INTRODUCTION

The Department of Elementary and Bilingual Education at Cal State Fullerton provides exemplary preparation for candidates dedicated to improving teaching and learning for all children. The faculty members in the department are nationally recognized for their contributions to the field of education. Moreover, the Department of Elementary and Bilingual Education provides programs that are nationally accredited (NCATE), in addition to meeting the California Commission on Teacher Credentialing (CCTC) requirements. The Department is highly regarded as a leader in education whose candidates are well-prepared to act as change agents for the future.

The department offers teacher credential and master’s programs in a variety of areas, both face to face and online.

The university mission, college philosophy and department theme emphasize the active social nature of learning, the interconnection among ways of learning, the dispositions of inquiry and the relationship to the larger diverse society. The department is strongly committed to these themes and dispositions.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following goals and learning outcomes have been established for students pursuing a degree in elementary and bilingual education:

Knowledgeable and competent specialists

- Demonstrate a strong foundation in subject matter knowledge or field of study
- Demonstrate a strong understanding and implementation of pedagogical skills or skills in chosen field
- Use technology as a resource

Reflective and responsive practitioners

- Promote diversity
- Make informed decisions
- Engage in collaborative endeavors
- Think critically

Committed and caring professionals

- Be agents for change
- Maintain professional and ethical standards
- Become lifelong learners

Application Deadlines

Please visit ed.fullerton.edu/edel for information on the credential and master’s programs.
THE PROFESSIONAL TEACHER PREPARATION PROGRAM FOR THE MULTIPLE SUBJECT (ELEMENTARY) CREDENTIAL PROGRAM

The Professional Teacher Preparation Program for the Multiple Subject (Elementary) Credential prepares individuals to teach in self-contained classrooms at the K-12 grade level where multiple subjects are taught. Candidates may select a two- or three-semester credential program sequence. The department also offers a Bilingual Authorization option in Spanish. Applicants to the credential program must hold a bachelor's degree, or have completed their general education and have no more than six units to complete in their major. Applicants must pass the CSET before entering the program. For more information visit ed.fullerton.edu/edel/.

Freshmen may opt to simultaneously pursue an undergraduate major and a teaching credential through the Streamlined Teacher Education Program (STEP), which leads to a Multiple Subject Credential or to a basic Education Specialist Credential. The section on Teaching Credentials in this catalog contains more information on STEP.

California law requires an academic major; there is no major in education. Students who opt for STEP select a Liberal Studies or Child and Adolescent Development major. Students are encouraged to attend a program overview during the junior and senior year. Overview schedules may be found at ed.fullerton.edu/edel.

Two-Semester Program Sequence

The Multiple Subject Credential Program two-semester sequence is as follows:

First Semester
EDEL 430 Foundations in Elementary School Teaching (3)
EDEL 433 Language Arts and Reading Instruction in the Public Schools (3)
EDEL 434 Methods and Inquiry for Teaching English Learners (2)
EDEL 435 Mathematics Curriculum and Instruction in Elementary School Teaching (2)
EDEL 438 Supervised Fieldwork in Elementary Teacher Education (2)
EDEL 439 Student Teaching in the Elementary School (5)
EDEL 450 Visual and Performing Arts Methods: Art, Dance, Drama and Music (1)
EDEL 453A Teaching Performance Assessment Support (1)

Second Semester
EDEL 429 Integrated Curriculum and Instruction in the Elementary School (3)
EDEL 436 Science Curriculum and Instruction in Elementary School Teaching (2)
EDEL 438 Supervised Fieldwork in Elementary Teacher Education (1)
EDEL 439 Student Teaching in the Elementary School (9)
EDEL 450 Visual and Performing Arts Methods: Art, Dance, Drama and Music (1)
EDEL 452 P.E., Health and Mainstreaming Education (1)
EDEL 453B Teaching Performance Assessment Support (1)

Three-Semester Credential Program Sequence

The three-semester program is for individuals who wish to take classes during evenings and Saturdays, with some required daytime involvement in elementary schools. Student teaching requires a full daytime commitment.

First Semester
EDEL 430 Foundations in Elementary School Teaching (3)
EDEL 433 Language Arts and Reading Instruction in the Public Schools (3)
EDEL 434 Methods and Inquiry for Teaching English Learners (2)
EDEL 435 Mathematics Curriculum and Instruction in Elementary School Teaching (2)
EDEL 438 Supervised Fieldwork in Elementary Teacher Education (1)
EDEL 453A Teaching Performance Assessment Support (1)

Second Semester
EDEL 429 Integrated Curriculum and Instruction in the Elementary School (3)
EDEL 436 Science Curriculum and Instruction in Elementary School Teaching (2)
EDEL 439 Student Teaching in the Elementary School (9)
EDEL 451 Community, School and Classroom Issues (1)
EDEL 453B Teaching Performance Assessment Support (1)

Third Semester
EDEL 437 Social Studies Curriculum and Instruction in Elementary School Teaching (2)
EDEL 439 Student Teaching in the Elementary School (9)
EDEL 451 Community, School and Classroom Issues (1)
EDEL 452 P.E., Health and Mainstreaming Education (1)
EDEL 453B Teaching Performance Assessment Support (1)

Combined Credential/Master's Program

The Combined Credential/Master's program is a full-time, 16-month program completed in four semesters, including summer. It includes online courses. Visit ed.fullerton.edu/edel for details.

Bilingual Authorization

A Multiple Subject Credential with a bilingual-bicultural (Spanish-English) emphasis is available. For more details, visit: ed.fullerton.edu/edel.

Admission Procedures and Criteria

Admission to the university does not include admission to the Multiple Subject Credential Program (MSCP). Students must apply for admission to the MSCP the semester prior to anticipated enrollment in the program. Check ed.fullerton.edu/edel for details and application procedures and deadline.

Applicants for admission into the Multiple Subject Credential Program are evaluated at several transition points measuring candidates' progress toward meeting program outcomes as outlined
in the College of Education’s conceptual framework. Specifically, these include knowledge (scholarship, breadth of understanding), skills (professional aptitude, physical and mental fitness) and dispositions (character). Evidence related to these criteria that is assessed at time of application can be found at: ed.fullerton.edu/edel.

Program Continuation
Once admitted, continuation in the program is based on continuous and satisfactory progress as assessed at specific transition points throughout the program, including passage of the California Teaching Performance Assessments (TPA).

Application for Teaching Credentials
Upon completion of a multiple subject credential program the credential candidate must submit an application to the Commission on Teacher Credentialing through the CSUF credential analyst and verify passage of the Reading Instruction Competence Assessment (RICA). The credential analyst is located in the Credential Preparation Center in College Park 740. Additional information on the credential application process is available in the Credential Preparation Center.

MASTER OF SCIENCE IN EDUCATION (30 UNITS)
Admission to Graduate Standing – Conditionally Classified
Students must meet the CSU requirements for admission to a master’s degree program. Please consult the Graduate Admissions section in this catalog for complete information.

BILINGUAL/BICULTURAL EDUCATION CONCENTRATION
Graduate Standing – Classified
A student who meets the admission requirements and the following requirements may be granted classified graduate standing:
• Development of an approved study plan
• Basic teaching credential or equivalent experience
• Approved major (minimum of 24 units upper division or graduate)
• 3.0 grade-point average on previous academic and related work
• Language competence (English and Spanish) as determined by satisfactory interviews or coursework
• Completion of SPAN 466

Credit will be given for previous postbaccalaureate studies when possible. Otherwise, well-qualified students may be admitted with limited subject or grade deficiencies, but these deficiencies must be removed.

Core Coursework (9 units)
EDEL 500  Culture and Curriculum (3)
EDEL 511  Survey of Educational Research (3)
EDEL 541  Culture and Education of Latino Students (3)

Concentration Courses (18 units)
EDEL 542  Current Issues and Problems in Bilingual-Bicultural Education (3)
CHIC 450  The Chicano and Temporary Issues (3)
CHIC 480  The Immigrant and the Chicano (3)
One of the following:
TESL 509, 510
One of the following:
TESL 527, 595

Elective (3 units)
Chosen in consultation with and approved by the graduate adviser.

Culminating Experience (3 units)
EDEL 594, 597, 598
For further information, consult the graduate program adviser.

EDUCATIONAL TECHNOLOGY CONCENTRATION
An online option is available for the Concentration in Educational Technology.

Graduate Standing – Classified
A student who meets the admission requirements and the following requirements may be granted classified graduate standing:
• Development of an approved study plan
• Basic teaching credential or equivalent experience
• Approved major (minimum of 24 units upper division or graduate)
• 3.0 grade-point average on previous academic and related work

Credit will be given for previous post baccalaureate studies when possible. Otherwise well-qualified students may be admitted with limited subject or grade deficiencies, but these deficiencies must be removed.

Core Classes (9 units)
EDEL 511  Survey of Educational Research (3)
EDEL 529  Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536  Curriculum Theory and Development (3)

Concentration Courses (18 units)
EDEL 512  Level Two Technology Proficiencies for Teachers in K-8 Schools (3)
OR EDEL 523  Distance Education Issues and Trends in Schools (3)
EDEL 515  Technology and Problem Solving in Schools (3)
EDEL 518A  Issues in the Instructional Design of Software for Use in Schools (3)
EDEL 518B  Multimedia Development and Instruction in the Classroom (3)
EDEL 522  Web Design for Instruction in Schools (3)
EDEL 590  Technology Professional Development in Schools (3)

**Culminating Experience (3 units)**
EDEL 594, 597, 598

**ELEMENTARY CURRICULUM AND INSTRUCTION CONCENTRATION**

The Concentration in Elementary Curriculum and Instruction helps career classroom teachers prepare for curriculum and instructional leadership in one or more of the following areas: elementary classroom teaching; technology in education; meeting the needs of diverse learners; early childhood education; math/science education; professional inquiry; and staff development in public and private schools. Students may follow the study plan for the concentration, or elect to specialize in one of six emphasis areas, below. Online option available.

**Graduate Standing – Classified**

A student who meets the admission requirements and the following requirements may be granted classified graduate standing:

- Development of an approved study plan
- Basic teaching credential or equivalent experience
- Approved major (minimum of 24 units upper division or graduate)
- Cumulative grade-point average of 3.0, or 3.0 GPA in the last 60 units

Credit will be given for previous postbaccalaureate studies when possible. Otherwise well-qualified students may be admitted with limited subject or grade deficiencies, but these deficiencies must be removed.

**Core Coursework (9 units)**
EDEL 511  Survey of Educational Research (3)
EDEL 529  Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536  Curriculum Theory and Development (3)

**Diversity Emphasis Coursework (9 units)**
EDEL 530  Graduate Studies in Elementary Education: Second Languages (3)
EDEL 541  Culture and Education of Latino Students (3)
EDEL 542  Current Issues and Problems in Bilingual-Bicultural Education (3)

**Curriculum-Focused Coursework (15 units)**
EDEL 528, 531, 532, 533, 534, 535, 548, 571

**Elective (3 units)**
Elective units are chosen in consultation with and approved by the graduate adviser.

**Culminating Experience (3 units)**
EDEL 594, 597, 598

**EMPHASIS IN DIVERSITY**

Admission to Graduate Standing – Conditionally Classified/Classified

The requirements for admission to conditionally classified and classified standing are the same as those for the M.S. in Education concentration in Elementary Curriculum and Instruction.

**Core Coursework (9 units)**
EDEL 500  Culture and Curriculum (3)
EDEL 511  Survey of Educational Research (3)
EDEL 529  Graduate Studies: Learning Theory for Classroom Use (3)
Diversity Emphasis Coursework (9 units)
EDEL 530  Graduate Studies in Elementary Education: Second Languages (3)
EDEL 541  Culture and Education of Latino Students (3)
EDEL 542  Current Issues and Problems in Bilingual-Bicultural Education (3)

**Curriculum-Focused Coursework (15 units)**
EDEL 528, 531, 532, 533, 534, 535, 548, 571

**Elective (3 units)**
Elective units are chosen in consultation with and approved by the graduate adviser.

**Culminating Experience (3 units)**
EDEL 594, 597, 598

**EMPHASIS IN EARLY CHILDHOOD EDUCATION**

Admission to Graduate Standing – Conditionally Classified/Classified

The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.

**Core Coursework (9 units)**
EDEL 511  Survey of Educational Research (3)
EDEL 529  Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536  Curriculum Theory and Development (3)

**Coursework in Early Childhood Emphasis (9 units)**
EDEL 528  Reading/Language Arts in the Early Childhood Curriculum (3)
EDEL 538  Teaching and Learning in the Early Childhood Classroom (3)
EDEL 548  Social Sciences, Science, and Math in Early Childhood Education (3)

**Curriculum-Focused Coursework (6 units)**
EDEL 530, 531, 532, 533, 534, 535, 537, 571
Elective (3 units)
Elective units are chosen in consultation with and approved by the graduate adviser.

Culminating Experience (3 units)
EDEL 594, 597, 598
For further information, consult the graduate program adviser.

EMPHASIS IN PROFESSIONAL INQUIRY AND PRACTICE
Admission to Graduate Standing – Conditionally Classified/Classified
The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Core Courses (9 units)
EDEL 511 Survey of Educational Research (3)
EDEL 529 Graduate Studies: Learning Theory for Classroom Use (3)
One of the following:
EDEL 536 Curriculum Theory and Development (3)
EDEL 500 Culture and Curriculum (3)

Emphasis Courses (9 units)
EDEL 521 The Study of Teaching (3)
EDEL 551 Assessment Across the Curriculum (3)
EDEL 552 Family, Community, and Professional Partnerships (3)

Curriculum Course (3 units)
EDEL 528, 530, 531, 532, 533, 534, 535, 548

Adviser-Approved Electives (6 units)

Culminating Experience (3 units)
EDEL 594, 597, 598

EMPHASIS IN MATH AND SCIENCE
Admission to Graduate Standing – Conditionally Classified/Classified
The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Core Courses (9 units)
EDEL 511 Survey of Educational Research (3)
EDEL 529 Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536 Curriculum Theory and Development (3)

Emphasis Courses (12 units)
Select from the following:
EDEL 492 Gender Issues in Math and Science (3)
EDEL 515 Technology and Problem Solving in Schools (3)
EDEL 532 Graduate Studies in Elementary Education: Mathematics (3)
EDEL 533 Graduate Studies in Elementary Education: Science (3)
EDEL 571 Graduate Studies in Elementary Education: Science Education Practicum (3)

Adviser-Approved Electives (6 units)

Culminating Experience (3 units)
EDEL 594, 597, 598
For further information, consult the graduate program adviser.

EMPHASIS IN STAFF DEVELOPMENT
Admission to Graduate Standing – Conditionally Classified/Classified
The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Core Coursework (9 units)
EDEL 511 Survey of Educational Research (3)
EDEL 529 Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536 Curriculum Theory and Development (3)

Emphasis Courses (9 units)
EDEL 521 The Study of Teaching (3)
EDEL 539 Clinical Supervision: Analyzing Effective Teaching (3)
EDEL 553 Models of Teaching (3)

Curriculum-Focused Coursework (6 units)
EDEL 528, 530, 531, 532, 533, 534, 535, 537, 548, 571

Elective (3 units)
Elective units are chosen in consultation with and approved by the graduate adviser.

Culminating Experience (3 units)
EDEL 594, 597, 598

EMPHASIS IN TECHNOLOGY IN EDUCATION
Admission to Graduate Standing – Conditionally Classified/Classified
The requirements for admission to conditionally classified and classified standing are the same as those for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Core Coursework (9 units)
EDEL 511 Survey of Educational Research (3)
EDEL 529 Graduate Studies: Learning Theory for Classroom Use (3)
EDEL 536 Curriculum Theory and Development (3)
Coursework in Technology in Education Emphasis (12 units)
EDEL 512  Level Two Technology Proficiencies for Teachers in K-8 Schools (3)
OR EDEL 523  Distance Education Issues and Trends in Schools (3)
EDEL 515  Technology and Problem Solving in Schools (3)
EDEL 522  Web Design for Instruction in Schools (3)
EDEL 590  Technology Professional Development in Schools (3)

Curriculum-Focused Coursework (6 units)
EDEL 528, 530, 531, 532, 533, 534, 535, 537, 548, 571

Culminating Experience (3 units)
EDEL 594, 597, 598

COMPUTING CERTIFICATE FOR ELEMENTARY SCHOOL TEACHERS
The Computing Certificate for Elementary School Teachers certificate program provides a broad understanding of the applications of technology in the elementary school classroom and the instructionally related tasks in the public schools.

Required Courses (12 units)
EDEL 512  Level Two Technology Proficiencies for Teachers in K-8 Schools (3)
OR EDEL 523  Distance Education Issues and Trends in Schools (3)
EDEL 515  Technology and Problem Solving in Schools (3)
EDEL 522  Web Design for Instruction in Schools (3)
EDEL 590  Technology Professional Development in Schools (3)

For further information, consult the Elementary Education graduate program adviser.

ELEMENTARY AND BILINGUAL EDUCATION COURSES
Courses are designated EDEL in the class schedule.

110 Explorations in Education (3)
(Same as EDSC 110)

315 Introduction to Elementary Classroom Teaching (3)
Exploratory course with field assignments for students considering career in elementary school teaching. Campus seminars and overview of admission requirements for the Multiple Subject Credential Program. Students taking this course to meet the prerequisite for either the Multiple Subject or the Special Education Credential Program must earn a “B-” (2.7) or better to receive a grade of Credit. Fieldwork required.

325 Cultural Pluralism in Elementary Schools (3)
Prerequisite: completion of General Education Category D1. Culture and cultural pluralism in elementary schools. Topics: Examination of one’s own beliefs and values; classroom practices and materials that promote equity; strategies for learning about students; history/traditions of cultural groups; and assessment of multicultural education programs. A “B-” (2.7) or better is required to pass the course.

429 Integrated Curriculum and Instruction in the Elementary School (3)
Prerequisite: admission to second semester of Multiple Subject Credential Program. Additional study of elementary curriculum emphasizing language arts, integrated instruction across the curriculum and assessing learning outcomes. Must be taken for a letter grade if enrolled in the credential program. A “B-” (2.7) or better is required to pass the course.

430 Foundations in Elementary School Teaching (3)
Prerequisite: admission to Multiple Subject Credential Program. Curriculum of the elementary school, instructional planning, principles of effective teaching, generic instructional strategies, classroom management and legal issues in education. Must be taken for a letter grade if enrolled in the credential program. A “B-” (2.7) or better is required to pass the course.

433 Language Arts and Reading Instruction in the Public Schools (3)
Prerequisite: admission to Education Specialist Program. Principles of reading instruction, elements of the language arts program including literature-based reading, content area reading, the role of phonics, emergent literacy, and diagnosis of reading problems. Must be taken Credit/No Credit. A “B-” (2.7) or better is required to receive a grade of Credit.

434 Methods and Inquiry for Teaching English Learners (2)
Prerequisites: admission to Multiple Subject Credential Program. Theoretical foundations, legal issues and school programs for the education of English learners. Assessment, materials, methods and strategies for English language development and learning across the curriculum for elementary school English learners. Must be taken Credit/No Credit. A “B-” (2.7) or better is required to receive a grade of Credit. One or more sections offered online.

435 Mathematics Curriculum and Instruction in Elementary School Teaching (2)
Prerequisites: admission to Multiple Subject Credential Program. Instructional materials, learning styles, inquiry, concept learning, problem solving, various instructional strategies applied to teaching mathematics. Must be taken Credit/No Credit. A “B-” (2.7) or better is required to receive a grade of Credit.
Science Curriculum and Instruction in Elementary School Teaching (2)
Prerequisites: admission to Multiple Subject Credential Program. Instructional materials, learning styles, inquiry, concept learning, problem solving, various instructional strategies applied to teaching science. Must be taken Credit/No Credit. A "B-" (2.7) or better is required to receive a grade of Credit.

Social Studies Curriculum and Instruction in Elementary School Teaching (2)
Prerequisite: admission to Multiple Subject Credential Program. Instructional materials, learning styles, inquiry, concept learning, problem solving, various instructional strategies applied to teaching social studies. Must be taken Credit/No Credit. A "B-" (2.7) or better is required to receive a grade of Credit.

Supervised Fieldwork in Elementary Teacher Education (1-2)
Prerequisites: admission to Multiple Subject Credential Program. Students serve as teacher participants in an assigned elementary school classroom. Must be taken Credit/No Credit. A "B-" (2.7) or better is required to receive a grade of Credit.

Student Teaching in the Elementary School (4-14)
Prerequisites: EDEL 430, 433, 438 and admission to student teaching. Participation in a regular elementary school teaching program for the full school day. Must be taken Credit/No Credit. A "B-" (2.7) or better is required to receive a grade of Credit.

Methods and Inquiry for Bilingual Teachers (3)
Prerequisite: admission to multiple- or single-subject bilingual credential program or consent of instructor. Prepares bilingual teacher candidates to teach Spanish-speaking students. Program models for bilingual instruction, methods for teaching reading and content areas in bilingual settings, materials and assessment. Conducted in Spanish and English; 20 hours of fieldwork required.

Methods and Inquiry for Asian Language BCLAD Candidates (3)
Prerequisite: admission to Multiple Subject Credential Program with BCLAD emphasis (Asian languages). Equity issues, curriculum and instruction for Asian language-speaking elementary students.

Visual and Performing Arts Methods: Art, Dance, Drama and Music (1)
Prerequisite: admission to Multiple Subject Credential Program. Instructional materials, learning styles, integration and strategies as they apply to teaching the arts in elementary education. Must be taken Credit/No credit. A "B-" (2.7) or better is required to receive a grade of Credit.

Community, School and Classroom Issues (1)
Prerequisites: admission to Multiple Subject Credential Program. Current issues of elementary school teaching, including classroom management, parent-teacher communication, school law and child abuse reporting. Must be taken Credit/No Credit. A "B-" (2.7) or better is required to receive a grade of Credit.
502E Pedagogy, Assessment and Support for New Teachers (3)
Prerequisite: Multiple or Single Subject Preliminary Credential; concurrent participation in the CSUF Clear Credential Program. Formative assessment and professional development for new teachers via utilization of state-approved formative assessment system. Teaching effectiveness, including analysis of context for teaching and initial assessment of teaching. (Same as EDSC 502E)

502F Pedagogy Assessment and Support for New Teachers (Semester 2) (3)
Prerequisite: Multiple or Single Subject Preliminary Credential; concurrent participation in the CSUF Clear Credential Program. Formative assessment and professional development for new teachers via utilization of state-approved formative assessment system. Teaching effectiveness, including action research and review and reflection on teaching and learning. (Same as EDSC 502F)

511 Survey of Educational Research (3)
Prerequisite: teaching credential. Descriptive statistics and statistical inferences in educational research. Representative research papers. Principles of research design. Prepare papers using research findings. One or more sections offered online.

512 Level Two Technology Proficiencies for Teachers in K-8 Schools (3)
Prerequisite: teaching credential. Theoretical basis and strategies for improving teaching of K-8 students through use of multimedia and other technologies.

515 Technology and Problem Solving in Schools (3)
Prerequisites: Level 2 technology proficiency and teaching credential. Software and web-based applications that promote problem-solving in schools. Research and discussion of issues, implications of and implementation strategies for using technology to enhance students’ problem-solving skills. One or more sections offered online.

518A Issues in the Instructional Design of Software for Use in Schools (3)
Prerequisite: Level 2 technology proficiency. Issues related to the instructional design of courseware designed specifically for classroom students. Topics include learning principles, learner characteristics, instructional strategies, screen design, response analysis, feedback and interactivity. One or more sections offered online.

518B Multimedia Development and Instruction in the Classroom (3)
Prerequisite: EDEL 518A. Application and instruction of computer-based instructional design principles in the development for classroom software and multimedia projects. Topics include planning and assessment, design principles, and development of tools. One or more sections offered online.

521 The Study of Teaching (3)
Prerequisite: EDEL 511 and teaching credential. The teaching process. Research methodology used to analyze teaching, the current knowledge of the association between teaching processes and student learning, and the implications of the research for the classroom.

522 Web Design for Instruction in Schools (3)
Prerequisite: Level 2 technology proficiency, EDEL 515 or consent of instructor. Design, development, and implementation of web pages and sites for instructional purposes. Issues surrounding using the World Wide Web for instruction. Fieldwork required. Offered only online.

523 Distance Education Issues and Trends in School (3)
Prerequisite: Level 2 technology proficiency or consent of instructor. Issues and trends in distance education for teaching and learning in schools. Draws on research in K-12, higher education and corporate domains. Offered only online.

527 Graduate Seminar in Developmental Psychology: The Human from Conception Through Eight Years (3)
Prerequisites: teaching credential. Physical, social, cognitive-intellectual, and emotional development of individuals from conception to middle childhood. Current problems, theories and research.

528 Reading/Language Arts in the Early Childhood Curriculum (3)
Prerequisite: teaching credential. Significant research, curriculum developments and materials, and current instructional strategies for promoting emergent literacy in children.

529 Graduate Studies: Learning Theory for Classroom Use (3)
Prerequisite: teaching credential. Major theoretical positions in planning and interpreting classroom practices. Educational research findings, implications for curriculum development and teaching practices. One or more sections offered online.

530 Graduate Studies in Elementary Education: Second Languages (3)
Prerequisites: EDEL 434 and teaching credential. Significant research, curriculum developments and materials, and criteria for planning and improving second language programs, including those for English as a second language.

531 Graduate Studies in Elementary Education: Integrated Language Arts (3)
Prerequisite: teaching credential. Significant research, trends and problems in teaching the fundamental skills of communication; curriculum development and materials, and criteria for planning and improving integrated language arts programs.

532 Graduate Studies in Elementary Education: Mathematics (3)
Prerequisite: teaching credential. Significant research, curricular developments and materials, criteria for planning and improving mathematics programs and instruction. One or more sections offered online.

533 Graduate Studies in Elementary Education: Science (3)
Prerequisite: teaching credential. Research and materials in science education and criteria for planning and improving science programs and instruction.
534 Graduate Studies in Elementary Education: Social Studies (3)
Prerequisite: teaching credential. Research developments and materials, criteria for planning and improving social studies programs, and current techniques of teaching.

535 Graduate Studies in Elementary Education: Reading in the Language Arts Program (3)
Prerequisite: teaching credential. Research developments and materials, criteria for planning and improving reading instruction in the integrated language arts programs, current instructional strategies and the role of children's literature.

536 Curriculum Theory and Development (3)
Prerequisite: teaching credential. School curriculum, including the forces operating on the curriculum and the participants involved in curriculum building. Process of curriculum building. One or more sections offered online.

537 Graduate Studies: Current Issues and Problems (3)
Prerequisite: teaching credential. Problems and issues in elementary and secondary education, their causes and possible solutions. One or more sections offered online.

538 Teaching and Learning in the Early Childhood Classroom (3)
Prerequisite: teaching credential. Application of significant research in the education of young children. Current instructional strategies and criteria for planning and improving programs in early childhood education.

539 Clinical Supervision: Analyzing Effective Teaching (3)
Prerequisite: teaching credential. Systematic, research-based approach. Basic components needed by teachers, staff developers, and administrators to improve their instructional skills. Principles of learning applied to supervision and applied practice in analyzing the instructional process.

541 Culture and Education of Latino Students (3)
Prerequisite: Admission to credential program or master's program. Impact of historical, social, political and economic forces on educational experiences for Latino students in the U.S., in particular, those of Mexican origin. Immigration, migration, language and culture with respect to educational attainment. (Same as EDSC 541)

542 Current Issues and Problems in Bilingual-Bicultural Education (3)
Prerequisite: teaching credential. Problems and issues in the development and implementation of bilingual-bicultural education.

548 Social Studies, Science, and Math in Early Childhood Education (3)
Prerequisite: teaching credential or equivalent experience. Current curriculum standards and instructional options in social studies, science, and mathematics in early childhood education. Content, process skills and literature connections.

551 Assessment Across the Curriculum (3)
Prerequisite: teaching credential. Improving student performance through assessment, self-assessment, and student goals setting; establishing congruence between purposes, audiences, and instruments used. Design and selection of instruments, including performance assessment, portfolio, observation and personal communication forms for standards-based assessment.

552 Family, Community and Professional Partnership (3)
Prerequisite: teaching credential. Value of educational partnerships between families, teachers and the community. Inquiry and development of strategies to develop partnerships, address and overcome barriers, and sustain partnerships to enhance the education of children. One or more sections offered online.

553 Models of Teaching (3)

571 Graduate Studies in Elementary Education: Science Education Practicum (3)
Prerequisite: EDEL 533. Strategies for effectively teaching and assessing science content knowledge, science process skills, and scientific attitudes in the elementary school; includes field assignments in elementary schools (1 unit - 4 hours per week); seminars (2 units - 2 hours per week). Principles of effective staff development in elementary science education.

590 Technology Professional Development in Schools (3)
Prerequisites: Level 2 technology proficiency, EDEL 522, 523. Planning, implementing and evaluating technology professional development in schools. Writing grants, acting as a change agent and serving as a technology leader in a school. Fieldwork required.

594 Research Seminar (3)
Prerequisite: 3.0 GPA and consent of instructor. Preparation, evaluation, development and presentation of curriculum research proposals culminating in a graduate project. Individuals and groups will participate in critiquing proposals, curriculum projects and research results. One or more sections offered online.

597 Project (1-3)
Prerequisite: 3.0 GPA and consent of instructor. Individual research on an empirical project, with conferences with the instructor, culminating in a project.

598 Thesis (1-3)
Prerequisite: 3.0 GPA and consent of instructor. Individual research with conferences with the instructor, culminating in a thesis.

599 Independent Graduate Research (1-3)
Prerequisite: teaching credential, one year of teaching experience, and consent of instructor. Independent inquiry.