

# INSTRUCTIONAL DES & EDUC TECN (IDET)

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## **IDET 3100 Educational Technology for Preservice Teachers in Schools 1 Semester Credit Hour (1 Lecture Hour)**

This field-based integrated course is designed to provide educators with an overview of basic resource tools and instructional methods to be considered when designing and developing educational technology integrated curriculum plans. This field-based infused seminar will look at basic integrated applications in creating electronic portfolios for all students. Aspects of online collaborative tools and their pedagogical implications in EC-12 environments will also be incorporated.

**Co-requisite:** EDUC 4605.

## **IDET 3210 Design and Development of Technology-Integrated Learning Environments**

### **2 Semester Credit Hours**

This field-based integrated, hybrid course provides preservice educators an overview and experience with educational technology frameworks, state and international technology standards, methods, and current tools. Associated practitioner strategies for cultural competence, sociopolitical clarity, culturally sustaining practices, and learner-centered assessments will be explored and integrated. Students will create technology-integrated activity plans employing practitioner strategies designed for and implemented within shared power learning environments.

**Prerequisite:** EDUC 2211, 3211 and SPED 3310 and (READ 3352 or 3353).

**Co-requisite:** EDUC 4305.

## **IDET 3310 Technology Applications for Teachers**

### **3 Semester Credit Hours (3 Lecture Hours)**

This course enables preservice and inservice teachers to effectively use computer-based technology for instructional and professional purposes, and provides participants with the skills and knowledge required for teacher certification in Texas.

## **IDET 4300 STEM Technology**

### **3 Semester Credit Hours (3 Lecture Hours)**

This course provides the conceptual framework for exploring EC-6 technology integrated with computational thinking skills and engineering for deeper understanding, connections, and communication. Technology integration concepts and skills will be developed through flipped instruction, face to face, and collaborative group instruction. Maker Spaces and collaborative technology tools will support the problem-based learning approach. The major goal of this course is to prepare teachers who can educate students to become technologically literate with basic understandings in applicable computational thinking and engineering concepts.