302 Learners and Learning in Contexts – Secondary (W)
Fall, Spring, Summer. 4(3-4) P: TE 150 and (TE 250 and completion of Tier I writing requirement) R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted).
Role of social context and sociocultural background in learning at the secondary level (7-12). Natural and socially constructed differences among learners. Relationship among subject-specific knowledge, teaching and learning that subject, and the institutional and communal context. Multiple literacies.

304 Algebra for Elementary and Middle School Teachers
Fall. 3 credits. Interdepartmental with Mathematics. Administered by Mathematics. P: (MTH 201 and MTH 202 and MTH 301) and completion of Tier I writing requirement R: Open to undergraduate students in the College of Education or in the Department of Teacher Education. Approval of department. Algebra needed for understanding connections between topics of algebra and the mathematics taught in elementary and middle school.

305 Functions and Calculus for Elementary and Middle School Teachers (W)
Spring. 3(3-0) Interdepartmental with Mathematics. Administered by Mathematics. P: (MTH 304) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).
Functions and calculus needed for understanding connections between topics of calculus and the mathematics taught in middle school.

320 Integrated Science for Elementary Schools
Spring. 3(2-2) Interdepartmental with Integrated Science Education. Administered by Integrated Science Education. P: ISE 120 and (BS 161 or BS 162 or BS 181H or BS 182H or LB 144 or LB 145) or (CEM 141 or PHY 231 or PSL 250 or GLG 201 or GEO 203) R: Open to students in the College of Education or in the Education major or in the Special Education major or approval of college. SA: SME 120 Exploration of major connecting themes in life sciences, earth science, and physical science as evidenced in the K-8 science curriculum and college science courses.

351 Urban Education
Spring of even years. 3(3-0) Teaching and learning in urban institutions. Urban context and impact on schools. Urban school reform initiatives.

352 Immigrant Language and Culture
Spring of odd years. 3(3-0) Minority language communities and cultures. Family literacy issues and values. Emergent and adolescent literacy development. Parenting and parental involvement. Home-school connection. Family literacy programs.

353 International Education
Spring of even years. 3(3-0) Education in the global economy. Access and achievement, gender, race, and culture, role of home and community, school resources, teacher quality and policy, policy challenges in developing countries, role of international organizations, privatization of higher education.

361 Educational Reform and Policy Analysis
Fall. 3(3-0) Interdepartmental with Educational Administration. Administered by Educational Administration. Analysis of prominent current K-12 and higher educational reforms and policies in the United States.

403 Teaching of Science to Diverse Learners - Elementary
Fall. 3(3-2) P: (ISE 301 or ISE 320 or ISE 420) and completion of Tier I writing requirement R: TE 301 R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).
Teaching science to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Science subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.

404 Teaching of Social Studies to Diverse Learners - Elementary
Fall. 3(3-2) P: ((ISE 301 or ISE 320 or ISE 420) and completion of Tier I writing requirement) R: TE 301 R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).
Teaching social studies to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Social studies subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.

405 Teaching of Language and Literacy to Diverse Learners - Elementary
Spring. 3(3-2) P: (TE 403 and TE 404 and TE 348) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).
Teaching language and literacy to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Literacy subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.
Teacher Education—TE

406 Teaching of Mathematics to Diverse Learners: Elementary
Spring. 3(3-2) P: (MTH 201 and MTH 202 and TE 403 and TE 404) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).

Teaching mathematics to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Mathematics subject matter adapted to learner diversity. Teachers’ roles, including professional, intellectual, and sociopolitical responsibilities.

407 Teaching Subject Matter to Diverse Learners – Secondary (W)
Fall. 5(3-8) P: (TE 301 or TE 302) and Completion of Tier I Writing Requirement R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted).

Examining teaching as enabling diverse learners to inquire into and construct subject-specific meanings at the secondary level (7-12). Adapting subject matter to learner diversity. Exploring multiple ways diverse learners make sense of the curriculum.

408 Crafting Teaching Practices – Secondary (W)
Spring. 5(4-6) P: (TE 407) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted).

Gathering data on learners to inform content and instructional decisions. Learning what should be taught and how it should be taught for specific disciplines at the secondary level (6-12). Teachers’ multiple roles and their professional, intellectual, sociopolitical, and communal responsibilities.

409 Crafting Teaching Practices in the Secondary Teaching Minor
Spring. 1(1-0) A student may earn a maximum of 5 credits in all enrollments for this course. P: (TE 407 and (TE 408 or concurrently)) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted).

Deciding what should be taught for specific disciplines at the secondary level (7-12). Discipline-specific strategies for gathering data on learners to inform content and instructional decisions. Discipline-specific instructional strategies and student management and safety strategies.

420 Integrated Science Research
Fall, Spring. 3(2-2) Interdepartmental with Integrated Science Education. Administered by Integrated Science Education. R: Open to seniors in the General Science Secondary Teaching Major and open to seniors in the Integrated Science Elementary Teaching Major. SA: SME 420

Research design and data analysis of individual research projects relevant to the K-12 science curriculum, integrating topics in life, earth, and physical science.

430 Introduction to Arts in the Classroom
Fall, Spring. 3(3-0) R: Open to undergraduate students in the College of Education. Introduction to the power of teaching and learning through the arts. Explore how performing and visual arts can reach multiple learning styles and nurture the creative process of children through its innate variety of educational methods and expressions.

431 Learning Through Drama
Fall. 3(3-0) R: Open to undergraduate students in the College of Education. Introduction to the power of teaching and learning through drama. Explores how creative dramatics, and other art forms, can reach multiple learning styles through its innate variety of educational strategies and expressions.

432 Learning Through Movement
Spring. 3(3-0) R: Open to undergraduate students in the College of Education. Introduction to the power of teaching and learning through movement and dance. Explores how movement and dance can reach multiple learning styles through its innate variety of educational strategies and expressions.

448 Issues of Diversity in Children’s and Adolescent Literature
Fall, Spring, Summer. 3(3-0) P: TE 348 Theoretical perspectives, controversies, and classroom implications for literature by and about people who have traditionally been underrepresented in children’s and adolescent literature. Literature by and about African Americans, Asian Americans, Latinos and Latinas, American Indians, Middle Eastern Americans, and groups traditionally defined by class, religion, ability, gender, and sexuality.

458 Reading, Writing, and Teaching Poetry
Fall. 3(3-0) R: Open to undergraduate students in the College of Education. Reading poetry, writing from prompts, peer workshops, pedagogical strategies.

491 Special Topics in Teacher Education
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Not open to freshmen or sophomores.

Aspects of teaching practice and inquiry into practice.

494 Field Experience in Teacher Education
Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Approval of department. Supervised practica and/or observations in educational settings.

495 Student Teaching in Music
Fall, Spring. 1 to 6 credits. Interdepartmental with Music. Administered by Music. R: Open to seniors in the Bachelor of Music in Music Education.

Supervised music teaching experience in schools. On-campus seminar required.

496 Becoming a School Music Teacher
Fall, Spring. 3(2-3) R: Open to seniors in the Music Education Major. Not open to students with credit in TE 801 or TE 803. C: MUS 495 concurrently.

Teachers’ professional and ethical responsibilities. Relations of teachers to colleagues, families, social service providers and community leaders. Teacher’s role in school governance and accountability.

501 Internship in Teaching Diverse Learners I
Fall. 6(2-24) P: TE 405 or TE 406 or TE 408 or STA 482 R: Open to students in the Teacher Certification Internship Year Studies Program. Directed and evaluated internship in heterogeneous classrooms. Teaching worthwhile content to students with varied learning needs. Theoretical and field-based explorations of common teaching dilemmas.

502 Internship in Teaching Diverse Learners II
Spring. 6(2-24) P: TE 501 R: Open only to students admitted to the Teacher Certification Internship-Year Studies Program. Not open to students with credit in CEP 502A or CEP 502C.

Continuing internship in heterogeneous classrooms at selected schools. Increased emphasis on independent teaching. Maintaining classroom communities that ensure equitable access to important knowledge and skills. Assessing academic and social outcomes.

801 Professional Roles and Teaching Practice I
Fall. 3(2-3) P: TE 405 or TE 406 or TE 408 or STA 482 R: Open to students in the Teacher Certification Internship Year Studies Program. Not open to students with credit in CEP 801A.

Teachers’ professional and ethical responsibilities. Connections of schools to other social agencies. Relations of teachers to colleagues, families, other social service providers, and community leaders. Roles in school governance.

802 Reflection and Inquiry in Teaching Practice I
Fall. 3(2-3) P: TE 405 or TE 406 or TE 408 or STA 482 R: Open to students in the Teacher Certification Internship Year Studies Program. Not open to students with credit in CEP 802A or CEP 802C.

Qualitative and quantitative research methods on teaching and learning. Criteria for judging the validity and applicability of research-based knowledge. Framing educational problems worthy of inquiry. Designing and assessing studies of teaching practice.
803 Professional Roles and Teaching Practice II
Spring. 3(2-3) P: TE 801 R: Open only to students admitted to the Teacher Certification Internship-Year Studies Program. Not open to students with credit in CEP 803A or CEP 803C.

School-agency alliances for fostering student learning. Strategies for working with families and community groups to improve responsiveness of the school curriculum to student needs. Child advocacy in the school and community.

804 Reflection and Inquiry in Teaching Practice II
Spring. 3(2-3) P: TE 802 R: Open only to students admitted to the Teacher Certification Internship-Year Studies Program. Not open to students with credit in CEP 804A or CEP 804C.

Collecting, analyzing, and interpreting data on teaching, learning, and educational policy. Dilemmas surrounding research on practice. Appraising and reporting results of inquiry.

807 Professional Development and Inquiry
Fall, Summer. 3(3-0)
Teacher-centered inquiry through autobiography and documentation of self as learner. Relationship of personal research to classroom-based research. Application to practice.

808 Inquiry into Classroom Teaching and Learning
Fall, Spring. Summer. 3(3-0)
Alternative forms of classroom inquiry to improve teaching and learning of subject matter. Social context of teaching and learning, pedagogy, and teaching effects. Social and academic outcomes for diverse learners.

811 Philosophical Inquiry and Contemporary Issues in Education
Fall, Spring. 3(3-0)
Philosophies of education. Analytic tools used for evaluating current educational goals, practices, issues, and reforms.

813 Education, Development and Social Change
Spring of odd years. 3(3-0) Interdepartmental with Educational Administration. Administered by Educational Administration. Rise of modern systems of education in developed and developing countries. Education, the state, and national development. Colonial heritage, linkages, and globalization of educational development.

815 Comparative Analysis of Educational Practice
Fall of even years. 3(3-0)

818 Curriculum in Its Social Context
Fall. Spring. 3(3-0)
Philosophical, social, and historical foundations of curriculum. Issues and practices across subjects, grades, and school settings. Moral consequences of curriculum decisions for teachers and students.

820 Power and Pluralism in School Practice
Spring of odd years. 3(3-0)
Connections between schools and diversity, inequality, and power in society. Genesis and consequences of school policies for diverse learners.

822 Issues of Culture in Classroom and Curriculum
Fall of odd years. 3(3-0)
Socio-cultural contexts and functions of schooling. Cultural diversity in education. Schools and classrooms as cultural systems. Students’ cultural backgrounds in relation to curriculum. Developing effective multicultural curricula for all students.

823 Learning Communities and Equity
Spring. 3(3-0)
Cooperative and heterogeneous learning teams. Impact of learning communities on equity and on school curricula.

825 Diverse Learners and Learning Subject Matter
Summer. 3(3-0)
Multiple perspectives on teaching subject matter to diverse learners. Texts, curricula, and pedagogical approaches. Subject-specific issues related to classroom diversity.

831 Teaching School Subject Matter with Technology
Fall, Spring. 3(3-0)
Uses of technologies in teaching subject matter to diverse learners. Critical perspectives on technologies in schools.

836 Awards and Classics of Children’s Literature
Spring of even years, Summer of odd years. 3(3-0) RB: TE 849 SA: TE 883B
Critical examination of literary classics and award books for children, including children’s responses to this literature.

838 Children’s Literature in Film
Summer. 3(3-0)
Applies media and film studies perspectives to films created from children’s literature.

842 Elementary Reading Assessment and Instruction
Fall, Summer. 3(3-0)
Characteristics of effective reading assessment and instruction as identified in research and described by respected reading researchers and practitioners.

843 Secondary Reading Assessment and Instruction
Spring. 3(3-0)
Knowledge and methodology for teaching language, literacy, and thinking in selected secondary school subjects.

845 Language Diversity and Literacy Instruction and Assessment
Fall. 3(3-0) RB: One introductory linguistics course.
Acquisition of literacy in schools by and assessment of language minority students and other learners with diverse backgrounds.

846 Accommodating Differences in Literacy Learners
Fall, Spring. Summer. 3(3-0) RB: Access to two K-12 students for course requirement to conduct two case studies.
Developmental processes, instructional practices, and assessment principles that contribute to effective learning of reading and writing. Teaching methods for accommodating the different needs of individual literacy learners.

848 Writing Assessment and Instruction
Spring of even years. 3(3-0) RB: TE 847
Writing theory, research, and pedagogy. Writing processes, strategies, assessments, and environments that address diverse writers (K-adult). Expository, narrative, and poetic genres. Prewriting, composing, revising, editing, and publishing.

849 Methods and Materials for Teaching Children’s and Adolescent Literature
Fall of odd years, Spring of odd years, Summer of even years. 3(3-0)
Evaluation and utilization of various genres and elements of literature with focus on literature for students in grades K-12.

850 Critical Reading for Children and Adolescents
Fall of even years. 3(3-0)
Teaching and learning of critical and aesthetic responses to literature for K-12 students.

853 Assessing and Responding to Literacy Learning Difficulties I
Fall. 3(3-0) P: (TE 842 or TE 843) and (TE 807 and TE 845 and TE 848)
Instructional needs of struggling literacy learners. Multiple processes that contribute to proficient reading and writing. Difficulties related to specific reading and writing processes and/or to the orchestration of those processes. Developing and assessing vocabulary, comprehension, and composition skills.

854 Assessing and Responding to Literacy Learning Difficulties II
Spring of even years. 3(3-0) P: TE 853 RB: TE 843
Identification of and response to instructional needs of struggling literacy learners. Collaboration in instructional planning and coordination across instructional settings, causes and correlates of reading difficulties.

855 Teaching School Mathematics
Fall. 3(3-0) RB: Two undergraduate mathematics courses.
Methods, materials, activities, and content important to teaching mathematics. Emphasis on conceptual understanding of mathematical ideas. Implications for lesson development, teaching diverse learners, and evaluating student learning.

857 Teaching and Learning Mathematical Problem Solving
Spring. 3(3-0) RB: Two undergraduate mathematics courses.
Alternative processes to solving mathematical problems and incorporating problem solving into K-12 teaching. Selection, appraisal, and uses of problems in the classroom. Materials and assessment strategies.
Teacher Education—TE

860 Practice and Inquiry in Science Education
Spring. 3(3-0)
Teaching science subjects. Emphasis on learner diversity, learning community, conceptual understanding, subject matter content, and learners’ prior knowledge.

861A Teaching Science for Understanding
Summer. 3(3-0) RB: A teaching certificate with concentration in science teaching at elementary or secondary level. Enrollees should be teaching or otherwise have access to a classroom for the practical components of this course. Responses to contemporary over-emphasis on memorization and coverage of content knowledge in science teaching. Theoretical knowledge, techniques, and practical skills necessary to teach science for understanding.

861B Inquiry, Nature of Science, and Science Teaching
Fall. 3(3-0) RB: A teaching certificate with concentration in science teaching at elementary or secondary level. Enrollees should be teaching or otherwise have access to a classroom for the practical components of this course. Inquiry and the nature of science as part of current science education reforms. Theoretical knowledge and practical skills for including inquiry and the nature of science in science instruction.

861C Action Research in K-12 Science and Mathematics
Spring. 3(3-0) RB: A teaching certificate with concentration in science teaching at elementary or secondary level. Enrollees should be teaching or otherwise have access to a classroom for the practical components of this course. Philosophy and methods supporting action research in sciences and mathematics classrooms. Design and implementation of an action research project in student’s own setting. Analyzing, interpreting, and reporting project results. Reflection on study’s value.

865 Teaching and Learning K-12 Social Studies
Summer. 3(3-0)
Purposes for teaching and learning social studies. Developing citizenship, social science reasoning, and content knowledge with diverse learners.

867 Perspectives in Social Studies: Global Education
Fall. Odd years, Summer. 3(3-0)
Issues affecting the global community. Educational strategies for developing a global perspective on human relationships and the environment.

870 Curriculum Design, Development, and Deliberation in Schools
Fall, Spring, Summer. 3(3-0) P: (TE 807 or TE 808) or (TE 801 or TE 818) Simulation in group curriculum deliberation. Critique of curriculum discourse, process, and product. Teachers’ roles in site-based curriculum and staff development.

872 Teachers as Teacher Educators
Spring. 3(3-0) P: (TE 807 or TE 808) and (TE 801 or TE 818)
Experienced teachers’ contributions to the professional development of novice teachers. Implications for school change.

873 Literacy Leadership
Spring. 3(3-0) RB: Nine credits in reading or language arts and classroom teaching experience. Leadership roles for teachers in developing and improving literacy programs at preschool, K-12, college, and adult education levels. Assessing local needs in the context of national and state professional standards for literacy instruction. Maximizing use of resources. Evaluating programs and communicating evaluation results.

877 Community Literacy
Spring of even years. 3(3-0) Interdepartmental with Writing, Rhetoric and American Cultures. Administered by Writing, Rhetoric and American Cultures. R: Open to graduate students or master's students or doctoral students in the College of Education or in the Department of English or in the Professional Writing Major or in the Rhetoric and Writing Major. SA: AL 877
Applied research in a community organization, nonprofit agency, workplace, or school. Theories and designs of service learning pedagogies.

879 Teaching College Mathematics
Fall of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics Education. Administered by Mathematics Education. RB: Past or concurrent mathematics teaching experience. SA: SME 879
Curriculum materials, case studies, approaches to teaching and student learning of particular mathematic topics.

882 Seminars in Curriculum and Teaching
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Intensive study of selected topics in curriculum and teaching.

883 Seminars in Literacy Instruction
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Intensive study of selected topics in literacy instruction.

890 Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Supervised individual study in an area of curriculum, teaching, or schooling.

891 Special Topics in Teaching, Curriculum, and Schooling
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 15 credits in all enrollments for this course. Current special topics in various fields of teacher education.

892 ESL/FL Classroom Practice: K-12 Literacy Instruction
Fall. 3(3-0) C: LLT 807 concurrently.

894 Laboratory and Field Experiences in Teaching, Curriculum, and Schooling
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Supervised graduate practica and internships in curriculum, teaching, and schooling.

895 Research Ethics in Women's Studies
Summer. 1(1-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Educational Administration and Kinesiology. Administered by Kinesiology. R: Open to graduate students. SA: PES 895

896 ESL/FL Practicum: K-12 Literacy Instruction
Spring. 2(2-0) P: TE 892
Syllabus and lesson plan development for a four-week field experience in English as a second language or foreign language K-12 setting.

897 Seminar in Feminist Theories, Epistemologies, and Pedagogy
Spring of odd years. 3(3-0) Interdepartmental with English and Philosophy and Sociology and Women's Studies. Administered by Women's Studies. Foundational knowledge, theory, epistemology, and pedagogy in women’s and gender studies from a multi-disciplinary, global perspective.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. Master's thesis research.

901 Proseminar in Curriculum, Instruction, and Teacher Education I
Fall. 3(3-0) R: Open to doctoral students in the Curriculum, Instruction and Teacher Education major and open to doctoral students in the Educational Policy major and open to doctoral students in the Mathematics Education major.
>Purposes, history, structure, reform and consequences of the K-12 educational enterprise. Teaching practice, student learning, curricula, school organization, and educational policy. Theories and interpretations of educational systems. Schooling experiences of minority populations. Consideration of topics in and outside of the U.S.
902 Proseminar in Curriculum, Instruction, and Teacher Education II
Spring. 3(3-0) RB: TE 901 R: Open to doctoral students.
Two historical episodes related to improving teaching practice, teacher and student learning, curricula, and educational policy. Nature and effects of educational reforms.

904 ELL/ESL Research and Practice: K-12
Sociocultural and socio-political contexts for research in ELL/ESL teaching and learning; methods in ELL/ESL research; biliteracy/bilingualism, multiliteracies/multilingualism, and syncretic literacies; methods and curricula in second language teaching; identity, motivation, gender, race, and class; parent, school, and community partnerships for second language learners.

907 Psychological Study of Teaching
Spring of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling. Educational Psychology and Special Education. R: Open to doctoral students.
Research literature on psychological aspects of teachers and teaching. Topics include teacher’s decision-making, learning from experience, and developmental changes.

908 Sociohistorical Perspectives on English Language Learners and Second Language Education in the US
Spring of even years. 3(3-0)
Social and historical contexts in which languages are used, taught, and learned and how they have a profound impact on language practice, the language acquisition processes at school and in society at large.

909 English Language Learners in Content Areas: Constructing Research Communities and Resources
Spring of odd years. 3(3-0) R: Open to doctoral students.
Multiple perspectives on communities and resources for teaching and learning content areas in contexts with English learners. Issues of equity and implications for non-English learners will also be discussed.

910 Youth Language and Literacy in Schools and Communities
Fall of even years. 3(3-0) RB: Courses or work experiences in education, youth or adolescent development and programming, literacy, urban studies, ethnic studies, sociolinguistics
Contemporary research, theory, and practice critically situate school and beyond school language and literacy learning in the lives of youth and their communities. Focus on social justice-oriented work with youth of color and other young people marginalized by systemic inequalities. Increasing understanding of the oral and written communication many young people engage in through their participation in youth cultures. A study of race, class, gender identity, sexuality, ability, and citizenship status as they are lived through languages and literacies by youth and their communities.

912 Reading Comprehension: Research and Theory
Fall of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling. Educational Psychology and Special Education. R: Open to doctoral students.
Theory and research on the development, teaching, and learning of reading comprehension birth through adulthood.

913 Psychology and Pedagogy of Mathematics
Fall of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling, Educational Psychology and Special Education. RB: CEP 902 R: Open to doctoral students.
Psychological theory and research on the learning of mathematics. Development of mathematical thinking and knowledge in school and other settings.

915 Literacy in Sociocultural Context
Fall of even years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling, Educational Psychology and Special Education. R: Open to doctoral students.
The learning and development of literacy and the role of literacy in mediating cognition, affect, and action in educational contexts. Relationship between literacy and sociocultural contexts.

917 Contemporary Theories and Discourses in Education
Fall of even years. 3(3-0)
Logical positivism, interpretive theories, critical theory, feminist theory, poststructuralism and neo-pragmatism. Applications to curriculum, teaching, and educational policy.

918 Disciplinary Knowledge and School Subjects
Spring. 3(3-0)
Cross-disciplinary comparisons of the nature of knowledge, its creation, refutation, and use. Correspondence between disciplinary knowledge and knowledge as represented in schools.

919 Policy Analysis in Education
Fall. 3(3-0)
Conception, generation, and analysis of educational policies. Contexts such as governance levels, national setting, and legislative forms. Uses, limitations, and ethics of policy analysis.

920 Social Analysis of Educational Policy
Spring. 3(3-0)
Social science perspectives on factors outside and inside school systems which shape policy and influence both the nature of policy problems and the form of educational solutions.

921 Learning to Teach
Fall. 3(3-0)
Intellectual, practical, and moral dimensions of teaching and learning to teach. Impact of formal and informal influences on teachers’ knowledge, skills, and attitudes.

923 Comparative Perspectives on Curriculum, Instruction, and Teacher Education
Spring of odd years. 3(3-0)

924 Philosophy of Education: Ideas and Methods
Spring of even years. 3(3-0)
Selected ideas in education from different philosophical traditions. Issues of method, historical perspectives, and textual analysis.

926 Proseminar in Mathematics Education I
Fall of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics Education. Administered by Mathematics Education. SA: SME 926
Research on the learning and teaching of mathematics. Focus on curriculum, discourse, equity and teacher education.

927 Proseminar in Mathematics Education II
Fall of even years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics Education. Administered by Mathematics Education. SA: SME 927
Research on the learning and teaching of mathematics. Focus on teacher student learning, assessment and policy.

928 Proseminar in Educational Policy
Fall. 3(3-0) Interdepartmental with Educational Administration. Administered by Educational Administration.

931 Introduction to Qualitative Methods in Educational Research
Fall, Spring, Summer. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Educational Administration. Administered by Teacher Education. RB: CEP 930
Concepts and assumptions underlying multiple traditions of qualitative research methods in education. Relationship between research questions and qualitative research design. Epistemology, methods, and ethical issues of ethnography, case study research, grounded theory, oral history and discourse analysis. Criteria for appraising and critiquing qualitative research designs, claims, and evidence.

934 Introduction to Quantitative Methods in Educational Research
Fall, Spring. 3(3-0) RB: CEP 930
Teacher Education—TE

936 Topics in Research on Teaching and Learning Science
Fall. 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: PhD student in Teacher Education or science related fields. Research on teaching and learning in science. Teacher learning, student learning, and assessment of teaching and/or learning.

937 Topics in Social, Historical, Philosophical Foundations of Science Education
Spring of even years. 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Foundations for research in science education. Diversity, social justice, and equity research and cognitive research, and the role of social, historical, and philosophical perspectives on framing research questions, methods and claims in these areas.

938 Qualitative Data Analysis
Fall. 3(3-0)
Qualitative data analysis tools and techniques; approaches and theories that inform and guide the analysis, interpretation, and representation of qualitative data.

939A Special Topics in Advanced Qualitative Methodology
Fall of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Special topics in advanced methods of qualitative research in education.

939B Advanced Qualitative Methods: Critical Ethnography
Spring of odd years. 3(3-0)
Critical theories—postmodernism, poststructuralism, postcolonialism, feminism, queer theory—and their implications for conceptualizing, conducting, analyzing, and representing one’s research. Political and ethical dimensions inherent in qualitative research as well as the amalgamation of epistemology, ontology, and methods into a coherent and purposeful methodology that is ethical, reciprocal, and praxical.

939C Advanced Qualitative Methods: Discourse Analysis
Spring of even years. 3(3-0)
Discourse analytic approaches to research in education and related areas of inquiry through an interdisciplinary lens and traditions that range from interactional sociolinguistics and narrative analysis to conversation analysis and critical discourse analysis.

939D Advanced Qualitative Methods: Case Studies
Spring of even years. 3(3-0)
Aims and methods of case study research: conceptions of case study research as well as interpretive methods frequently used in case studies, including ethnographic observations, textual analysis, multimodal/video analysis, interviews, and focus groups.

939E Advanced Qualitative Methods: Humanities Oriented Research
Fall of odd years. 3(3-0)
Research traditions in history, philosophy, literary criticism, arts, narrative inquiry, language, communication arts, ethics, religion, curriculum theory, and cultural studies. Epistemology, theory, arts, values, and history of science.

939F Advanced Qualitative Methods: Phenomenology
Spring of odd years. 3(3-0)
Phenomenological methodologies to study the caring professions (education and related fields). Exploring participants’ subjective experiences and interpretations of the phenomenon being studied.

939G Advanced Qualitative Methods: Humanizing Research—Decolonizing Qualitative Inquiry
Fall of even years. 3(3-0)
Conducting qualitative research for justice with individuals and groups who are marginalized by systems of inequity; contemporary methodological dilemmas and innovations. Building relationships of dignity and care; reciprocity and dialogic consciousness-raising; and ways in which research might be considered an answer to pressing social and educational problems.

940 Curriculum Deliberation and Development
Fall of odd years. 3(3-0)
Research in curriculum deliberation and development. Discourse, group dynamics, processes, and outcomes for teaching and learning.

942 Economics of Education
Spring. 3(3-0) Interdepartmental with Educational Administration. Administered by Educational Administration. R: Open to graduate students.

Economic effects of education. Economic analysis of policy issues in education. Applications to the United States and other countries.

943 Seminar in Professional Development
Spring of even years. 3(3-0)
Synthesis and application of knowledge acquired through consideration of research and field-based inquiry from teacher practice and change initiatives.

944 Seminar in English Education
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to doctoral students.

Current issues in research, methods and policy in the field of English education.

945 Current Issues in Children’s and Adolescent Literature
Spring of even years. 1 to 3 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to doctoral students.

Intensive study of current issues in writing, publishing, reading, teaching, and analyzing children’s and adolescent literature.

946 Current Perspectives on Literacy Research and Instruction
Spring. 3(3-0) R: Open to doctoral students.

Theoretical and empirical development in literacy research and instruction.

947 Comparative International Education Policy
Fall. 3(3-0) Interdepartmental with Educational Administration. Administered by Educational Administration. R: Open to graduate students.


950 Mathematical Ways of Knowing
Spring of odd years. 3(3-0) RB: Two undergraduate mathematics courses.

Philosophical, cultural, political, societal, psychological, and historical perspectives on knowing in mathematics as a discipline.

954 Design and Methods in Mathematics Education Research
Fall. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Mathematics Education. RB: (MTHE 927) and at least one approved research methods course. SA: SME 954

History, current trends, and issues pertaining to research design and methods in mathematics education research. Mathematics education research in the areas of policy, teaching, teacher learning, and student learning with particular attention to how research design influence research findings.

958 History of Literacy Research and Instruction
Fall of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Teacher Education. R: Open to doctoral students.

Key historical, political, scholarly, and educational issues influencing literacy curriculum and pedagogy.

959 Acquisition and Development of Language and Literacy
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Teacher Education. R: Open to doctoral students.

Language and literacy development with an alternat-ing focus on early and middle childhood and adolescence and adulthood. Major areas of language and literacy development including phonology, orthography, morphology, semantics, syntax, and pragmatics. Connections between oral and written language development. Home and school influences on language and literacy development. Individual differences in language and literacy development.

961 Urban Politics, Education, and School Reform
Spring of even years. 3(3-0) R: Open to doctoral students.

Challenges cities face in initiating and sustaining meaningful education reform efforts.

962 Teachers and Teaching in Urban Contexts
Fall of even years. 3(3-0) R: Open to doctoral students.

Effective instruction and instructional support in urban settings.

963 Critical Race Theory in Education
Spring of even years. 3(3-0) R: Open to doctoral students.

Critical race theory as an analytical framework that provides race epistemology, methodological, and pedagogical approaches to study everyday inequalities in P-20 education.
970 Curriculum and Pedagogy in Teacher Education
Spring of even years. 3(3-0)
Teacher learning opportunities at the preservice, induction, and inservice levels. Intended and enacted curriculum, sources of pedagogy, and their impact on teachers’ knowledge, skills, and attitudes.

971 Teacher Learning in School Settings
Fall of odd years. 3(3-0)
Research about school-based learning by prospective, beginning, and experienced teachers. Observation, conversation, writing, and classroom research as tools for improving teaching.

975 Policy Perspectives on Teaching and Teacher Education
Fall of even years. 3(3-0)
Policy issues such as teacher accountability, teacher knowledge, and political influence.

980 Writing, Research, and Theory
Fall of even years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling, Educational Psychology and Special Education. R: Open to doctoral students.
Theory and research on the development, teaching, and learning of writing, birth through adulthood.

982 Seminar in Curriculum, Instruction, and Teacher Education
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.
Intensive study in an area of curriculum, teaching, and learning: educational policy and social analysis; or teacher education and teacher learning.

990 Independent Study
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to doctoral students.
Supervised individual study in an area of curriculum, instruction, and teacher education.

991 Special Topics in Curriculum, Instruction, and Teacher Education
Fall, Spring. Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
Special topics in the fields of curriculum, instruction, and teacher education.

994 Laboratory and Field Experience in Curriculum, Instruction, and Teacher Education
Fall, Spring. Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to doctoral students. Approval of department.
Supervised practice, observations, and internships in an area of educational policy and social analysis, teacher education and teacher learning, and curriculum, teaching and learning.

995 Research Practicum in Curriculum, Instruction, and Teacher Education
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to educational specialists or doctoral students in the Department of Teacher Education and open to students in the Educational Policy major.
Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 23 credits. A student may earn a maximum of 30 credits in all enrollments for this course. R: Open to doctoral students in the Curriculum, Instruction, and Teacher Education major and open to doctoral students in the Educational Policy major.
Doctoral dissertation research.