours.
Individual direction of research and thesis writing. Approved for S/U grading only. May be repeated.