
Educational Technology

In the College of Education

OFFICE: North Education 280
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<http://edtec.sdsu.edu>

Accredited by the California Commission on Teacher Credentialing.

Faculty

Emeritus: Anthony, Harrison, McAllister, Rossett
Chair: Bober
Professors: Allen, Bober, Dodge, Ritchie, Saba
Associate Professors: Hoffman, Wang
Assistant Professors: Kopcha, Nguyen

Offered by the Department

Doctor of Education degree in education.
Master of Arts degree in education.
 Concentration in educational technology.
 Specialization in educational computing.
 Specialization in workforce education and lifelong learning.
Minor in educational technology.
Certificate in distance education
 (refer to the *Graduate Bulletin*).
Certificate in instructional design
 (refer to the *Graduate Bulletin*).
Certificate in instructional technology.

Educational Technology Minor

The minor in educational technology consists of a minimum of 15 units in educational technology to include Educational Technology 540, 541, and nine units selected from Educational Technology 544, 550, 561, 570, 572, 590, or 596 (when applicable).

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable or as prerequisites for the master's degree in educational technology. A minimum of six upper division units must be completed in residence at San Diego State University.

Instructional Technology Certificate

To receive a certificate in instructional technology, candidates must meet departmental admission requirements (which include relevant work experience or academic preparation), submit letters of recommendation, and complete 15 units of coursework to include Educational Technology 540, 541, 544, and six units selected from Educational Technology 550, 561, 570, 572, 590, or 596 (when applicable).

With the approval of the department, a student may apply no more than three units of coursework from the certificate program toward a minor.

Courses (EDTEC)

Refer to *Curricula and Courses and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

LOWER DIVISION COURSES

EDTEC 220. Learning, Technology, and Society (3)

Problem-solving at the intersection of three fundamentally human enterprises: learning, technology, and social institutions. Identifying needs, generating possible solutions in the following domains: elearning, edutainment, formal and informal learning. Projections and visions of future developments to enhance learning.

EDTEC 270A. Technologies for Teaching I (Blended) (1)

One and one-half hours of lecture and three hours of activity per week for five weeks.

Prerequisites: Admission to liberal studies program.

Application of technology to teaching. Meets part of computer literacy requirement for Level I teaching credential. Required for multiple subjects credential students who do not pass the entrance test for Educational Technology 470.

EDTEC 296. Experimental Topics (1-3)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES (Intended for Undergraduates)

EDTEC 470. Technologies for Teaching (1-3)

One unit: One-half hour of lecture and one hour of activity. Two units: One hour of lecture and two hours of activity. Three units: One and one-half hours of lecture and three hours of activity.

Application of computer and video technologies to practice of teaching. Meets computer literacy requirement for Level I teaching credential.

EDTEC 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

EDTEC 499. Special Study (1-3)

Prerequisites: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

NOTE: Distance education courses are offered through the College of Extended Studies.

EDTEC 532. Producing Digital Learning Media for Nonmajors (1-3)

Two hours of activity per unit.

Digital learning media production for professionals in health, law, science, business, publishing, and other settings. Use of web- and video-based technologies, presentation and data analysis tools for training and education. Not open to students in educational technology degree or certificate programs.

EDTEC 540. Educational Technology (3)

(Selected sections offered as distance education)

Six hours of activity.

Rationale, foundations, theories, careers, trends, and issues in educational technology. Implications of educational technology for instruction and information in schools, government, and corporations.

EDTEC 541. Web-Based Multimedia Development (3)

(Selected sections offered as distance education)

One lecture and six hours of laboratory.

Prerequisites: Basic computer literacy.

Systems, aesthetic, and learning theories applied to design of web-based educational multimedia. Planning and prototyping digital media. Not open to students with credit in Educational Technology 532.

EDTEC 544. Instructional Design (3)
(Selected sections offered as distance education)

One lecture and six hours of laboratory.
 Prerequisites: Educational Technology 540 and 541. Meet department Writing Skills Requirement.

Systematic design of products for education and training. Use of cognitive task analysis to determine instructional content. Development of instructional goals and product specifications. Rapid prototyping of instructional products.

EDTEC 550. Introduction to Distance Education (3)
(Selected sections offered as distance education)

Two lectures and three hours of laboratory.
 Prerequisites: Educational Technology 540, 541, 544, or equivalent experience in the field.

Terminology, concepts, instructional strategies, and technologies of distance education. Designing, facilitating, and managing courses at a distance. Overview of social issues, historical perspectives, and current trends. Analyzing distant learner profiles, needs, and skills. Telecommunicating, instructing, interacting, and providing feedback.

EDTEC 561. Advanced Web-Based Multimedia Development (3)
(Selected sections offered as distance education)

Six hours of activity.
 Prerequisites: Educational Technology 540 and 541.
 Two- and three-dimensional graphics, visualization, animation, digital video, sound, and virtual reality techniques. Research-based guidelines, design languages applied to development of interactive web-based learning systems.

EDTEC 570. Advanced Teaching with Technologies (3)
(Selected sections offered as distance education)

Prerequisites: Educational Technology 470 or equivalent work experience.

Design of constructivist lessons and units using Internet resources. Use of visual organizing tools and databases for instruction and assessment. Tools for professional knowledge base organization and electronic portfolios.

EDTEC 572. Technology for Course Delivery (3)
(Selected sections offered as distance education)

One lecture and six hours of laboratory.
 Prerequisites: Educational Technology 540 and 541.
 Use of technology to support planning, presenting and managing instructor-led courses.

EDTEC 590. Evaluation Techniques for the Performance Technologist (3)
(Selected sections offered as distance education)

Two lectures and three hours of activity.
 Prerequisites: Educational Technology 540 and 541. Recommended: Education 690.
 Evaluation techniques and tools for performance technologists.

EDTEC 596. Topics in Educational Technology (1-3)
(Selected sections offered as distance education)

Selected problems in educational technology. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

GRADUATE COURSES
Refer to the *Graduate Bulletin*.

EDTEC