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### Curriculum and Instruction

The School of Education offers three graduate degree programs in Curriculum and Instruction: the Master of Science in Education (M.S.Ed.) in Curriculum and Instruction, the Master in Teaching in Curriculum and Instruction Secondary Education (M.A.T.) and the Doctor of Philosophy (Ph.D.) in Education - Curriculum and Instruction. Those pursuing the M.S.Ed. must select either one of the program areas in Curriculum and Instruction or the concentration in Learning Systems Design and Technology. Those pursuing the Ph.D. must select from one of the following program areas: curriculum, instruction, and assessment; human development and family studies; language, literacies, and culture; STEM education; or teacher leadership.

### Endorsements

The School of Education also offers State of Illinois endorsements as reading teachers and K-12 reading specialists. Endorsement opportunities are available to M.S.Ed. in Curriculum and Instruction and Ph.D. in Education - Curriculum and Instruction candidates as part of their specialty area preparation. Endorsements in specific secondary level courses (e.g., chemistry, physics, and psychology) are also available. All such endorsements are arranged through the state and may require additional course work as well as a state-level transcript analysis.

### Admission

Applicants for graduate programs must submit admission forms for both the Graduate School and the School of Education. General requirements for admission to graduate programs are provided by the Graduate School. A selection and review committee in the School of Education also screens applicants on the basis of prior undergraduate and graduate work, grade point average, as well as standardized test scores, work experience, and letters of recommendation as needed. The committee may recommend admission for candidates with specific academic deficiencies if, in its opinion, a candidate's application materials demonstrate unusual professional promise.

Application materials may be obtained by addressing a request to: Coordinator of Graduate Studies, Curriculum and Instruction, Mail Code 4610, Southern Illinois University, 625 Wham Drive, Carbondale, IL 62901. Specific information may be obtained by calling 618-536-2441 or by emailing [currinst@siu.edu](mailto:currinst@siu.edu). All programs require a nonrefundable \$65 application fee that must be submitted with the application for Admission to Graduate Study in Curriculum and Instruction. Applicants must pay this fee by credit card.

### Master of Science in Education (M.S.Ed.) in Curriculum and Instruction

The Master of Science in Education degree in Curriculum and Instruction requires the completion of a minimum of 36 credit hours of course work. At least 50% of the required credit hours must be at the 500 level. The student must also meet Curriculum and Instruction core course requirements, research requirements, and elective requirements. No more than six credit hours earned at another institution may be accepted toward this degree. It is recommended that transfer courses be from institutions accredited by national organizations (i.e., CAEP, NCATE, or TEAC). All transfer credit hours must be approved by the coordinator of graduate studies.

Each candidate's program is planned in consultation with a faculty adviser with consideration for the student's interests, experience, and specialty area. Nondeclared graduate students are advised to consult

with the School of Education Director of Graduate Programs concerning admission to the M.S.Ed. in Curriculum and Instruction program.

## **Admission and Retention**

Admission to the M.S.Ed. in Curriculum and Instruction program requires a 2.7 GPA for the last 60 credit hours of the bachelor's degree. A TOEFL score of at least 550 (220 computerized score) is also required for international students and must be no more than two years old. Students must maintain an overall 3.0 graduate GPA to be retained in the M.S.Ed. in Curriculum and Instruction program. The progress of each student is reviewed periodically. Students who do not make satisfactory progress, or who violate the regulations of the program, school, or university may be dropped from the program.

## **Program Requirements**

The M.S.Ed. in Curriculum and Instruction requires a professional core of 21 credit hours and five elective courses in a focus area. The professional core consists of CI 500, Research Methods in Education; CI 503, Introduction to the Curriculum; and CI 504, Systematic Approaches to Instruction; CI 514, Advanced Human Development and Learning; CI 519, Cultural Diversity in Education; CI 544, Action Research; and CI 594, Practicum. All professional core courses must be completed with a grade of C or better, and an overall grade point average of 3.0 must be obtained for the professional core. Options for electives vary, depending on the student's professional interests, but must be approved by the student's academic advisor.

## **Master of Arts in Teaching (M.A.T.) in Curriculum Instruction Secondary Education**

SIU's Master of Arts in Teaching (M.A.T.) in Curriculum Instruction Secondary Education program is a degree program intended for persons who have successfully completed an undergraduate degree (Bachelor of Arts, Bachelor of Science, or Bachelor of Fine Arts) in the liberal arts or sciences and desire to pursue licensure for teaching at the secondary school level. Those enrolled engage in a year-long internship (two semesters) in a public school setting while also completing University-based studies culminating in the Master's degree. The M.A.T. in Curriculum Instruction Secondary Education is designed as a high-quality, technology-rich, accelerated teacher license program; time-to-degree is approximately fifteen (15) months, including one full academic year and two adjacent or contiguous summer sessions of course work. Those holding undergraduate degrees in teacher education are ineligible for this program.

M.A.T. in Curriculum Instruction Secondary Education candidates select a subject area most compatible with coursework in the major content area that was completed during a bachelor's degree program. Secondary subject area options include:

- Agriculture
- English Language Arts
- Mathematics
- Science-Biology
- Science-Chemistry
- Social Science-History
- World Language-Spanish

Upon graduation from the program, candidates will be licensed to teach in a school system in Illinois or in a state offering reciprocity. They will be broadly prepared in their content areas and will possess leadership experience pertinent to the public school setting. M.A.T. in Curriculum Instruction Secondary Education candidates advance through the program as members of an interdisciplinary cohort of no more than 25 students and are required to work collaboratively within that cohort to investigate and make recommendations about school-based programs and issues using action research methodologies.

## Admission

Admission to the M.A.T. in Curriculum Instruction Secondary Education program is highly competitive. Applicants with undergraduate content area backgrounds in areas currently experiencing national teacher shortages will receive priority in admission decisions, but other applicants meeting admission requirements will be considered. In addition to materials required for general admission to the School of Education and the Graduate School, M.A.T. in Curriculum Instruction Secondary Education applicants must submit: (1) a résumé; (2) original letters of reference from two persons familiar with the candidate's undergraduate performance or who can comment specifically about the candidate's ability to succeed in an accelerated graduate-level degree program; (3) an overall undergraduate grade point average of 2.75 (based on a 4.00 scale). In the case of graduate students who have completed 12 or more credit hours of graduate level course work, the graduate GPA is used, and it must meet or exceed 3.00 (based on a 4.00 scale).

M.A.T. in Curriculum Instruction Secondary Education Admissions Committee members consider a candidate's undergraduate major, past performance in the content area for which licensure is sought, performance in other relevant course work, professional experience, strength of recommendations, test results, and any available anecdotal information in prioritizing candidates for acceptance to the program. In years where the number of qualified candidates exceeds the program's capacity to handle projected enrollment numbers, candidates may be asked to attend an interview for use in making final selection decisions. When space is available in any cohort, non-declared graduate students may be permitted to enroll in M.A.T. in Curriculum Instruction Secondary Education courses offered during summer 1; continued enrollment in M.A.T. in Curriculum Instruction Secondary Education related course work as a non-declared graduate student, however, is contingent on meeting or exceeding published admission criteria and obtaining full admission status. Contingent enrollment may be offered by the M.A.T. in Curriculum Instruction Secondary Education Admissions Committee in extenuating circumstances but is not guaranteed and does not constitute a promise of admission to the M.A.T. in Curriculum Instruction Secondary Education program.

## Retention and Graduation

Students in the M.A.T. in Curriculum Instruction Secondary Education program are expected to complete the degree in two intersession/summer terms and one academic year, although variations in this progression are occasionally necessary. To complete degree requirements within the normal 15 months sequence, candidates enroll in blocks of courses with the following suggested sequence. The candidate must complete the appropriate state content test and the edTPA or equivalent state licensure requirements.

### Intersession 1:

- CI 543: Fundamentals of Teaching and Learning (3 CH)

### Summer 1:

- CI 500: Introduction to Research Methods in Education (3 CH)
- SPED 408: Characteristics and Methods for Teaching Exceptional Children (3 CH)
- CI 561: Literacy Instruction for Secondary and Adult Education (3 CH)

### Fall:

- CI 544: Action Research Methods (3 CH)
- CI 545: Literacy Instruction for Culturally and Linguistically Diverse Students (3 CH)
- EDUC 500: Clinical Experiences in Teaching (3 CH)
- Content area Methods (3-6 CH)<sup>1</sup>
- Content Area Elective (3-4 CH)<sup>1</sup>

### Spring:

- EDUC 501: M.A.T. Graduate Student Teaching (6 CH)

- Content Area Elective (3 CH)<sup>1</sup>

### **Intersession 2:**

- CI 571: Secondary School Curriculum (3 CH)

### **Summer 2:**

- CI 574: Advanced Teaching Methods (3 CH)
- CI 533: Instructional Leadership (Teacher Leadership) (3 CH)
- CI 549: New Literacies & Emerging Technologies in a Participatory Culture (3 CH)

To remain in the program, M.A.T. in Curriculum Instruction Secondary Education candidates must maintain in a minimum overall grade point average of 3.00 and obtain successful summative evaluations at the completion of EDUC 500 and EDUC 501. To graduate, the candidate must: (1) prepare and share publicly a professional portfolio to demonstrate professional growth throughout the degree program; (2) achieve the equivalent of a 3.00 GPA in EDUC 500 and EDUC 501; and (3) successfully complete the edTPA or equivalent state licensure requirements.

<sup>1</sup>Content area methods and elective courses vary by area of concentration and credit hour assignment and must be approved by the M.A.T. in Curriculum Instruction Secondary Education Coordinator. In addition, they may or may not carry graduate credit, but are required for program completion and licensure.

## **Doctor of Philosophy (Ph.D.) in Education - Curriculum and Instruction**

The Doctor of Philosophy in Education degree in Education - Curriculum and Instruction is designed for teachers and other educational personnel who seek to improve their performance in general and specialized areas in either the public schools or the private sector. This program is designed for students who desire positions requiring advanced preparation at the highest level with emphasis on theories of curriculum and instruction and in-depth preparation in research. For example, this program is oriented toward students who aspire to positions with institutions of higher education, state departments of education in the United States, ministries of education in foreign countries, educational sections of human service agencies, business and industry, and public schools.

### **Admission**

In addition to the application for admission to the Graduate School, the applicant must also complete the school application for admission to the concentration and the related program area. A selection and review committee screens the applicant on the basis of prior graduate work, grade point average, standardized test scores (Graduate Record Examination), research ability, work experience, and letters of recommendation. A TOEFL score of at least 550 is required for international students and must be no more than two years old. The GRE score must be no more than five years old. The selection committee recommends admission of the student only if the program area has a faculty member who is qualified to direct dissertations and who agrees to serve as chair of the student's doctoral committee.

The admissions committee may possibly recommend a student for admission who shows some deviation from program standards if, in the committee's opinion, the student shows unusual professional promise.

### **Retention**

Any prospective doctoral candidate with a grade point average of less than 3.25 and 20 credit hours of doctoral work will not be allowed to continue in the program and will not be re-admitted at a later date. Students must accumulate an overall grade point average of 3.50 for all doctoral work to qualify to take the preliminary examination.

Prior to the completion of 30 credit hours of course work, students meet with their major professors to determine whether or not to continue as doctoral students. Such matters as grade point average,

progress in the program, course completion, motivation, general academic scholarship, and skills in writing and research are considered. A report is then made to the doctoral committee and the school. Students who are not making satisfactory progress or who violate the regulations of the program, college, or university, may be dropped from the program.

## **Program Requirements**

The concentration in Curriculum and Instruction has requirements at the school and program level. A minimum of 72 credit hours beyond the master's degree is required. The School of Education professional core of at least six credit hours consists of EDUC 510, Introduction to Doctoral Studies in Education, and either EDUC 511, Doctoral Seminar in Philosophical and Cultural Foundations of Education, or EDUC 512, Doctoral Seminar in Behavioral and Cognitive Foundations of Education.

The Curriculum and Instruction requirements include a core of nine credit hours; at least 24 credit hours in the selected program area; research tools totaling at least nine credit hours; and a minimum of 24 credit hours of dissertation. An internship of two to eight credit hours is highly recommended. Courses comprising program area credit hours other than the core courses are determined by the student and the doctoral committee. No more than six credit hours earned at another institution may be accepted toward this degree. It is recommended that transfer courses be from institutions accredited by national organizations (i.e., CAEP, NCATE, or TEAC). All transfer credits must be approved by the coordinator of the student's program area. The professional core of courses in the Curriculum and Instruction concentration includes: CI 582, Advanced Research Methods in Education; CI 583, Instructional Theory, Principles, and Practices; and CI 584, Curriculum Theory, Foundations, and Principles. All professional core courses must be completed with a grade of C or better, and an overall grade point average of 3.0 must be obtained for the professional core.

## **Research Requirements**

The Ph.D. in Education - Curriculum and Instruction is a research-oriented degree. Each doctoral student in education must successfully complete three credit hours of Introduction to Qualitative Research (EAHE 587) and three credit hours of Introduction to Quantitative Research in Education (EDUC 505). In addition, each student must complete a minimum of one other three-credit-hour course on research methods (also referred to as "research tool"). Students with previous coursework in introductory research methods can petition to replace these introductory courses with higher-level research methodology coursework. A list of approved research tool courses for the Ph.D. in Education - Curriculum and Instruction degree is available in the *Ph.D. Policies and Procedures Manual of the School of Education*.

## **Preliminary Examination**

The preparation and direction of the preliminary examination are the responsibility of the program area faculty and the student's doctoral committee. Concepts related to curriculum, instruction, and research/evaluation will be integrated into the preliminary examination. Additional oral and written examinations may be required by the student's doctoral committee.

The examination is offered at least 2 times a year: during the fifth week of the term, as decided by the program area. A student may take the examination no more than 3 times.

## **Prospectus, Dissertation, and Final Oral Examination**

Students may not register for more than 6 dissertation credit hours until they have been advanced to candidacy. Having been admitted to candidacy, students submit prospectuses to their doctoral committees for approval. The dissertation must show high attainment in an independent, original, scholarly, and creative effort. A student's dissertation will be circulated to members of the doctoral committee at least two weeks in advance of the proposed defense.

The Curriculum and Instruction program requires an oral examination conducted by the doctoral committee. Oral examinations are open to all interested observers. Notice of the time and place of the examination and the abstract of the dissertation are circulated throughout the program and the School.

# Certificate in Gerontology

The Curriculum and Instruction program offers courses that satisfy the requirements in the Certificate in Gerontology interdisciplinary program. For more information on the Certificate program, please see the [Post-Baccalaureate Certificate Programs](#) tab.

## Curriculum and Instruction Courses

**CI401 - Designing Digital Games and Simulations** This course focuses on the design and development of simulated environments (such as digital games and virtual worlds) and how they may be used for the delivery of online learning and instruction. The production process will focus on the use of suitable technologies and game development toolkits to create immediately usable prototypes for learning showcases. Credit Hours: 3

**CI405A - Infant and Toddler Development** This course is designed to be an overview of theoretical and research-based understandings of infant development. Principles of development as well as dynamics of human behavior and relations will be explored. A topical approach is taken to allow the understanding of how broad concepts of development apply to infant development. Application of developmental knowledge involved for working with infants and toddlers. Students are required to have concurrent enrollment in CI 405B. Prerequisites: C or better in EDUC 214, CI 217, CI 318A and CI 318B. Credit Hours: 3

**CI405B - Infant and Toddler Practicum** This practicum will prepare students to conceptualize and implement optimal learning environments for infants and toddlers. Participation is one half day per week (fall and spring) or two half days per week (summer). Students are required to have concurrent enrollment in CI 405A. Prerequisites: C or better in EDUC 214, CI 217, CI 318A, and CI 318B. Credit Hours: 1

**CI407C - Diagnostic Teaching Strategies for Classroom Teachers-Language Arts** Diagnostic instruments and teaching techniques with an emphasis on understanding and teaching students underachieving. Prerequisite: CI 423 or consent of instructor. Credit Hours: 3

**CI407E - Diagnostic Teaching Strategies for Classroom Teachers-Mathematics** Diagnostic instruments and teaching techniques with an emphasis on understanding and teaching students underachieving. Prerequisite: CI 322 or consent of instructor. Credit Hours: 3

**CI407F - Diagnostic Teaching Strategies for Classroom Teachers-Reading** Diagnostic instruments and teaching techniques with an emphasis on understanding and teaching students who are underachieving. Prerequisite: CI 432 and CI 433 with grades of C or better or consent of instructor. Credit Hours: 3

**CI408 - Current Issues in Early Intervention** This course will examine developmental ecology of early intervention and the dynamic processes by which children and their environments interact. A comprehensive overview of the knowledge base and critical assessment and implementation strategies of early childhood intervention along with intervention models and appropriate practice will be covered. Prerequisites: CI 237, SPED 405 or consent of instructor. Credit Hours: 3

**CI409 - Curriculum Planning and Assessment in the Arts** A graduate-level course designed to explore curriculum development for the visual and performing arts (e.g., drama, painting, drawing) and assessment strategies for the elementary and middle school level. Credit Hours: 1-3

**CI410 - Creative Writing in the Public School** Techniques of encouraging creative writings in the schools. Credit Hours: 2

**CI412C - Improvement of Instruction in Early Childhood Education (Preschool-Grade 3)-Language Arts** Examines recent findings, current practices, and materials used in early childhood education. Prerequisite: specialized methods course for the field of study selected by the student. Credit Hours: 3

**CI412D - Improvement of Instruction in Early Childhood Education (Preschool-Grade 3)-Science** Examines recent findings, current practices, and materials used in early childhood education. Prerequisite: specialized methods course for the field of study selected by the student. Credit Hours: 3

**CI412E - Improvement of Instruction in Early Childhood Education (Preschool-Grade 3)-Mathematics** Examines recent findings, current practices, and materials used in early childhood education. Prerequisite: specialized methods course for the field of study selected by the student. Credit Hours: 3

**CI412F - Improvement of Instruction in Early Childhood Education (Preschool-Grade 3)-Reading** Examines recent findings, current practices, and materials used in early childhood education. Prerequisite: specialized methods course for the field of study selected by the student. Credit Hours: 3

**CI412G - Improvement of Instruction in Early Childhood Education (Preschool-Grade 3)-Social Studies** Examines recent findings, current practices, and materials used in early childhood education. Prerequisite: specialized methods course for the field of study selected by the student. Credit Hours: 3

**CI415 - Teaching Middle School Mathematics [Grades 4-8]** Examines current approaches to middle school mathematics and the use of meaningful instructional materials, quantitative literacy, and technologies for problem solving. Students will share experiences and design activities for classroom use. Prerequisite: CI 322 and an overall GPA of at least 2.75, or consent of instructor. Credit Hours: 3

**CI417 - Administration of Early Childhood and Family Programs** This course introduces students to the planning, organizing and daily management of programs serving young children and their families. Topics will include funding/budgeting, staffing, programming, and evaluation. Prerequisite: CI 318. Credit Hours: 3

**CI419 - Child, Family, and Community Engagement** This course is designed to provide students with the knowledge and skills needed to work successfully with families and caregivers in individual and community settings. The focus will be on strengthening relationships within and between home, school and community settings. Family engagement in early childhood programs and elementary schools will be stressed. Co-requisite: EDUC 319. Credit Hours: 3

**CI421 - Family Literacy Programs, Policies, and Practices** This course offers an in-depth look at family literacy programs, policies, and practices. The course adopts a sociocultural underpinning to explore how family literacy can contribute to the literacy growth of families and re-center parents as their children's first teachers. Topics include family diversity and funds of knowledge, the basic components of family literacy programs, opportunities for literacy learning, professional development and program improvement, and advocacy. Participants will gain an understanding of family literacy in historical, educational, social, and political contexts. Credit Hours: 3

**CI422 - Teaching Reading in the Elementary School** Examination of the reading process with emphasis on the factors and conditions that affect reading. Emphasis also on the formulation of a philosophy of reading and its implications in relation to methods, materials, organizational procedures, and evaluation techniques. Enrollment restricted to consent of department. Credit Hours: 3

**CI423 - Teaching Elementary School English Language Arts** This course covers the oral and written communication processes with emphasis on the English language arts in the elementary school. Focus on the fundamentals of academic and social language of all users of English. Effective planning, delivery, and assessment of literacy lessons align with the Illinois Common Core learning standards for writing, speaking and listening, and reading and that accommodate all learners in the elementary classroom, including English Language Learners (ELL) and students with Individualized Education Programs (IEP). Prerequisite: Communication Studies 101 or equivalent, C or better in CI 321 and CI 435, or consent of instructor. Note: Elementary Education majors must take CI 422 concurrently with this class. Credit Hours: 3

**CI426 - An Introduction to Teaching Elementary School Science (PreK-4th Grade)** Content and methods of elementary school science, grades P-4. Emphasis on materials and strategies for effective science education. One or more field trips. Prerequisites: SCI 210A, and SCI 210B. Restricted to students already admitted to the Teacher Education Program. Credit Hours: 3

**CI427 - Science Process and Concepts for Teachers (4th-8th Grade)** Specifically designed to develop those cognitive processes and concepts needed by elementary and middle level teachers in the teaching of modern science programs. Prerequisite: CI 426, SCI 210A, and SCI 210B. Credit Hours: 3

**CI428 - Inquiry Skills for Teaching Junior and Senior High School Science** The major focus will be the application of inquiry skills as used in all areas of science instruction at the junior and senior high school levels; students will be expected to demonstrate mastery of basic and integrated science process skills through conducting and reporting results of science investigations. Credit Hours: 3

**CI429 - Instructional Methods for the Primary Child: Social Studies and Science** Emphasis on creating optimum learning environments, planning for instruction, models of teaching, integrated learning and appropriate instructional methods in science and social sciences, grades 1-3. Concurrent enrollment in CI 430 required. Prerequisites: CI 318A,B, CI 324, or consent of instructor. Credit Hours: 3

**CI430 - Instructional Strategies for the Primary Child: Mathematics** Emphasis on creating optimum learning environments, integrated learning and appropriate instructional methods in the content area of mathematics, grades 1-3. Concurrent enrollment in CI 429 required. Prerequisite: CI 318A,B, CI 324, with grades of C or better, or consent of instructor. Credit Hours: 3

**CI431 - Literacy Foundations and Instructional Models** This course provides teacher candidates with the theoretical knowledge necessary to critically examine various models of literacy instruction. It introduces the reading process, including the relationship between reading, writing, listening, and speaking; the importance of differentiating instruction for all learners; and how to select appropriate literature for use in early childhood, elementary, and middle level classrooms. Co-requisites: EDUC 301 and EDUC 313. Restricted to students already admitted to the Teacher Education Program. Credit Hours: 3

**CI432 - Literacy Development and Assessment (PreK-4th Grade)** This course explores the variables that affect literacy development at the P-4 level. Teacher candidates will learn to employ all four strands of the English/language arts (reading, writing, speaking, and listening) to teach literacy concepts and strategies across the curriculum to accommodate all learners in culturally responsive classrooms. Emphasis will be placed on an understanding of the reading and writing process; the content of literacy instruction; and scientifically based literacy research, methods, and materials used in balanced reading instruction and assessment. Prerequisite: CI 431. Co-requisite: EDUC 302 and EDUC 319. Credit Hours: 3

**CI433 - Instruction and Assessment of Adolescent Literacy** This course explores the variables that affect literacy development at the middle level (4th-8th grade). Emphasis will be placed on an understanding of the reading and writing process; the content of literacy instruction; and scientifically based literacy research, methods, and materials used in balanced literacy instruction and assessment. There is a focus on language and literacy demands within the content areas, needs of culturally and linguistically diverse adolescent learners, and the identification of adolescents who have literacy challenges. Prerequisite: CI 432. Co-requisite: EDUC 303 and EDUC 308. Credit Hours: 3

**CI434 - Diagnostic Literacy Assessment and Intervention** This course surveys the principles and practices of literacy assessment. Teacher candidates examine diagnostic approaches and instructional strategies that teachers employ when working with individuals who struggle with learning to read and write. There is an emphasis on the causes of reading and writing difficulties and the contribution of factors such as cultural differences, linguistic variation, student motivation, various disabilities, and instructional approaches. It focuses on diagnostic techniques and the use of dynamic assessment to inform the design, monitoring, and evaluation of literacy instruction. Prerequisite: CI 432. Co-requisites: EDUC 303 and EDUC 308. Credit Hours: 3

**CI435 - Literature and Informational Texts for Children and Early Adolescents** Students will engage with studies of various types of literature and informational texts as well as text exemplars from the common core initiative; analysis of literary qualities; selection of literature for various developmental needs of children in preschool, elementary school, and middle level settings; and research-based presentations of books and other media for use in various school settings. Prerequisite: C or better in English 101 and 102, and overall GPA of 2.75; or consent of instructor. Restriction: Admittance to the Teacher Education Program. Lab fee: \$10. Credit Hours: 3



**CI462 - Middle and Junior High School Programs** Focuses on the development of middle and junior high school curriculum and the identification of instructional activities for early adolescents. Emphasis is placed on development of literacy strategies, developmentally appropriate teaching strategies, interdisciplinary unit planning, teaming, and technologies and materials appropriate for teaching early adolescents, ages 10-14. Prerequisite: EDUC 313 or consent of instructor. Credit Hours: 3

**CI463 - Meeting the Social and Emotional Needs of Gifted Children** Deals with strategies for meeting the social and emotional needs of gifted children in the classroom. In particular, this course focuses on low-incidence gifted students, including underachievers, minorities and females. The course will not only cover particular curriculum and instruction strategies designed for this population and will emphasize strategies for teachers to be more facilitative in assisting these students to accept and realize their potential. Prerequisite: CI 467 or consent of instructor. Credit Hours: 3

**CI466 - Documenting Accomplished Teaching** This course will help teachers understand and gain requisite skills for participation in the National Board for Professional Teaching Standards (NBPTS) certification process. As part of learning to understand and document NBPTS standards, teachers will describe, analyze and reflect on drafts of written commentaries, videotapes of small and large group lessons, and student work. Credit Hours: 3

**CI467 - Methods and Materials in the Education of the Gifted** Content focused on the most appropriate instructional strategies and materials to be utilized with the gifted. Time spent practicing teaching models, designing materials and developing teaching units. Emphasis placed on techniques for individualizing instruction for the gifted and talented students. Credit Hours: 3

**CI468 - Science Methods for Middle and Senior High Schools** A performance-based approach to instructional skills common to teaching natural science at the middle and senior high school levels. Three class hours and one micro teaching laboratory hour per week. Credit Hours: 3

**CI469 - Teaching Social Sciences in the Secondary School [6-12]** Emphasis is placed on the analysis and evaluation of the social sciences with focus on instructional strategies and curricular designs in the teaching of history, geography, political science, economics, and sociology, as well as content reading for the social sciences. Prerequisite: EDUC 313 or consent of instructor. Credit Hours: 3

**CI473 - Teaching in Middle Level Schools** Acquaints students with issues of teaching young adolescents and the role of teachers in connecting schools with community resources. Information from current area specialists and exemplary practitioners extend appropriate teaching strategies and supplement background knowledge on special topics related to social, emotional and physical development related to the curriculum. Prerequisite: CI 462, EDUC 313, or consent of instructor. Lab fee: \$10. Credit Hours: 3

**CI493 - Writing for Research and Publication** The course covers the current American Psychological Association (APA) guidelines (required by the Curriculum and Instruction department for all writing, including theses and dissertations) for reporting and writing reports, annotated bibliographies, and reviews of literature. Participants will read, critique, write, and present four short (5-10 pages each) scholarly research results and/or scholarly reviews of literature. The course will emphasize professional vocabulary, format, and writing style. Participants will write final, detailed and thorough literature reviews using APA format and style in their fields of study. This course has been recommended by the CI Graduate Faculty for all CI graduate students, especially those who are early in their programs. Instructor approval required for undergraduates. Credit Hours: 3

**CI496 - Field Study Abroad** Orientation and study before travel, readings, reports, and planned travel. Includes visits to cultural and educational institutions. Maximum credit hours in any term are 4. Credit Hours: 2-4

**CI498B - Workshops in Education-Supervision for Instructional Improvement** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498C - Workshops in Education-Language Arts** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498D - Workshops in Education-Science** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498E - Workshops in Education-Mathematics** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498F - Workshops in Education-Reading** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498G - Workshops in Education-Social Studies** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498H - Workshops in Education-Early Childhood Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498I - Workshops in Education-Elementary Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498J - Workshops in Education-The Middle School** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498K - Workshops in Education-Secondary Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498M - Workshops in Education-Instruction** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498N - Workshops in Education-Educational Technology** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498O - Workshops in Education-Environmental Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498P - Workshops in Education-Children's Literature** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498Q - Workshops in Education-Family Studies** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498S - Workshops in Education-Gifted and Talented Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI498T - Workshops in Education-Teacher Education** Critical evaluation of innovative programs and practices. Acquaints teachers within a single school system or in a closely associated cluster of school systems with the philosophical and psychological considerations and methods of implementation of new programs and practices. Maximum of six hours toward a master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI500 - Introduction to Research Methods in Education** The student will evaluate and synthesize research, demonstrate a basic understanding of research concepts and principles, and compare and contrast specific methods for conducting research. Credit Hours: 3

**CI501 - Literacy Leadership for Education Professionals** The course prepares education professionals to become literacy leaders and agents of change in school and community settings. CI 501 focuses on the historical perspectives of literacy instruction, research, and scholarship; pedagogical models; evaluation of curriculum, materials, and programs, and the knowledge to design, implement, lead, and evaluate effective professional development programs. Restricted to consent of instructor. Credit Hours: 3

**CI502 - Child Maltreatment** Examines the many facets of child maltreatment including the impact on the child's development, the family dynamics and the communities' role. Emphasis is on current research in the field, as well as the roles and responsibilities of various professionals who work with children and their families. Credit Hours: 3

**CI503 - Introduction to the Curriculum** Deals with the nature, purposes and functions of curriculum planning and development; curriculum design and organization; curriculum implementation and maintenance; and curriculum evaluation as each component relates to the total curriculum. Credit Hours: 3

**CI504 - Systematic Approaches to Instruction** Gives graduate students an opportunity to investigate, discuss and apply systematic approaches to instruction. Special emphasis is given to that element of the instructional system, that allows for the integration of instructional media into the process. Credit Hours: 3

**CI505 - Infant/Toddler Development** This course is designed to be an overview of theoretical and research-based understandings of infant development. Principles of development as well as dynamics of human behavior and relations will be explored. A topical approach is taken to allow the understanding of how broad concepts of development apply to infant development. Credit Hours: 3

**CI506 - Professional Services for Diverse Family Structures** Case analysis of different family structures through seminar teams. Each team will be responsible for analysis of the interaction of the family structure and the economic, nutritional, and socializing activities carried out within the family-household. Role and sources of assistance through current programs will be included. Special approval needed from the instructor. Credit Hours: 3

**CI507 - The Impact of Public Policy on Family Life** This course focuses on an analysis of policies that impact the lives of children and families and includes an overview of the legislative process at the local, state, and national levels. The course emphasizes practical ways in which we can become proactive and effective advocates for children and their families. Credit Hours: 3

**CI508 - Systematic Observation and Analysis of Instruction** Students will learn to use conferencing techniques and to construct and use valid and reliable systematic observation instruments to provide the basis for analysis and feedback about classroom instruction. Credit Hours: 3

**CI509 - Foundations of Environmental Education** Designed specifically to provide teachers, administrators and curriculum specialists with the knowledge and skills necessary to implement environmental education strategies in both elementary and middle schools. Includes work in ecological foundations, programs currently in use, unit designs, methods and research. One or two field trips may be required. Credit Hours: 3

**CI512 - Literacy Instruction and Assessment in Elementary and Middle School** Examines literacy as a developmental process. The course introduces students to best practices for instruction and assessment in elementary and middle level classrooms. Attention given to language and literacy demands in the content area as well as cultural and linguistic diversity in elementary and middle level classrooms. Restricted to admission to program or consent of instructor. Credit Hours: 3

**CI513 - Emergent Literacy** A study of early literacy. Explores the foundations of family literacy as the basis for continued development of reading and writing in kindergarten and the primary grades. Credit Hours: 3

**CI514 - Advanced Human Development & Learning** A graduate-level course designed to explore the theories that guide understanding about human development and learning. Overall goal is to understand how theories guide our understanding of development and learning and apply them to different contexts and development over the life-span. Students will learn how to take an analytical approach to their study of individuals and to translate this analysis into work with children and adults. Credit Hours: 3

**CI515 - Advanced Remediation in Mathematics** Strategies for the design of prescribed systematic instruction for correcting identified mathematics difficulties. Experience in designing and preparing materials for corrective purposes. Prerequisite: CI 407E or consent of instructor. Credit Hours: 3

**CI516 - Teaching Mathematics in the Elementary School** Master's degree level course, which acquaints the student with approaches to teaching, development of curriculum materials and authoritative positions on the mathematics of grades K-8. Emphasis on teaching aids, problem solving and recent developments at this level. Credit Hours: 3

**CI517 - Early Childhood Programs: Organization and Administration** Presents an overview of the organization and administration of programs for children ages three to eight with experiences in planning for operating and administering such programs. Prerequisite: CI 518 or consent of instructor. Credit Hours: 3

**CI518 - Critical Issues in Early Childhood** A survey of current problems and practices in early childhood education for children from three to eight years of age, with emphasis on reading in current research literature. Special approval needed from the instructor. Credit Hours: 3

**CI519 - The Study of Cultural Diversity in Education and Family Services** The student examines origins, characteristics of behavior, learning patterns, family constellations, and lifestyles of the diverse

cultural groups in our community, state, and nation. Students will identify their own cultural background and biases; recognize diversity resulting from ethnic origin, gender, age, or disability; and experience ways of learning about cultures other than their own that promote constructive communication and integration into all aspects of schooling, teaching, and family services. Credit Hours: 3

**CI520 - Action Research in Early Childhood** (Same as CI 544) Major trends and current issues in research as they relate to child development and early childhood programs will be explored. Special emphasis will be placed on the relationship of research to professional preparation and practice. Restricted to early childhood students who have taken all core courses for completion of the master's degree. Letter grade/DEF. Credit Hours: 3

**CI521 - Advanced Diagnostic Teaching of Reading** Emphasizes diagnostic teaching strategies that teachers and reading specialists employ when dealing with under achievement in reading. Students use informal and formal tests, observation and trial lessons to select instructional materials and activities appropriate to different reading/writing problems. Each student tutors persons while being supervised in the Clinical Center. Prerequisite: CI 512 or CI 513 or CI 561, CI 407F. Special approval needed from the instructor. Credit Hours: 4

**CI522 - Integration of Technology in Mathematics and Science Teaching** Integrating technology in Math and Science teaching. Technology may include calculators, computer software, computer-based laboratories, data collection devices, interactive manipulatives, and other internet resources. Special approval needed from the instructor. Credit Hours: 3

**CI523 - Contemporary Language Arts** This course is designed to support candidates in developing an orientation to language arts instruction in elementary and middle level classrooms. Students will examine the theories, methods, materials, and instructional procedures for a developmental language arts program that emphasizes integration of all language arts areas. Prerequisites: CI 512, CI 561 with grades of C or better or consent of instructor. Credit Hours: 3

**CI524 - Methods and Assessments for Elementary and Middle School Social Science Curriculum**  
A study of theory and practices of teaching and assessment practices for developing curricula in the elementary and middle school social sciences. Particular attention to be given to trends and issues in social sciences. Various social science models will be examined and evaluated for practical use. Students must demonstrate competencies and skills related to disciplinary literacies for the social sciences. Credit Hours: 3

**CI525 - Integration of Technology into Mathematics Education [PreK-8]** Technology use in mathematics teaching and learning, such as handheld calculators/computers; hands-on experience in teaching with easily learned tools for teaching/learning mental computation, computation, algebra, geometry, probability, statistics and use of software - e.g., Shapemakers, Geometer's Sketchpad, Excel, graphing calculators, computer-based laboratories, data collection devices, interactive websites and other internet resources. Credit Hours: 3

**CI526 - Teaching Methods and Assessments in Elementary School Science Education** Framed by research and theory addressing trends and issues in elementary school science, students will design and implement instruction. Various methods such as inquiry and place-based education for teaching and assessing students will be emphasized. Credit Hours: 3

**CI527 - Advanced Family Studies** Examination of the major theoretical approaches and current research in family development. Review the nature and value of theory to the study of the family and evaluate the use of theory in empirical research. Implications for policy. Credit Hours: 3

**CI528 - Methods for Teaching Mathematics in the Preschool and Early Childhood Grades (Pre K-3)** Acquaints the student with the learning characteristics of children and teaching methods at grades pre K-3. Emphasis on concrete manipulative teaching aids, learning readiness and diagnosis of learning difficulties. Credit Hours: 3

**CI529 - Modern Approaches to Teaching Secondary School Mathematics** (Same as MATH 511)  
Topics will include problem solving, applications of mathematics and teaching proofs in secondary school

mathematics. Practical classroom use of materials will also be emphasized. Special approval needed from the instructor. Credit Hours: 3

**CI530 - Teaching Problem Solving in School Mathematics** Designed to acquaint teachers with problem solving processes, assessment practices, and how to integrate problem solving into their teaching. Emphasis is placed on teaching the process of problem solving and assessment. Restricted to graduate standing or consent of adviser. Credit Hours: 3

**CI531 - Curriculum for Elementary & Middle Level Schools** Designed to assist teachers and administrators in making curricular decisions for elementary and middle level schools based on knowledge of educational foundations, standards, learning experiences, research, materials and methods, instructional programming and evaluation. Credit Hours: 3

**CI533 - Instructional Leadership** A study of research and related literature concerning the roles and responsibilities of various instructional leaders in public and private schools, professional development centers, state departments of education and college or university settings. Leadership styles and behaviors, especially as they apply to the academic circumstances and environments in specific case studies, are examined. Credit Hours: 3

**CI534 - Organization of the Elementary School** An analysis of types of elementary school organizations with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to classroom teachers' professional problems. Credit Hours: 3

**CI535 - Reading and Language Arts Research Seminar** Students survey current research in Reading and Language studies and present a research paper to the seminar participants. Prerequisite: CI 500, nine hours coursework in reading and language arts. Special approval needed from the instructor. Credit Hours: 3

**CI536 - Partnerships and Mentoring the New Professional** A study of the theories, practices and research of Professional Development Schools and other collaborative teacher education and school reform initiatives with special attention given to the issues of collaboration and cooperation, team building and consensus building, honoring diversity and change, and educators as problem solvers. Credit Hours: 3

**CI537 - Current Issues in Mathematics Education** This course provides graduate students with opportunities to study, discuss, and critically analyze issues and research in mathematics education. Students will become familiar with the major problems and issues facing mathematics educators at all school levels. Examination of recent mathematics education literature will be included as students gain an overall perspective on the discipline of mathematics education. Credit Hours: 3

**CI538 - Research in Mathematics Education** This course provides graduate students with opportunities to study, discuss, and make critical analyses of recent mathematics education literature and issues in the USA and other countries. Students will gain a better perspective on NCTM Standards and their relationship to research as they develop a detailed lesson plan in mathematics and conduct both a literature review and a data analysis report in mathematics education. Prerequisite: CI 537. Credit Hours: 3

**CI539 - Leadership in Mathematics and Science** An exploration of current literature in math and science leadership and the application of principles and skills necessary for mentoring instructional development in math and science. Special approval needed from the instructor. Credit Hours: 3

**CI540 - Learning Models for Instructional Design** Surveys models of learning as they apply to the fields of Instructional Design and Instructional Technology. Models ranging from behaviorism to constructivism are covered along with theories concerning cognitive development and motivation. Theories are applied to analyzing instructional situations. Credit Hours: 3

**CI541 - Foundations of Instructional Design and Technology** This course provides students with an overview of the issues related to instructional (systems) design and technology. Historical perspectives, current practice, emerging trends, and future development in the field. Appropriate use of digital technologies (procedures) for learning and training will be discussed. Credit Hours: 3

**CI542 - Content Area and Disciplinary Literacy Instruction in Elementary and Middle School**

Course provides an exploration of the relationship between developmental literacy, content area, and disciplinary instruction. Presents an integrated approach for providing strategies to support students' literacy development while taking into account the language and literacy demands of discipline-specific learning. Exploration of various means for valuing and encouraging new literacy practices. Offers an examination of adaptations for culturally and linguistically diverse as well as exceptional learners.

Prerequisites: CI 512, CI 513, or consent of instructor. Credit Hours: 3

**CI543 - Fundamentals of Teaching and Learning** First course in the Master of Arts in Teaching (M.A.T.) program sequence. Its focus is on development of a specific set of planning skills secondary level teachers need to appropriately design, implement, manage, and assess student learning. Credit Hours: 3

**CI544 - Action Research Methods** (Same as CI 520) The focus of the course is on learning about action research, learning to develop and use various data collection tools, developing an action research question, learning about and using various data analysis tools, developing a report, and presenting a research report to an audience of colleagues and peers. Prerequisite: CI 543 (required for MAT students) or consent of instructor. Letter grade/DEF. Credit Hours: 3

**CI545 - Literacy Instruction for Culturally and Linguistically Diverse Students** This course introduces students to issues related to first- and second-language development, language variation, cultural diversity, second-language instruction, English as a Second Language (ESL) and bilingual education, and culturally and linguistically responsive instruction. These topics will be explored in terms of student learning and teaching and prepare students to teach English language learners (ELLs), dialect speakers, and students from diverse cultural and linguistic backgrounds. The course will serve as an examination of contemporary language acquisition theory; overview of ELL reading research; exploration of methods for motivating and sheltering instruction for ELLs; and investigation of the impact of federal policies on the types of experiences ELLs are afforded. The course is required for students working toward the reading specialist endorsement. Credit Hours: 3

**CI546 - Family and Community Literacies and Involvement** This course provides students with the knowledge and skills needed to work successfully with families and parent groups in individual, group, school and community settings. A socio-cultural perspective is evident as the focus will be on acknowledging and valuing the multiple literacies within families and communities, and strengthening adult-child relationships and parent-staff relationships in home, school, and community settings. An awareness of strategies in developing positive and supportive relationships with families of children, including the social, cultural, educational, health, economic, and political dimensions of community and family life, philosophical basis for family participation, family-centered services, and strategies for working with socially, culturally, and linguistically diverse families will be included. Prerequisite: CI 545. Credit Hours: 3

**CI547 - Instructional Strategies and Curriculum Development for Adult Literacy and Education**

This course focuses on understanding adult learners and related practices in diverse adult educational and community contexts. It provides a philosophical, historical, and practical framework for adult literacy learning to include a critical analysis of policies, programs, practices and assumptions about adult learners that undergird the field of adult education. The course is taught through a sociocultural lens with an emphasis on instructional practices that are relevant to the lives and literacies of adult learners. Credit Hours: 3

**CI548 - Science Education Research Investigations** This course involves the study of special problems and related research associated with practical educational situations in science education or related fields. The main objective is to provide doctoral students with opportunities to develop research skills in science education by conducting research projects on science education topics. Designed to help students learn the basics of research but not a research methods course. Credit Hours: 3

**CI549 - New Literacies & Emerging Technologies in a Participatory Culture** This course explores the changing landscape of reading and writing as emerging technologies place new demands, challenges, and opportunities before readers and writers. Drawing from a socio-cultural perspective, this course aims to deepen students' understandings of the reading and writing processes with written, hyper, and multi-modal texts as well as strategies for supporting students' development in these processes. Particular emphasis will be on acknowledging and valuing the multiple literacies evident within families,

communities, and contemporary society, and strengthening understanding of how best to support learners as they enact new literacy practices that rely upon emerging technologies. Techniques for incorporating new technologies into teaching, as well as the legal and ethical challenges for both teachers and students, will be examined. Prerequisite: CI 512, CI 513, or CI 561. Credit Hours: 3

**CI550 - Language Development in Young Children** Language and communicative development of young children is the focus of this course. Students will learn about both typical and atypical language development in the areas of phonology, syntax, morphology, semantics, and pragmatics. The relationship between language and other areas of development will be explored as will ways to support language development in young children. Students will observe, record, analyze samples of young children's communication. Credit Hours: 3

**CI551 - Assessment and Learning Using Virtual Environments** This course covers the foundations and trends in the research literature regarding the use of game, simulated and virtual environments for online learning and assessments. Issues and implications of these environments for instructional delivery, decision-making analysis of users and performance assessment methodologies are included. Credit Hours: 3

**CI552 - Foundational Readings in Education and the Social Sciences** The seminar course focuses on foundational readings in education and the social sciences. Students in the course identify, read, and discuss seminal readings that are frequently referenced in current scholarship and which have withstood argumentation and scholarly critique. Course experiences consists of intensive reading, discussions, and related injury projects. Credit Hours: 3

**CI553 - Consulting in Learning Systems Design and Technology** This course applies current research and technology to the solution of instructional problems in higher education and corporate training environments. The student is guided through the systematic process of identifying instructional and performance problems, specifying learning objectives, analyzing tasks and learners, organizing resources, specifying methods and media, and assessing outcomes. Special approval needed from the instructor. Credit Hours: 3

**CI555 - Instructional Message Design** Emphasizes the use of cognitive theory and research-based principles for creating effective instructional text, pictures, and graphics. Topics include principles of perception, memory, concept, procedure, and principle learning, mental models, problem-solving, motivation and attitude change. A review of research issues in the study of instructional media and message design is included. Credit Hours: 3

**CI557 - Task Analysis and Systematic Design of Instruction** Builds competence in applying the most current task and content analysis techniques used to make explicit the components of complex human performances and knowledge. Includes learning hierarchy analysis, information processing analysis, path analysis, job task analysis, skills analysis, fault tree analysis, concept analysis, knowledge engineering, matrix analysis, and pattern noting. Prerequisite: CI 504 or consent of instructor. Credit Hours: 3

**CI558 - Instructional Development Studio** The "Studio" environment provides students with the opportunity to learn and use authoring systems, languages and product development tools to design, develop, and produce online resources for learning and instruction. Participants will showcase learning artifacts created using a variety of commercial productivity tools and creativity suites. Prerequisite: CI 541. Credit Hours: 3

**CI559 - Advanced Instructional Development Studio** The advanced instructional development studio environment provides students who have taken the basic development studio course with further opportunities to design, develop, and produce online learning courses for learning, training, and instruction. Participants will showcase learning artifacts created using a variety of commercial authoring tools and creativity suites. Prerequisite: CI 558. Credit Hours: 3

**CI560 - Content and Learning Management Systems for e-Learning** The course covers the design and development of Content and Learning Management Systems (CMS/LMS) for the management and online delivery of learning resources in education, business and other training settings. Emphasis will be placed on the rapid development and management of e-Learning systems using CMS/LMS development tools and Web 2.0 technologies. Credit Hours: 3



**CI561 - Disciplinary and Content Area Literacy Instruction for Secondary and Adult Education**

This course is for secondary teachers and others who desire strategies to help students learn from texts. Special emphasis is on how to help students improve their ability to comprehend, study, and use texts and other print materials encountered in secondary schools and the workplace. This course focuses on theory, research, and methods to enable student engagement with texts, particularly content texts. Emphasis is on strategies for teaching vocabulary, comprehension, reasoning, and organization in specialty subject areas at the high school level, and fundamentally promotes differentiated instruction for diverse populations and the incorporation of technology. Credit Hours: 3

**CI562 - Social and Informal Learning** Covers games, simulations, role-playing, discussion forums, and social networking as informal modes of learning in both education and training contexts. Both face-to-face and online aspects of social and informal learning are considered. Credit Hours: 3

**CI563 - Instructional and Human Performance Technology** For those persons interested in the role that learning systems and instructional design and technology play in the field of human performance technology. Emphasis is upon performance problem identification, the distinction between skill/knowledge deficits and other performance problems, and the rationale for instructional solutions as well as electronic performance support systems, feedback and incentives, certification and other HP technologies. Credit Hours: 3

**CI564 - Curriculum Development for Gifted Students** Explorations of the knowledge and decision-making required to develop curriculum for gifted students, including philosophy, goals and objectives; designing and sequencing activities; curriculum models for gifted students; evaluation and modification of curriculum. Emphasis is placed on the development of curriculum to be used in schools for gifted students. Credit Hours: 3

**CI566 - Instructional Strategies for Problem Solving** The focus is on developing those teaching strategies, which will foster and enhance problem solving skills and heuristic thinking. Representative of these teaching skills would be inductive and deductive approaches, discovery and inquiry techniques, and questioning strategies. Credit Hours: 3

**CI567 - Seminar in Children's Literature** The focus of this course is the role of literature in literacy development. Emphasis on methods that support children as they learn to read using literature as a medium of instruction and interpretation that enriches and extends the curriculum. Prerequisite: CI 512, CI 513, CI 561, other foundational course, or consent of instructor. Credit Hours: 3

**CI568 - Literature for Children and Young Adults in a Multicultural Society** This course is designed to guide educators in the development of a framework from which they examine the impact of cultural, linguistic, and ethnic diversity in literature. As such, emphasis is placed on the development of a critical lens that embraces culturally sustaining practices for groups that have been traditionally underrepresented and inauthentically portrayed in texts. Entails introspection, examinations of bias, power, and privilege, and evaluation of texts. Prerequisite: CI 512 or CI 513 or CI 561, or consent of instructor. Credit Hours: 3

**CI570 - Teaching and Learning NonFiction Sources for Adolescent and Adult Learners** This graduate-level course will help students develop instructional materials and curricular designs using non-fiction resources for classrooms at the secondary level and beyond. Students will also have an opportunity to gather, analyze, corroborate, and synthesize student data for the purposes of planning instruction with an emphasis on informational sources such as written documents, images, and multimedia. Integrating technology for differentiating instruction, assessment, and content reading for the disciplines (with a specific focus on the social sciences) will also be emphasized. Credit Hours: 3

**CI571 - Secondary School Curriculum** An introductory course designed to explore the nature and development of the curriculum at the secondary school level. Historical perspective and foundations of curriculum are examined. Functional applications to the public secondary schools are emphasized. Credit Hours: 3

**CI572 - Instruction and Assessment with Primary Sources** In this course, students will have opportunities to create classroom assessments with artifacts and informational sources, analyze pupil

data to inform instruction, learn ways to differentiate instruction to support critical thinking skills, develop local history and place-based curriculum, and participate in local field-based learning. Credit Hours: 3

**CI573 - Perspectives on the Future and Its Schools** Deals with the future development of education and social trends, which will influence that development. Emphasis is placed upon alternative models of education and their social bases. Credit Hours: 3

**CI574 - Advanced Teaching Methods** This course focuses on advanced instructional models and strategies designed to improve professional practice and student achievement. Teachers analyze teaching models and methods to examine the connections between theory and practice, vary instructional methods, and explore common applications of the models. Course goals center on developing instruction that enables teachers to differentiate instruction to meet the needs of diverse learners and engage students in learning content. The course is appropriate for teachers at all levels of education. Credit Hours: 1-3

**CI575 - Critical Issues in Instructional Supervision** Students will examine the history, nature and evolution of supervision for instructional improvement. Students will be introduced to concepts, theory and research findings from many fields of study that have implications for today's supervisory process. Supervisory assumptions and practices will be examined in light of current knowledge of teaching effectiveness. Credit Hours: 3

**CI576 - Critical Issues in Teacher Education** Students will examine critical issues, problems, and trends in teacher education. Emphasis is placed on strategies for clarifying the issues, solving the problems and examining the possible impact of the trends. Credit Hours: 3

**CI577 - Seminar in International Mathematics in Education** Deals with goals, contents, teaching methods, teacher training, curriculum development and research literature on mathematics education at the international level. Restricted to graduate standing or consent of adviser. Credit Hours: 3

**CI578 - Advanced Study of Mathematics Education** Study of the practical and theoretical development of mathematics curricula and instruction, and viewing mathematics curricula and instruction from philosophical and psychological perspectives. Restricted to advanced graduate study or consent of adviser. Credit Hours: 3

**CI579 - Classic and Contemporary Literature for Young Adults** This course includes an examination of landmark and contemporary literature for young adults. Students will critically evaluate young adult literature and the implications for classroom use. Emphasis will be placed on the use of young adult literature within the framework of current standards. Prerequisites: CI 512 or CI 513 or CI 561, another foundational literacy course, or consent of instructor. Credit Hours: 3

**CI580 - Current Trends in Education** Trends, issues, problems in education related to the student, program, school organization, staff, material and media, the school building, and the process of innovation and change. Credit Hours: 3

**CI581 - Digital Video Production** Video has become an essential aspect of teaching, training, and communications. This course is an intensive workshop that provides a thorough understanding of video formats, video production, and video editing techniques. No previous experience with video production is required. Lab fee: \$20. Credit Hours: 3

**CI582 - Advanced Research Methods in Education** The study and application of advanced skills used in planning, executing, reporting, and utilizing educational research. Students must have an approved Program of Study on file prior to enrolling. Prerequisite: EAHE 587 and EDUC 505. Credit Hours: 3

**CI583 - Instructional Theory, Principles, and Practices** Presentation of conceptual formulations and skills concerning instructional theory and principles; foundations of instruction; instructional systems and models; delivery processes (logistics), systems, and maintenance of quality control; and evaluation of teachers and students. Credit Hours: 3

**CI584 - Curriculum Theory, Foundations, and Principles** The course will emphasize the study of the perspectives on curriculum theory that have guided the development of curriculum practice in the

United States. Students will critically examine these perspectives and utilize them to develop and defend positions on contemporary curriculum issues. Credit Hours: 3

**CI585A - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Curriculum. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585B - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Supervision for instructional improvement. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585C - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Language arts. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585D - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Science. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585E - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Mathematics. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585F - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Reading. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585G - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Social studies. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585H - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Early Childhood education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585I - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Elementary education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585J - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: The Middle school. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585K - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Secondary education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585M - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and

analyzing are the following: Instruction. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585N - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Educational technology. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585O - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Environmental education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585P - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Children's literature. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585Q - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Family studies. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585S - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Gifted and talented education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI585T - Topical Seminar** A graduate level seminar that involves the study of special problems and related research associated with practical educational situations. Problems available for critiquing and analyzing are the following: Teacher education. Maximum of six hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI586 - Curriculum Design and Development** Presentations concerning educational planning and curricular decision-making relating to curriculum: aims, goals, and objectives; nature of knowledge, disciplines, and subjects; curriculum structures: sequence and scope; substantive structural models; content and activity selection, product analysis and production; evaluation; and curriculum modification and change. Credit Hours: 3

**CI587 - Evaluating Learning and Instructional Programs** The course emphasizes both the evaluation of individual learner performance and program evaluation in the interest of assessing curriculum and instruction effectiveness. The rationales and assumptions supporting criterion-referenced assessment are contrasted with those of norm-referenced assessment. Both qualitative and quantitative data collection strategies are included. Attention is also given to the construction of evaluation reports. Credit Hours: 3

**CI588 - Design and Delivery of e-Learning** Investigates e-learning in both higher education and corporate training contexts. The course draws upon the tradition of distance education in covering the design, delivery, and evaluation of online and blended learning in higher education. The course also draws upon the tradition of computer-based training (CBT) in covering the design, delivery, and evaluation of web-delivered training in corporations and organizations. Credit Hours: 3

**CI589 - The Work of the Director of Curriculum and Instruction** The role of the director of curriculum and instruction is the focus of this course. Such topics as the background, current status, and tasks and functions of the position are examined. Additionally, such broad areas of the director's role as needs assessment, program planning and evaluation, and in-service education planning are covered. Prerequisite: CI 586 or CI 587 or consent of instructor. Credit Hours: 3

**CI590A - Independent Readings-Curriculum** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590B - Independent Readings-Supervision for Instructional Improvement** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590C - Independent Readings-Language Arts** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590D - Independent Readings-Science** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590E - Independent Readings-Mathematics** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590F - Independent Readings-Reading** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590G - Independent Readings-Social Studies** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590H - Independent Readings-Early Childhood** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590I - Independent Readings-Elementary Education** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590J - Independent Readings-Middle School** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590K - Independent Readings-Secondary Education** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590M - Independent Readings-Instruction** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590N - Independent Readings-Educational Technology** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590O - Independent Readings-Environmental Education** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590P - Independent Readings-Children's Literature** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590Q - Independent Readings-Family Studies** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590S - Independent Readings-Gifted and Talented Education** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI590T - Independent Readings-Teacher Education** Directed readings in literature and research. Maximum of four hours toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI591 - Web Resources for Teachers** Investigates use of the Internet in classroom instruction and for professional development. Focus is on the "4 Cs" of Internet use by teachers: Communication, Content, Collaboration, and Community. Credit Hours: 3

**CI592 - Mixed Methods in Educational Research** An examination of how to combine qualitative and quantitative research methods and to defend such studies with reference to the tenets of the underlying constructivist and post-positivistic research paradigms. The objective of the course is for students to design and defend a mixed methods educational research study. Prerequisite: EAHE 587 and EDUC 505 or consent of instructor. Credit Hours: 3

**CI593A - Individual Research in Education-Curriculum** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593B - Individual Research in Education-Supervision for Instructional Improvement** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593C - Individual Research in Education-Language Arts** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593D - Individual Research in Education-Science** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593E - Individual Research in Education-Mathematics** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593F - Individual Research in Education-Reading** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593G - Individual Research in Education-Social Studies** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593H - Individual Research in Education-Early Childhood** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593I - Individual Research in Education-Elementary Education** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593J - Individual Research in Education-Middle School** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593K - Individual Research in Education-Secondary Education** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff.

Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor.  
Credit Hours: 1-3

**CI593M - Individual Research in Education-Instruction** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593N - Individual Research in Education-Educational Technology** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593O - Individual Research in Education-Environmental Education** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593P - Individual Research in Education-Children's Literature** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593Q - Individual Research in Education-Family Studies** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593S - Individual Research in Education-Gifted and Talented Education** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI593T - Individual Research in Education-Teacher Education** The selection, investigation and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Maximum of three hours counted toward a Master's degree. Special approval needed from the instructor. Credit Hours: 1-3

**CI594A - Practicum-Curriculum** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594B - Practicum-Supervision for Instructional Improvement** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594C - Practicum-Language Arts** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594D - Practicum-Science** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development

implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594E - Practicum-Mathematics** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594F - Practicum-Reading** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594G - Practicum-Social Studies** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594H - Practicum-Early Childhood** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594I - Practicum-Elementary Education** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594J - Practicum-Middle School** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594K - Practicum-Secondary Education** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594M - Practicum-Instruction** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9



**CI594N - Practicum-Educational Technology** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594O - Practicum-Environmental Education** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594P - Practicum-Children's Literature** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594Q - Practicum-Family Studies** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594S - Practicum-Gifted and Talented Education** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI594T - Practicum-Teacher Education** For Master's degree students: professional consultation, teaching demonstration, practical application of advanced theory, work with clinical cases, or program development implementation, and evaluation in school systems, community colleges, or universities. In addition, may involve reading and research directed to special problems involved in on-site situations. A maximum of nine hours credit may be applied toward a Master's degree. Special approval needed from the instructor. Credit Hours: 2-9

**CI595A - Internship-Curriculum** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595B - Internship-Supervision for Instructional Improvement** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595C - Internship-Language Arts** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595D - Internship-Science** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595E - Internship-Mathematics** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595F - Internship-Reading** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595G - Internship-Social Studies** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595H - Internship-Early Childhood** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595I - Internship-Elementary Education** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595J - Internship-Middle School** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595K - Internship-Secondary Education** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595M - Internship-Instruction** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595N - Internship-Educational Technology** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595O - Internship-Environmental Education** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595P - Internship-Children's Literature** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595Q - Internship-Family Studies** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595S - Internship-Gifted and Talented Education** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI595T - Internship-Teacher Education** Culminating experience for Ph.D. or specialist degree students. Students engage in specialized service areas either in their own or a cooperating school or school system or university. Weekly on-campus or on-site seminar will be held with the intern supervisor. A maximum of eight hours credit may be applied toward a Ph.D. or specialist degree. Special approval needed from the instructor. Credit Hours: 2-8

**CI596 - Interactive Multimedia for Learning** An introduction to the evaluation, design, and development of interactive instructional multimedia programs. The instructional methods of Tutorial, Drill, Simulation, and Educational Games are covered. Projects include designing, developing, and use-testing an interactive instructional multimedia program. Credit Hours: 3

**CI597 - Problem-Based Learning for STEM Educators** This course surveys the history and development of Problem-Based Learning (PBL) and its applications in Science, Technology, Engineering, and Mathematics (STEM) education and place-based education. Participants will discuss PBL principles and pedagogy and critique or create PBL modules with respect to national and state STEM education standards in support of K-12 classroom implementation, adaptation, assessment, and iterative design of PBL instruction or intervention. Credit Hours: 1-3

**CI598 - Family Literacy Programs, Policies, and Practices** This course offers an in-depth look at family literacy programs, policies, and practices. The course adopts a sociocultural underpinning to explore how family literacy can contribute to the literacy growth of families and re-center parents as their children's first teachers. Topics include family diversity and funds of knowledge, the basic components of family literacy programs, opportunities for literacy learning, professional development and program improvement, and advocacy. Participants will gain an understanding of family literacy in historical, educational, social, and political contexts. Credit Hours: 3

**CI599 - Thesis** Minimum of three hours to be counted toward a Master's degree. Restricted to admission to Master's degree program. Credit Hours: 1-6

**CI600 - Dissertation** Minimum of 24 hours for the Doctor of Philosophy degree. Credit Hours: 1-16

**CI601 - Continuing Enrollment** For those graduate students who have not finished their degree programs and who are in the process of working on their dissertation, thesis, or research paper. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis, or research hours before being eligible to register for this course. Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only. Credit Hours: 1

**CI699 - Postdoctoral Research** Must be a Postdoctoral Fellow. Concurrent enrollment in any other course is not permitted. Credit Hours: 1

## Curriculum and Instruction Faculty

**Bacon, Heidi R.**, Associate Professor, Language, Reading and Culture, Ph.D., University of Arizona, 2014. Adolescent and adult literacies, action research, qualitative research.

**Bancroft, Senetta F.**, Professor, Curriculum and Instruction, Ph.D., The University of Akron, 2014. Secondary science education, chemical education.

**Becker, Jerry P.**, Professor, Mathematics Education, Ph.D., Stanford University, 1967; 1979. Mathematics teacher education, curriculum development, problem solving and international mathematics education.

**Bu, Lingguo**, Professor, Mathematics Education, Ph.D., Florida State University, 2008; 2008. Modeling, design, and curricular development in STEM education.

**Byfield, Lavern**, Associate Professor, Elementary Education: Language/Literacy Studies, Ph.D., University of Illinois Urbana-Champaign, 2012; 2012. Language Arts instruction, English as a Second Language (ESL) instruction, bilingual education, culturally responsive pedagogy.

**Fadde, Peter J.**, Professor, Instructional Research and Design, Ph.D., Purdue University, 2002; 2003. Online and blended learning, interactive multimedia, expert performance.

**Henson, Harvey Jr.**, Assistant Professor, Science Education & Geology, Ph.D., Southern Illinois University, 2015; 2016. Science assessment, teacher professional development, preservice teacher efficacy, geohazards education, applied geophysics.

**Lin, Cheng-Yao**, Professor, Ph.D., University of Illinois, 2003; 2004. Mathematics education.

**Loh, Christian Sebastian**, Professor, Instructional Technology, Ph.D., University of Georgia, 2004; 2004. Expert performance, serious games analytics, performance improvement & assessment.

**McIntyre, Christie**, Associate Professor, Teacher Education, Ph.D., Georgia State University, 2007; 2001. Teacher leadership, early childhood education, and literacy.

**Miller, Grant**, Associate Professor, Curriculum & Instruction, Ph.D., Boston College, 2007; 2007. History education, media literacy, universal design for learning, place-based education, assessment literacy.

**Mogharreban, Catherine N.**, Associate Professor, Ph.D., Southern Illinois University, 1990; 1998.

**Pultorak, Edward Jr.**, Professor, Curriculum and Instruction, Ph.D., Indiana State University, 1988; 1988. Curriculum studies, teacher leadership, curriculum and instruction, instructional supervision.

**Shelby-Caffey, Crystal V.**, Associate Professor, Curriculum & Instruction, Ph.D., Southern Illinois University, 2008. Literacy, culturally responsive pedagogy, new technologies, educational access, communities of color.

**Thompson, Stacy D.**, Professor, Child Development, Ph.D., Iowa State University, 1998; 2005. Interventions for families and caregivers, fathers of infants born to adolescent mothers, sensory integration.

## Emeriti Faculty

**Barrette, Pierre P.**, Associate Professor, Emeritus, Ed.D., University of Massachusetts, 1971; 1978.

**Bauner, Ruth E.**, Associate Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1978; 1956.

**Bedient, Douglas**, Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1971; 1969.

**Boykin, Arsene O.**, Associate Professor, Emeritus, Ed.D., University of Illinois, 1964; 1972.

**Campbell, James A.**, Associate Professor, Emeritus, Ph.D., Ohio State University, 1978; 1989.

**Copenhaver, Ron**, Associate Professor, Emeritus, Ed.D., Indiana University, 1979; 1978.

**Coscarelli, William**, Professor, Emeritus, Ph.D., Indiana University, 1977; 1986.

**Dale, Doris C.**, Professor, Emerita, D.L.S., Columbia University, 1968; 1969.

**Dixon, Billy G.**, Associate Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1967; 1961.

**Erickson, Lawrence**, Professor, Emeritus, Ph.D., University of Wisconsin, 1972; 1984.

**Gilbert, Sharon L.**, Associate Professor, Emerita, Ph.D., Ohio State University, 1988; 1988.

**Hungerford, Harold R.**, Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1970; 1965.

**Jackson, James**, Associate Professor, Emeritus, Ph.D., University of Wisconsin, 1976; 1976.

**Jackson, Michael**, Professor, Emeritus, Ed.D., University of Florida, 1971; 1971.

**Jones, Dan R.**, Associate Professor, Emeritus, Ed.D., Indiana University, 1978; 1978.

**Karmos, Ann**, Associate Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1975; 1975.

**Killian, Joyce**, Professor, Emerita, Ph.D., Pennsylvania State University, 1980; 1981.

**Lamb, Morris L.**, Associate Professor, Emeritus, Ed.D., University of Oklahoma, 1970; 1970.

**Malone, Willis E.**, Professor, Emeritus, Ph.D., Ohio State University, 1950; 1939.

**Matthias, Margaret**, Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1972; 1969.

**McIntyre, D. John**, Professor, Emeritus, Ed.D., Syracuse University, 1977; 1977.

**Moore, Eryn E.**, Assistant Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1976; 1968.

**Nelson, Joann N.**, Assistant Professor, Emerita, Ph.D., University of Illinois, 1980; 1982.

**Norris, William**, Associate Professor, Emeritus, Ed.D., Indiana University, 1973; 1977.

**Pearlman, Susan F.**, Associate Professor, Emerita, Ph.D., University of Missouri-Columbia, 1987; 1989.

**Post, Donna M.**, Associate Professor, Emerita, Ph.D., Pennsylvania State University, 1990; 1990.

**Shepherd, Terry R.**, Associate Professor, Emeritus, Ph.D., University of Illinois, 1971; 1971.

**Shrock, Sharon A.**, Professor, Emerita, Ph.D., Indiana University, 1978; 1984.

**Smith, Lynn C.**, Associate Professor, Emerita, Ph.D., University of Georgia, 1984; 1984.

**Solliday, Michael**, Associate Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1975; 1967.

**Volk, Gertrude**, Professor, Emerita, Ph.D., Southern Illinois University, 1983; 1987.

**Waggoner, Jan E.**, Associate Professor, Emerita, Ed.D., Memphis State University, 1990; 1990.

**Wise, Kevin C.**, Professor, Emeritus, Ed.D., University of Georgia, 1983; 1986.

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