Education

College of Education

EDUC 100. The Study of the Future: An Interdisciplinary Approach. 3 credits.
Introduces the students to an interdisciplinary study of the future within
the context of education. Various topic areas, such as population, science/
technology, lifestyle, economics, international relations, energy and religion
will explored in terms of future trends and how education responds to these
trends and their impacts.

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 non-school 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.
Leaders 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, NK-12. Preservice teachers will demonstrate
competencies developed in the English as a Second Language endorsement
program and in consultation with a field supervisor. Prerequisite: Completion
of ESL requirements.

EDUC 401. Problems in Education. 1-3 credits.
Workshop experiences for the development and training of teachers.
Prerequisites: 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.
This course will provide an overview of curriculum in grades K-12.
An understanding of objective, content, materials and trends associated
with curriculum will be addressed. Corequisites: READ 430, MIED 530 and EXED 410.

EDUC 480. Student Teaching. 3-12 credits.
Enables students to apply, in the public school classrooms and the
comprehensive child development programs, those skills and attitudes
acquired in all components of teacher education. Under the guidance
of university supervisors, students are provided activities designed to
familiarize them with the classroom teacher’s role. Prerequisites: GPSYC 180, EDUC 300 or EDUC 360, appropriate methods courses, and permission
of the coordinator of field experiences.

EDUC 482. Professional Development, Partnership and Advocacy. 3 credits.
Students will examine opportunities for professional development from
professional associations, universities and other organizations across PK-16.
Strategies to build partnerships with colleagues, families and communities
are presented. Important social and political issues affecting education of
majority and minority students and models of advocacy for students and
their families are presented.

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 topic 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: GPSYC 180 and admission to

ELED 310. Diversity in Elementary Education with Service Learning. 3 credits.
This course guides students in critically examining 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 educational
issues and practices in the classrooms that embrace the whole community
of learners and their families. Prerequisite: Admission to teacher education.
Corequisites: ECEO 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:
ECEO 372, ELED 308, ELED 310 and READ 366.

ELED 411. Practicum with a Focus on Curriculum Integration and
Guiding Behavior. 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: ELED 308, ECEO 372, ELED 310, ELED 311

ELED 432. 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: ELED 308, ECEO 372, ELED 310, ELED 311

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 implementation for effective, developmentally
appropriate mathematics instruction for grades PreK-6. Emphasis is 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: READ 430, ELED 411, ELED 432 and ELED 434.

ELED 434. Children and Social Studies. 3 credits.
This course focuses on the 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 366.

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.