Education

College of Education

EDUC 100. The Study of the Future: An Interdisciplinary Approach. 3 credits.
Introduces the student to an interdisciplinary study of the future within the context of education. Various topics include population, science/technology, lifestyle, economics, international relations, energy and religion. Prerequisite: completion of a Second Language. 1-6 credits.

EDUC 300. Foundations of American Education. 3 credits.
A study of the practices and issues that affect American education. Consideration is given to such topics as philosophical approaches to education, history of American education, and the organizational and cultural aspects of schools which influence educational practices.

EDUC 310. Teaching in a Diverse Society. 3 credits.
This course will examine how personal and professional values, attitudes, beliefs and behaviors affect teaching and learning. The pre-service teachers will develop an understanding of similar unique characteristics of Pre-K to 12 grade students and their families, including culture, race, ethnicity, heritage language and learning abilities, gender, socialization and sexual orientation. Corequisites: MIED 311 and READ 312 for middle students.

EDUC/EXED 312. Field Experience in Special Education and Diversity. 1 credit.
Students devote 30 clock hours to activities in school and nonschool settings that emphasize diversity of individuals and families. Corequisite: EDUC 310.

EDUC 370. Instructional Technology. 3 credits.
This course introduces educators to the concept of content knowledge, pedagogical knowledge and technological knowledge acting together as one unit to provide successful learning opportunities with educational technology. Learners will develop competencies that will enable them to appropriately select and integrate technology into the teaching and learning process.

EDUC 381. Field Experience in English as a Second Language. 3 credits.
The course provides supervised field experiences in working with English as a Second Language students, PK-12. This course will introduce students to teaching English as a Second Language and will provide opportunities to work with English language learners in the classroom.

EDUC 401. Problems in Education. 1-3 credits.
Workshop experiences for the development and training of teachers. Corequisites: EDUC 380 and permission of the program coordinator.

EDUC 416. School Discipline and Classroom Management. 1 credit.
Theory and practices in classroom management and discipline, including specific models and the various legal aspects will be examined.

EDUC 430. General Education Curriculum K-12 Overview. 1 credit.
The course will provide an overview of curriculum in grades K-12. An understanding of the goals, content, materials and trends associated with the curriculum will be addressed. Corequisites: READ 430, MIED 530 and EDUC 410.

EDUC 480. Student Teaching. 3-12 credits.
Enables students to apply, in the public school classrooms and the comprehensive children development programs, those skills and attitudes acquired in all components of teacher education. Under the guidance of a field supervisor, candidates will develop the skills and attitudes that will enable them to successfully function in the classroom. Prerequisites: Completion of ESL tutorial requirements.

EDUC 482. Professional Development, Partnership and Advocacy. 3 credits.
This course introduces students to the role of the teacher in the professional development of the school and the community. It also emphasizes the importance of collaboration with other members of the educational community in the development of effective professional development programs.

EDUC 483. Number, Operations, Algebraic and Geometric Reasoning. 3 credits.
The course focuses on the content, processes, and strategies for teaching mathematics in the elementary classroom. It also focuses on the appropriate methods for teaching mathematics to students with diverse needs.

EDUC 484. Children and Social Studies. 3 credits.
This course is a study of content, processes, pedagogy and materials for teaching social studies in the elementary classroom. Knowledge of cognitive development as applied to the selection of content and methodology for elementary learners will be examined. Prerequisites: EDUC 308, EDUC 372, EDUC 310, EDUC 311 and READ 366. Corequisites: EDUC 430, EDUC 411, EDUC 433 and EDUC 434.

EDUC 485. Children and Science. 3 credits.
This course provides opportunities for professional development from professional associations, universities, and other organizations across Pk-16.

EDUC 490. Special Topics in Education. 1-4 credits.
In-depth examination of selected topics which are of current importance in the field of education. Offered only with approval of School of Education director. May be repeated for credit when course content changes. Prerequisites: At least junior standing and consent of the instructor.

EDUC 499 A, B, C, Honors. 1-6 credits.
Independent research topics initiated and completed by qualified upper-division students. See catalog descriptions entitled “Graduation with Distinction” and “Graduation with Honors.”

Elementary Education

College of Education

ELED 308. Child Development: Birth Through Adolescence. 3 credits.
Skills for observing, recording and interpreting the behavior of children ages three through 12 will be developed so that adult intervention and guidance is appropriate and meaningful. Prerequisites: PSYC 160 and admission to teacher education. Corequisites: ELED 372, ELED 310, ELED 311 and READ 366.

ELED 310. Diversity in Elementary Education with Service Learning. 3 credits.
This course guides students to critically examine their own perspectives regarding diversity in our society. Through this course, students will expand their awareness and understanding of individuals and groups apparently different from themselves. Students will explore pedagogical issues and practices in the classroom that embrace the whole community of learners and their families. Prerequisite: Admission to teacher education. Corequisites: ELED 372, ELED 308, ELED 311 and READ 366.

ELED 311. Practicum with a Focus on Learners and Learning. 3 credits.
This field experience and seminar support the study of child development and learning in an organized environment. Through direct observation and interactions with children in a classroom setting, candidates will examine and reflect on how children develop and learn. Candidates will explore how their own personal attitudes, assumptions and behaviors toward students and their families are influenced by class, cultural and linguistic backgrounds. Prerequisite: Admission to teacher education. Corequisites: ELED 372, ELED 308, ELED 310 and READ 366.

ELED 411. Practicum with a Focus on Curriculum Integration and Guiding Behavior. 3 credits.
This course provides opportunities for students to develop and practice their teaching skills in the classroom. It also provides opportunities for students to develop and practice their social skills with children in a classroom setting.

ELED 412. Children and Science. 3 credits.
This course is a study of content, processes, pedagogy and materials for teaching science in the elementary classroom. Knowledge of cognitive development as applied to the selection of content and methodology for elementary learners will be examined. Prerequisites: EDUC 308, EDUC 372, EDUC 310, EDUC 311 and READ 366. Corequisites: EDUC 430, EDUC 411, EDUC 433 and EDUC 434.

ELED 433. Children and Mathematics: Number, Operations, Algebraic and Geometric Reasoning. 3 credits.
The first of two courses that provides students with knowledge, skills and understanding of design and implement for effective, developmentally appropriate mathematics instruction for grades PreK-6. Emphasis on children's mathematical learning and pre-numerical stages through the acquisition of advanced numerical processes and operations and connections to geometric and algebraic reasoning. Prerequisites: MATH 107, MATH 108, MATH 207 and READ 366. Corequisites: EDUC 430, EDUC 411, EDUC 432 and EDUC 434.

ELED 434. Children and Social Studies. 3 credits.
This course is a study of content, processes, pedagogy and materials for teaching social studies in the elementary classroom. Knowledge of cognitive development as applied to the selection of content, methods, and materials and strategies for organizing the learning environment for elementary learners will be examined. Prerequisite: ELED 311. Corequisites: ELED 411, ELED 432, ELED 433 and READ 436.

ELED 490. Special Studies in Elementary Education. 1-3 credits.
Designed to give students opportunities to complete independent research on educational problems under faculty guidance. The plan for the study must be presented to the department head in prescribed form for approval prior to registration.

Engineering

Department of Engineering

ENGR 101. Engineering First Year Student Seminar. 1 credit. (Offered Fall)
This seminar course will introduce the engineering curriculum and career options to first-year students and will describe how various elements of the curriculum and available electives in other disciplines relate to the goals and objectives of the program. This course will not only describe the engineering curriculum, but it will also contextualize the engineering profession with practical examples to help students determine if they want to pursue a career in the engineering profession.