

# EDUCATIONAL TECHNOLOGY (EDTC)

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## EDTC 3123 Applications of Educational Technologies

**Description:** Introduction to the design and development of instruction using educational media and technology. Materials development, contemporary applications of computers and other electronic systems to instruction. Integration of instructional design, instructional media, and instructional computing. May not be used for degree credit with EDTC 4113. Previously offered as CIED 3122.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Undergraduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 4113 Applications of Media and Technology

**Description:** Introduction to the application of media and technology to formal and informal learning situations. Intended for non-professional education majors. May not be used for degree credit with EDTC 3123. Previously offered as CIED 4113.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Undergraduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5000 Master's Report or Thesis

**Prerequisites:** Consent of instructor.

**Description:** Students studying for a master's degree enroll in this course for a total of 2 credit hours if they write a report or 6 hours if they write a thesis. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.

**Credit hours:** 1-6

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5053 Learning in a Digital Age

**Description:** Foundational understanding of digital learning including history, definitions, common assumptions, cultural competence, ethical issues, standards, methods, and models to maximize digital learners' experience in educational and corporate settings.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5103 Advanced Computing Applications in Education

**Description:** In-depth exploration of advanced technology use in teaching and learning environments. Examination of current issues of technology use in instructional settings. Previously offered as CIED 5103.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5113 Digital Media Production for Instruction

**Description:** Introduction to the production of digital media for instruction. Topics covered: Instructional design for digital media, message design, use of graphics, multimedia development tools. Current research, trends, tools and issues in media production will also be addressed. Previously offered as CIED 5113.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5153 Computer-Based Instruction Development

**Description:** Examinations of curriculum strategies, related research issues, and techniques for developing computer-based instruction. Students will develop and evaluate computer-based instruction with case studies. Previously offered as CIED 5153.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5203 Foundations of Educational Technologies

**Description:** A general introduction to the field of Educational Technology. Define, describe, and critically evaluate the foundations, issues and careers in educational technology.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5303 Digital Games and Simulations in the Classroom

**Description:** Introduces students to the philosophies, theories, processes, and practices of integrating digital games and simulations into the classroom.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5403 Creativity and Innovation in Educational Technology

**Description:** In-depth examination of a variety of innovation technologies and engagement in pedagogies and technologies associated with creativity, innovation and invention.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## EDTC 5503 Facilitating Online Learning

**Description:** Apply knowledge of pedagogy, standards for online teaching, online community building, and teaching with technology to design and facilitate online learning environments.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 5720 Educ Workshop**

**Description:** For teachers, principals, superintendents and supervisors who have definite problems in instruction or administration. Students must register for the full number of credit hours for which the workshop is scheduled for a particular term. Offered for variable credit, 1-8 credit hours, maximum of 8 credit hours.

**Credit hours:** 1-8

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 5753 Introduction to Instructional Design**

**Description:** Introduction to the systematic design of instruction. Topics covered: Analysis, design, development, implementation, and evaluation of instructional materials in a variety of educational settings. Current research, trends and issues in instructional design will be addressed.

Previously offered as CIED 5753.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 5773 Instructional Systems Management**

**Description:** Principles of management relevant to instructional systems, including, but not limited to: project, resource, quality, change, financial, information technology, human resource, program evaluation, product, knowledge and performance management. Previously offered as CIED 5773.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 5850 Directed Study**

**Prerequisites:** Consent of instructor.

**Description:** Directed study for master's level students. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.

**Credit hours:** 1-3

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6000 Doctoral Dissertation**

**Description:** Required of all candidates to the Doctor of Education degree. Credit is given upon completion of the thesis. Offered for variable credit, 1-15 credit hours, maximum of 15 credit hours.

**Credit hours:** 1-15

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6153 Advanced Computer-Based Instructional Development**

**Prerequisites:** EDTC 5153 or consent of instructor.

**Description:** Design of user-friendly instructional interfaces and computer-based learning management systems.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6283 Performance Improvement Technology**

**Description:** Overview of performance improvement, as defined within the field of Educational Technology. Training and non-training interventions to improve performance in learning situations. Sample topics may include needs assessment, motivation systems, compensation systems, job aids, or electronic performance support systems.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6333 Human Computer Interaction**

**Prerequisites:** EDTC 5153 or consent of instructor.

**Description:** Human cognitive architecture, information processing, and design of effective educational, computer-based interfaces.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6423 Trends and Issues in Educational Technology**

**Description:** Selected problems, issues and trends in educational technology.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6553 Media and Learning in Educational Technology**

**Description:** Exploration of topics from media studies relevant to educational technology, especially online learning. Reading of classic works in media studies in tandem with related contemporary works addressing new developments in educational technology, online learning, online gaming, and social media for learning.

**Credit hours:** 3

**Contact hours:** Lecture: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6850 Directed Reading**

**Prerequisites:** Consent of instructor.

**Description:** Directed reading for students with advanced graduate standing to enhance students' understanding in areas where they wish additional knowledge.

**Credit hours:** 1-6

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6880 Internship in Education**

**Prerequisites:** Consent of instructor.

**Description:** Directed off campus experiences designed to relate ideas and concepts to problems encountered in the management of the school program. Offered for variable credit, 1-8 credit hours, maximum of 8 credit hours.

**Credit hours:** 1-8

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

**EDTC 6910 Practicum**

**Prerequisites:** Consent of instructor.

**Description:** Helps the student carry out an acceptable research problem (practicum) in a local school situation. Credit given upon completion of the written report. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.

**Credit hours:** 1-6

**Contact hours:** Other: 1

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation