

# SECONDARY EDUCATION (ESE)

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## **ESE 500 Research and Statistics in Secondary Education (3)**

Provides the foundation for the interpretation and conceptualization of research in secondary education. Instruction will focus on the variety of research methodologies and statistical analysis to strategies to develop and incorporate such strategies into action research projects for the 6-12 classrooms. Replaces EFD 500.

## **ESE 502 Curriculum Development in Secondary Schools (3)**

Advanced study of the theories, models, and practical application of curriculum development and revision in Secondary Schools.

## **ESE 505 Education Methods, Assessment, and Technology in Secondary Schools (3)**

Corequisite(s): ESE 510.

Provides an introduction to general teaching methodologies, formative and summative assessment strategies, and appropriate use of instructional technologies for effective planning and instruction in the secondary classroom.

## **ESE 510 Secondary Practicum One (3)**

Prerequisite(s): ED 501.

Corequisite(s): ESE 505.

Provides a 70-hour practicum experience in the respective secondary education teaching fields with focused assignments related to classroom experiences.

## **ESE 520 Teaching Mathematics (3)**

Prerequisite(s): ESE 505 and ESE 510.

Corequisite(s): ESE 534.

Materials and methods of teaching mathematics at the secondary level. Requires Teacher Education Program eligibility.

## **ESE 521 Teaching Social Studies (3)**

Prerequisite(s): ESE 505 and ESE 510.

Corequisite(s): ESE 534.

Materials and methods of teaching history and other social sciences at the secondary level. Requires Teacher Education Program eligibility.

## **ESE 522 Teaching Language Arts (3)**

Prerequisite(s): ESE 505 and ESE 510.

Corequisite(s): ESE 534.

Materials and methods of teaching the language arts at the secondary level. Requires Teacher Education Program eligibility.

## **ESE 523 Teaching General Science (3)**

Prerequisite(s): ESE 505 and ESE 510.

Corequisite(s): ESE 534.

Materials and methods of teaching the natural and physical sciences at the secondary level. Requires Teacher Education Program eligibility.

## **ESE 531 Philosophy of Adolescent Education (3)**

Advanced study of contemporary philosophies of education as they relate to the education of adolescents, the historical development of these philosophies as they have been applied at the secondary education level, and the impact these philosophical beliefs have on secondary education.

## **ESE 534 Secondary Practicum Two (3)**

Corequisite(s): Appropriate special methods course ESE 520-523.

Provides a 150 clock-hour, Level III clinical experience, supervised by secondary education faculty. This practicum allows student to observe the daily functions of teachers and students and teach a minimum of six full lessons in a local school setting. Requires Teacher Education Program eligibility.

## **ESE 540 Diversity and Multicultural Education in the United States (3)**

Prerequisite(s): Student must fulfill one of the following in order to take this course

Admission to the College of Education and Professional Studies or 2. Previous degree in an education related field or 3. Permission from instructor or department head. This course develops a broad understanding of the student diversity in secondary schools in the United States. Various approaches to multicultural education will be employed to equip Teacher Candidates with teacher to a diverse student population.

## **ESE 545 Quantitative Reasoning I (3)**

The course aims to advance students' mathematical knowledge in Algebra and Functions in the context of quantitative reasoning. Moreover, this course will advance students' critical thinking and problem-solving skills by engaging them in the mathematical modeling process which encompasses the practices standards for teaching mathematics. The course addresses topics for middle school and high school such as systems of linear equations, quadratic exponential, absolute value, linear piecewise functions, and sequences. This course does not satisfy coursework requirements towards a Master's Degree in Mathematics.

## **ESE 546 Quantitative Reasoning II (3)**

The course aims to advance students' mathematical knowledge in Statistics and Probability, and Geometry, in the context of quantitative reasoning. Moreover, this course will advance students' critical thinking and problem-solving skills by engaging them in the mathematical modeling process which encompasses the practices standards for teaching mathematics. The course addresses topics for middle school and high school such as reasoning with probability, conducting statistical study, and exploring Euclidian and non-Euclidian geometry (e.g., Spherical and Taxi-Cab Geometries). This course does not satisfy coursework requirements towards a Master's Degree in Mathematics.

## **ESE 561 Foundations of Secondary Education (3)**

Examines the basic of schools of thought concerning the foundations of public education with an emphasis on the psychological, sociological, and philosophical impact on the nature of learning and the learner. Students wishing to take this course must be unconditionally eligible for the Teacher Education Program.

## **ESE 567 Literacy Theory and Practice (3)**

Examines literacy theory and practice in the secondary schools. ESE 567 is cross-listed with RDG 567 and only one course may be counted for credit. Students wishing to take this course must be unconditionally eligible for the Teacher Education Program.

## **ESE 570 Critical Inquiry in Mathematics (3)**

Provides opportunities to gather, interpret, and evaluate materials related to the teaching of mathematics. Evidence of inquiry may include in-class essay examinations, prepared essays, presentations, projects, etc.

## **ESE 571 Critical Inquiry in History and Social Science (3)**

Provides opportunities to gather, interpret, and evaluate materials related to the teaching of history and social science. Evidence of inquiry may include in-class essay examinations, prepared essays, presentations, projects, etc.

**ESE 572 Critical Inquiry in English Language Arts (3)**

Provides opportunities to gather, interpret, and evaluate materials related to the teaching of language arts. Evidence of inquiry may include in-class essay examinations, prepared essays, presentations, projects, etc.

**ESE 573 Critical Inquiry in Biology and General Science (3)**

Provides opportunities to gather, interpret, and evaluate materials related to the teaching of biology and general science. Evidence of inquiry may include in-class essay examinations, prepared essays, presentations, projects, etc.

**ESE 590 Classroom Management Theory and Practice (3)**

Prerequisite(s): Student must fulfill one of the following in order to take this course

Admission to the College of Education and Professional Studies or 2. Previous degree in an education related field or 3. Permission from instructor or department head. This course provides an introduction to the major theories related to classroom management and appropriate application of these theories into the secondary school environment.