ELEMENTARY EDUCATION (E ED)

E ED 250 Teaching and Learning Beyond the Classroom (Units: 3)
Analysis and exploration of how children learn from the local, natural, and built environment. Examining the practice of teaching social studies and science through the use of local historical and educational sites. (Plus-minus letter grade only) [Formerly EDUC 250/E ED 250]

Course Attributes:
- D1: Social Sciences

E ED 306 Collaborations and Partnership with Families in ECE (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theory and practical models for understanding and working with diverse children and families in and out of school settings. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 333 Dynamic Educators for the 21st Century (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Developing a philosophy through critical literacies stances (a way of being, not activities) toward teaching and learning based on social justice and equity. Focus on teaching and learning as multi-dimensional interactive processes. Investigate, articulate theories and practices to develop students inquiry through integrated curriculum research-based projects for grades Kindergarten-8th grade. (This course is offered as EDUC 333 and E ED 333. Students may not repeat the course under an alternate prefix.)

E ED 450 Art and Learning (Units: 3)
Prerequisites: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.
Principles and practices of curriculum planning and instruction for teaching art to k-5 children. Discussions of theory and practice coincide with hands-on art making and curriculum development. Lecture, 1 unit; activity, 2 units. Extra fee required. [Formerly EDUC 450/E ED 450, ART 450]

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Social Justice

E ED 602 Advanced Curriculum Study in ECE (Units: 3)
Prerequisites: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.
Advanced integrated curricular development for young children in culturally and linguistically responsive early childhood setting. Introducing diverse early childhood curricular and discussing DAP teaching and learning materials. Theory, practice, and policy related to creating and implementing integrated curriculum for high-quality ECE programs. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

E ED 603 Promoting Young Children's Social and Emotional Development (Units: 3)
Prerequisites: Successful completion of GE Areas A1, A2, A3, and B4; PSY 330; or consent of the instructor.
Theories and educational programs focusing on children's social and emotional development in culturally responsive early childhood settings. Attachment relationships, prosocial behavior, self-esteem, identity formation, friendships, guidance, and classroom management. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses. (Plus-minus letter grade only)

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

E ED 604 Advanced Issues in Collaboration with Families and Communities in ECE (Units: 3)
Prerequisites: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.
Understanding and overcoming obstacles to effective communication between educators and parents through conferences, home visits, participation on boards and committees, and problem-solving experiences. The rationale for parent involvement. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
E ED 605 Supervised Student Teaching in Observation and Evaluation in ECE (Units: 3)
Prerequisite: E ED 600 or E ED 610 (may be taken concurrently).
Supervised field experience in an infant, preschool, or school-age daycare program. Techniques of observation and other evaluations will be practiced and used to develop individualized learning experiences. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 607 Leadership and Administration in ECE (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ingredients necessary for a functioning staff in child development programs. Dynamics of an interdisciplinary early childhood team: administrators, teachers, parents, and support personnel. Development of roles and communication skills. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 608 Supervised Fieldwork: Preschool Curriculum Development (Units: 3)
Prerequisites: E ED 602 and E ED 610 (may be taken concurrently).
Field experience in an infant, toddler, preschool setting. Implementation of integrated curriculum. There is a requirement of 9 hours per week of classroom observation/participation in an approved licensed children facility.

E ED 610 Classroom Assessment and Evaluation for Young Children (Units: 3)
Prerequisites: CFS 320, PSY 330, and consent of instructor.
Observation and assessment of children's behavior and development in diverse early childhood settings and communities. Informal observational techniques, role of assessment in curriculum planning. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses. (Plus-minus letter grade only)

E ED 611 Advanced Issues in Infant-Toddler Education and Care (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Thorough and practical examination of developmental theory from 0-3 years. Practical applications to planning group programs in a variety of settings. Role of relationships as seen in many contexts. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 614 Science, Math, and Technology Curricular in ECE (Units: 3)
Prerequisite: Upper division standing.
Development of problem solving abilities related to mathematics and science for preschool-age children. Materials and techniques for teaching using an inquiry approach while incorporating everyday experiences. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

E ED 615 Environmental Education in ECE (Units: 3)
Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.
Helping teachers of young children to explore their sense of wonder and connection with the out-of-doors. Finding nature in the city and expanding outdoor experiences. Field trips to study sites throughout the Bay area. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability

E ED 616 Language and Literacy in Multilingual ECE Settings (Units: 3)
Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.
Children's language learning in culturally and linguistically diverse early childhood settings. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

E ED 619 Children's Play: Theory and Practice (Units: 3)
Prerequisite: Upper division standing.
The role of play in the development of young children. The educator's role in providing an environment which is physically safe, intellectually challenging, and emotionally nurturing, where young children have maximum opportunity to learn through play. Designing environments and programs that recognize the importance of play. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice
E ED 639 Bilingual Education in the U.S.: A History of Struggle, Resistance, and Achievement (Units: 3)
Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.

Examination, exploration and analysis of the history of bilingual education and its impact on educational opportunities for culturally and linguistically diverse students in the U.S. (Plus-minus letter grade only.) (This course is offered as EDUC 639 and E ED 639. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-D: Social Sciences

E ED 640 Gear Up Tutors in Schools (Units: 3)
Prerequisite: Must be accepted in the GEAR UP program.

Explore and identify best educational practices to prepare middle school students in San Francisco for college level studies and to gain access to higher education. May be repeated for 18 units. (CR/NC grading only)

E ED 642 Integrating Content Knowledge & Teaching Practices toward a Multiple Subj Cred.: Elem. School (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Integrating content knowledge and teaching practices on issues related to teacher preparation; content integration, test analysis, focused practice; state adopted academic content standards in the teaching profession. May be repeated for a total of 6 units, but only three units may count toward the minor in elementary education. (CR/NC grading only)

E ED 645 Directed Experiences with Children (Units: 1-3)
Prerequisite: Upper-division standing or consent of instructor.

Registration by recommendation of adviser and consent of the instructor.

Individually guided observation and participation experiences with children in elementary school. May be repeated for a total of 5 units. [CSL may be available]

E ED 655 Hands-on Undergraduate Science Education Experience (Units: 3)
Prerequisite: Restricted to students with upper-division standing.

Application of knowledge of core science concepts to the teaching of elementary school children; design, implement and analyze the effectiveness of inquiry-based science learning activities to explore how children learn science.

E ED 668 Multicultural Education and Social Justice for Young Children (Units: 3)
Prerequisite: Upper division standing.

Introduces approaches for integrating education about diversity in early childhood programs. Helping young children develop positive self concept and attitudes about gender, race, ethnicity, and disabilities. Critical thinking skills for challenging bias and thriving in multicultural society. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 681 Teaching Language and Literature with Elementary and Middle School Students (Units: 3)
Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.

Introduction to children’s literature from picture books to chapter books. Topics include history of children’s literature, use of children’s literature in the preschool to grade 8 classroom, multicultural and multilingual children’s literature, and author and genre study. (Plus-minus letter grade only) (This course is offered as EDUC 681 and E ED 681. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-C: Arts and/or Humanities

E ED 687 Seminar: Field Experience (Units: 2-3)
Prerequisite: Enrollment limited to Multiple Subject Credential candidates.

Understanding school and classroom culture, roles of the teacher in contemporary urban school settings. Instruction, teaching, evaluation, professional responsibilities and opportunities, and community relationships. Application of theory to practice. May be repeated for a total of 6 units. (CR/NC grading only)

E ED 699 Independent Study (Units: 1-3)
Prerequisite: Upper-division standing or consent of the instructor.

An intensive study of a particular problem under the direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only. May be repeated for a total of 6 units.

E ED 701 Social, Cultural, and Historical Foundations of Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Theory and research on children’s social, emotional, and physical development across sociocultural contexts. Relationship to children’s learning, implications for early childhood education, and the design of quality programs for young children (0-8 years). (Plus-minus letter grade only)

E ED 700 Social, Emotional, and Physical Development in Early Childhood Education Sociocultural Contexts (Units: 3)
Prerequisites: Upper division standing and consent of instructor. Intended for Multiple and Single Subject Credential candidates.

Examines, from a critical perspective, historical, social, and cultural foundations for theoretical frameworks and pedagogical practices for the classroom.

Course Attributes:

- Teacher Credential Program Crs

E ED 703 Family Literacy Studies of the Elementary Age Child (Units: 3)
Prerequisite: Admission to MA in Elementary Education Program.

Research and theory of cross-cultural family literacy practices. Patterns of parent engagement in elementary age students’ home and school literacy practices. (Plus-minus letter grade only)
E ED 704 Children’s Play Development in School and Community (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Role of young children's play in cross-cultural educational and community settings. Innovative practices and curriculum for promoting positive and meaningful play experiences in and out of school. (Plus-minus letter grade only)

E ED 705 Exploring Child and Adolescent Literature (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential program.
Exposure to a wide-range of child and adolescent literature. Examination of teaching methods and literature for use in the TK, elementary and secondary classroom. Author study and bookmaking.

E ED 707 Cognitive Development in Early Childhood Education Sociocultural Contexts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theory and research on children's (0-8 years) intellectual development, as framed by sociocultural contexts. Application to instruction, curriculum development, and design of environments for young children. (Plus-minus letter grade only)

E ED 708 First and Second Language Development in Early Childhood Education (Units: 3)
Prerequisite: Consent of instructor.
Theory and research on children's (0-8 years) first and second language development in multicultural settings. Role of culture and socialization; practical applications for children's oral and written language learning. (Plus-minus letter grade only)

E ED 709 Early Childhood Education Curriculum in Pluralistic Society (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Analyze and interpret works of various scholars that have influenced ECE curricula; discuss who decides the context of knowledge, instructional methods, as well as the evaluation system in contemporary ECE practices. (Plus-minus letter grade only)

E ED 710 Children's Early Literacy Development in Early Childhood Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theory, practice, and policy on children's (0-8 years) acquisition of written language in multicultural setting. Emphasis on role of culture and socialization, and practical applications of successful classroom and childcare instruction.

E ED 711 Chinese Heritage Language for the Bilingual Teacher Candidates (Units: 3)
Prerequisite: Restricted to Multiple Subject Credential Program students.
To continue the advancement of the Chinese proficiency for the MS bilingual credential candidates in speaking, reading, writing, listening and culture development. Focus on pedagogical strategies to teach bilingual Chinese and second language learners in elementary classroom settings; and address the vast linguistic and cultural diversity of Chinese in the USA. (Plus-minus AB/NC)

E ED 712 Teaching Reading and Language Arts, Chinese Bilingual (Units: 3)
Prerequisite: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization Chinese.
Prepares elementary school teacher candidates with theories and research findings to teach reading and language arts in Chinese. Systematic and explicit instruction in teaching a comprehensive Chinese literacy includes oral language, reading strategies, vocabulary and writing development. (Plus-minus letter grade only)

E ED 713 Spanish Heritage Language for the Bilingual Teacher: I (Units: 3)
Prerequisite: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization.
Development of Spanish proficiency for the bilingual teacher in listening, speaking, reading and writing, and using culturally responsive instruction. Pedagogical strategies, and preparation for becoming reflective practitioners. Addresses linguistic/cultural diversity of Latinos/as in the USA.

Course Attributes:
- Teacher Credential Program Crs

E ED 714 Spanish Heritage Language for the Bilingual Teacher: II (Units: 3)
Prerequisites: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization (Spanish); E ED 713.
Demonstration of competency in applied linguistics, pedagogical theories and practices as these are designed, planned and implemented in Spanish bilingual classroom settings.

E ED 715 Families in Early Childhood Settings and Communities (Units: 3)
Prerequisite: E ED 717 or consent of instructor.
Research, policy, and practice related to young children and families in diverse early childhood settings and communities. Family structures, cultural perspectives, family-school relationships, family literacy, and outreach programs. (Plus-minus letter grade only)

E ED 717 Narrative Inquiry and Memoir in Early Childhood Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Focus on autobiographical accounts (memoir) and stories (narrative inquiry) for understanding teaching and learning. Practical applications to teaching and use of narrative inquiry for qualitative research.

E ED 720 Research and Practice in Language and Literacy Education (Units: 3)
Prerequisite: ISED 797.
Introduction to leading ideas in quantitative and qualitative methods in educational research that focus on language and literacy; identification of research questions, review of literature, research problems, research plans, design issues, data analysis, instrument construction, data analysis, and reporting. (Plus-minus letter grade only)
E ED 721 International Education in Early Childhood and Elementary Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Interdisciplinary course on research, policy, and practice relating to international education in early childhood and elementary school. Topics include international school structures, school demographics, philosophies of schooling, curricula, immigration, gender, and student achievement. (Plus-minus letter grade only)

E ED 723 Inservice Leadership in Reading (Units: 3)
Prerequisite: Consent of adviser and course instructor.
Development of professional growth in reading; determining staff needs; designing programs of in-service education; problems of consultation and program development, aiding in development of curriculum and improvement of instruction. (Plus-minus letter grade only)

E ED 725 Classroom Issues in Language, Literacy, and Culture (Units: 3)
Prerequisite: Consent of instructor.
Research and theory on language and literacy development in linguistically and culturally diverse communities and classrooms; first and second language acquisition; emergent literacy; implications of research for culturally responsive teaching and classroom organization. (Plus-minus letter grade only)

E ED 726 Engaging Young Writers in Classroom Settings, TK-12 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential Program.
Introduction to theories and practices of teaching writing in elementary and secondary level classrooms. Writing research, methodology, student assessment, and literature connections.

E ED 737 Teaching Social Studies, Social Justice, and Literacy: Grades 3-6 (Units: 3)
Prerequisites: E ED 783, E ED 782, E ED 784, E ED 749. Must be taken concurrently with one or two of the following courses: E ED 777, E ED 747, E ED 757, E ED 748, E ED 758.
Frameworks and methods for implementing integrated curriculum in elementary school, focusing on social studies content and social justice perspective. Instruction in use of effective expository literacy strategies for students in grades 3-6. Field practicum required. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

E ED 738 Language and Literacy Development, TK-3 (Units: 3)
Prerequisite: Restricted to Multiple Subject Credential Program students.
Methods and materials in teaching reading/language arts to linguistically and culturally diverse students from preschool to grade 3. First and second language acquisition theories and their relationship to teaching literacy. (Plus-minus letter grade only)

E ED 746 Teaching Practicum Phase I (Units: 1-3)
Prerequisites: Acceptance to MSC program; must be taken concurrently with E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777).
Developmental field experience in a public elementary school under guidance of a resident teacher. Teaching is planned and practiced at the beginning level based on California State standards. May be repeated for a total of 4 units. (CR/NC grading only)
Course Attributes:
- Teacher Credential Program Crs

E ED 747 Teaching Practicum Phase II (Units: 1-3)
Prerequisites: E ED 746, E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777). Must be taken concurrently with E ED 757, E ED 782, E ED 777 (or E ED 784).
Developmental field experience in a public elementary school under the supervision of a resident teacher. Teaching planned and practiced at the developmental level, based on California State standards. May be repeated for a total of 3 units. (CR/NC grading only)
Course Attributes:
- Teacher Credential Program Crs

E ED 748 Teaching Practicum Phase III (Units: 1-7)
Final phase of student teaching conducted in a public elementary school under supervision of a resident teacher. Planned and practiced at the competency level. Assessment based on California State standards. May be repeated for a total of 12 units. (CR/NC grading only)
Course Attributes:
- Teacher Credential Program Crs

E ED 749 Second Language Acquisition in the Elementary School (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
First and second language acquisition theories and their relationship to second language learning; psychological, social, and linguistic aspects of second language acquisition of children; socio-political factors related to language issues. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

E ED 756 Teaching Practicum Seminar Phase I (Units: 1-3)
Prerequisites: Admission to multiple subject program; first semester enrollment. Must be taken concurrently with E ED 746, E ED 701, E ED 749, E ED 784 (or E ED 777).
Supports skill in planning, teaching, and assessing all students across elementary school curriculum. Instruction in classroom management. Addresses California K-12 content and English language standards. May be repeated for a total of 3 units. (CR/NC grading only)
Course Attributes:
- Teacher Credential Program Crs
E ED 757 Teaching Practicum Seminar Phase II (Units: 1-3)
Prerequisites: E ED 746, E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777). Must be taken concurrently with E ED 747, E ED 782, E ED 777 (or E ED 784).

Development of skills in planning, teaching, and assessing all students across the elementary school curriculum. Instruction in classroom management. Addresses California K-12 content and English language standards. May be repeated for a total of 3 units. (CR/NC grading only.)

Course Attributes:
- Teacher Credential Program Crs

E ED 758 Teaching Practicum Seminar Phase III (Units: 1-3)

Interdisciplinary and project based learning in the elementary school. Topics include home school communication and role of school as social services agency and legal issues. Preparation for final standards based teaching performance assessment. May be repeated for a total of 3 units. (CR/NC grading only)

Course Attributes:
- Teacher Credential Program Crs

E ED 760 Seminar on Social Issues and Curriculum Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Social issues and their influence on school organization and curriculum development. Patterns of organization and curriculum in elementary schools. (Plus-minus letter grade only)

E ED 761 School Mathematics: Problem Solving (Units: 3)
Prerequisite: Restricted to graduate students in the Secondary Education MA or Single Subject Credential program.

Curriculum development in mathematics. Problem solving strategies as a unifying theme for content selection. (Plus-minus letter grade only)
(This course is offered as E ED 761 and S ED 761. Students may not repeat the course under an alternate prefix.)

E ED 763 Integrating Language, Literacy, and Technology in Elementary School Curriculum (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Prepare elementary school teachers to provide English language arts instruction that is enhanced by the thoughtful and effective integration of technology. (Plus-minus letter grading only)

E ED 764 Elementary School Social Studies (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in social studies methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 765 Elementary School Science (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in science methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 767 Elementary School Creative Arts (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in creative arts methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 769 Practitioner Research in Elementary Classrooms (Units: 3)
Prerequisite: Multiple subject credential or consent of instructor.

Examination of methods of practitioner research that allow teachers to address problems of practice as they arise in the classroom. Students become familiar with relevant research literature and engage in targeted practitioner research relevant to their current teaching placement.

E ED 770 Teaching Integrated Literacy and Assessment, TK-5 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential Program.

On-going classroom instructional strategies highlighting Integrated approach to content and literacy acquisition. Administration and interpretation of a variety of assessments to identify and design instructional intervention. (AB/NC grading only)

E ED 771 Literacy Clinic II: Multidisciplinary Assessment and Remediation of Language and Literacy Problems (Units: 3)
Prerequisite: E ED 770.

Theory and proficiency in the practice and adaptation of test administration skills and interactive instructional strategies. Students assess and tutor K-12 children with reading and language problems. (AB/NC grading only)

E ED 772 Literacy Education Clinic I (Units: 1-3)
Prerequisites: Candidate in Reading Specialist Credential Program; must be taken concurrently with E ED 770.

Teach one-to-one struggling readers or provide instruction to small groups of struggling readers in an elementary school setting. Candidates use intervention strategies to improve reading. (CR/NC only)

E ED 773 Literacy Education Clinic II (Units: 1-3)
Prerequisites: Reading Specialist Candidate; E ED 770; and concurrent enrollment in E ED 771.

Teach in a school setting using intervention reading strategies to assist and support struggling readers who are adolescents. (CR/NC only)

E ED 777 Curriculum and Instruction in Science (Units: 3)
Prerequisite: Admission to Multiple Subject Credential program.

Planning, developing, teaching, and evaluating learning experiences in science. Performance based objectives. Classroom, 1 unit; laboratory, 2 units. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

E ED 781 Curriculum, Instruction, and Assessment for Teacher Leaders (Units: 3)
Prerequisite: E ED 760.

Curriculum, instruction, and assessment for elementary teachers. Examination of the role of leaders in teaching and learning and high quality professional development. (AB/NC grading only)
E ED 782 Teaching Reading/Language Arts K-3 (Units: 3-4)
Prerequisites: Admission to Multiple Subjects Credential program; could be taken concurrently with E ED 701, E ED 749, E ED 783, E ED 784 or E ED 777.

Research-based teaching practices for early literacy development. Systematic and explicit instruction in teaching a comprehensive literacy curriculum in grades K-3 that includes oral language development. Basic reading skills, strategic reading behavior, language arts skills, vocabulary and writing development. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

E ED 783 Developmental Teaching and Learning in Diverse School Settings, K-8 (Units: 3)
Prerequisites: Acceptance to MSC program; could be taken concurrently with E ED 701, E ED 749, E ED 782, E ED 784 or E ED 777.

Theory and research based examination of cognitive, social-emotional, ethical, and physical development in sociocultural contexts including special populations. Impact of culture, family, community, and school. Guided experience in schools. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

E ED 784 Curriculum and Instruction in Mathematics (CLAD Emphasis) (Units: 3)
Prerequisite: Admission to Multiple Subjects Credential program.

Methods and materials for teaching mathematics to linguistically and culturally diverse elementary school students. Review of content of mathematics curriculum, classroom organization, assessment, and guided experiences in schools. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

E ED 785 Literacy Theories: Connections to Classroom Practices (Units: 3)
Prerequisite: Enrolled in Elementary Education MA Concentration in Language and Literacy.

Research on literacy theories that have influenced education in the US. Examination of critical literacy theories, research, and the connections to classroom practices in elementary schools.

E ED 786 Seminar in Developmental Teaching and Learning (Units: 3)
Prerequisites: Restricted to graduate students enrolled in Multiple Subjects Credential program; concurrent enrollment in E ED 746 or E ED 747.

Examination of cognitive, social-emotional, ethical, and physical development of children in sociocultural contexts; interrelated impacts of culture, family, community, and school on development; educational research and its applications to create positive and productive learning environments. (Plus-minus AB/NC)

E ED 787 Foundations in Social Studies Curriculum and Instruction (Units: 3)
Prerequisite: Restricted to Multiple Subject Credential Program students.

Curriculum and instruction in elementary classrooms. Development of a critical perspective assists candidates in forming an educational philosophy derived from social justice and English Language Development (ELD) perspectives for culturally and linguistically diverse classrooms.

E ED 788 Curriculum and Instruction in Mathematics for Bilingual Teachers II: Deepening Content and Pedagogy (Units: 3)
Prerequisites: Restricted to Multiple Subject Credential Bilingual Program students; E ED 784.

Necessary language to teach mathematics in Spanish and English, and pedagogical content knowledge for teaching algebra, geometry, and probability for K-8. Curriculum development, assessment techniques, and culturally responsive practices are emphasized. (Plus-minus letter grade only)

E ED 796 Analyzing Cases of Mathematical Teaching (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Cases of mathematics teaching practice are a catalyst for analytic discussion of assessment, mathematical representation, and student misconceptions. Teaching decisions are evaluated in the context of real classroom situations with regard to their impact on student learning, motivation, and beliefs. (Plus-minus letter grade only)
(This course is offered as E ED 796 and S ED 796. Students may not repeat the course under an alternate prefix.)

E ED 799 Pact Independent Plan (Units: 1-3)

E ED 801 Practitioner Inquiry for Administration of Early Childhood Curricula (Units: 3)
Prerequisites: E ED 700, E ED 707, E ED 708, or consent of instructor.

Application of practitioner research for developing and evaluating early childhood curricula. Reflective practice and collaborative action research methodologies for coordination and administration of curricula. (Plus-minus letter grade only)

E ED 806 Leadership, Adult Supervision, and Family Advocacy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Comprehensive study and training in current research, theory, and implementation of administration and leadership goals, strategies, and programs for young children, families, and educators. Adult supervision, leadership, and advocacy in early childhood settings. (Plus-minus letter grade only)

E ED 807 Leadership Development in Mathematics Education (Units: 3)
Prerequisite: Consent of instructor.

Enhancement and development of mathematical ideas and instructional methodologies from a classroom perspective to a theoretical framework. Knowledge of curriculum development and leadership skills; dissemination to other teachers. (This course is offered as E ED 807 and S ED 807. Students may not repeat the course under an alternate prefix.)
E ED 820 Seminar in Infant-Toddler Group Care Education Programs (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Seminar in infant-toddler development. Theory, research, and practice in diverse settings. Temporary issues in infant-toddler care, cross-cultural perspectives, and caregiver models. (Plus-minus letter grade only)

E ED 850 Seminar in Early Childhood Mathematics and Science Curriculum (Units: 3)
Prerequisites: E ED 700, E ED 707, E ED 708, or consent of instructor.

Planning, developing instructional materials, and evaluating learning experiences for children ages pre-kindergarten to eight in mathematics and the life and physical sciences. (Plus-minus letter grade only)

E ED 856 Assessing Mathematical Thinking (Units: 3)
Prerequisite: Consent of instructor.

Assessment strategies for classroom use; dimensions of students' mathematical thinking and learning. Development of performance assessments includes open-ended tasks and portfolios. (This course is offered as E ED 856 and S ED 856. Students may not repeat the course under an alternate prefix.)

E ED 869 Enhancing Access for Bi-Literate Learner, TK-12 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential program.

Introduction to theories on language development for bilingual and bi-literate learners from preschool to 12th grade. Examining how bi-cultural and bilingual students develop bi-literacy. Investigating research-based instructional strategies that provide curriculum access to students in classroom settings. (Plus-minus letter grade only)

E ED 878 Multicultural Educational Theory and Practice for the Young Child (Units: 3)
Prerequisite: Consent of instructor.

Relationships among ethnic identity, culture, and human development; multicultural curriculum design and pedagogical strategies that recognize ethnic displays of competence and utilize cognitive preferences developed in particular socialization practices. (Plus-minus letter grade only)

E ED 882 Literacy Instruction in K-12 Classrooms (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Methods, materials, and assessment for teaching diverse reading/language arts to linguistically and culturally diverse students in grades K-12; linguistic and print concepts; reading comprehension; developmental strategies; guided experiences in schools. Preliminary Level I primarily intended for Education Specialist Credential students.

E ED 890 Seminar on Field Studies in the Elementary Classroom (Units: 3)
Prerequisite: ISED 797.

Topics in early childhood and elementary education: classroom-based research methods and reflective practice; planning and implementation of research, including literature review, research design, data collection, analysis, and presentation of findings. (CR/NC grading only)

E ED 895 Field Study (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Alternative culminating study for the Master of Arts in Education conducted under direction of graduate major adviser. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

E ED 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

An intensive study of a particular problem under direction of a member of the department. Open only to regularly enrolled students. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

E ED 899 Independent Study (Units: 1-3)
Prerequisite: Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled students.

An intensive study of a particular problem under direction of a member of the department.