EDTC 602 Educational Technology: Field, Theory and Profession
Credits 3. 3 Lecture Hours.
Introduction to the field of educational technology, including media, instructional design, theory and research; exploration of the history and future direction of the field; careers in educational technology through interaction with professionals currently working in the field.
Prerequisites: EDTC Major; approval of instructor.

EDTC 608 Online Course Design
Credits 3. 3 Lecture Hours.
Application of systematic instructional design principles to the development of online instruction within a learning management system; experience designing and facilitating both asynchronous and synchronous e-learning environments according to evidence-based practices.
Prerequisites: EDTC 645 or approval of instructor; approval of department head; graduate classification.

EDTC 613 Integrating Technology in Learning Environments
Credits 3. 2 Lecture Hours. 1 Lab Hour.
Develops a broad understanding of what is involved in designing technology rich environments to support active learning; examines the integration of human learning theories with instructional design and development practices in the selection, preparation, evaluation, and ethics of instructional technology implementation.

EDTC 621 Graphic Communication and Interface Design
Credits 3. 3 Lecture Hours.
Effective communication using visual channel humans use to process information; application of research findings and design principles to the effective design of graphical displays to communicate functionality and structure; critical analysis of the interfaces of everyday objects and e-learning resources; includes flawed interfaces, elegant design solutions, user-centered design and usability.
Prerequisites: Graduate classification; approval of department head.

EDTC 631 Educational Video
Credits 3. 3 Lecture Hours.
Design and development of educational videos using choice of video edition program; experience the entire process of developing educational videos, from concept to finished project; emphasis on instructional message design, treatment, and storyboarding.
Prerequisites: Graduate classification; approval of instructor.

EDTC 642 Designing for Mobile Learning
Credits 3. 3 Lecture Hours.
Introduction to basics of designing educational applications for mobile devices; emphasis on instructional, visual and human-computer interaction design principles; hands-on design and development work combined with a theoretical approach to designing learning experiences; previous programming experiences not required.
Prerequisites: Graduate classification; approval of department head.

EDTC 645 Emerging Technologies for Learning I
Credits 3. 3 Lecture Hours.
Evaluation of emerging trends and technologies and their impact on learning and performance; emphasis on technologies currently being adopted in organizations and driving changes in education; hands-on activities examining multiple technologies and identifying best practices.
Prerequisites: Graduate classification; approval of department head.

EDTC 646 Emerging Technologies for Learning II
Credits 3. 3 Lecture Hours.
Critical examinations of trends and technologies expected to have an impact on learning and performance over the next five years; educational futurist predictions; key factors to consider in adoption/integration decisions; theoretical and technological underpinnings; hands-on activities field of interest.
Prerequisites: Graduate classification; approval of department head.

EDTC 651 E-Learning Design and Development
Credits 3. 3 Lecture Hours.
Design and development of stand-alone instructional programs for independent learning; consideration of research-based principles for the design of these programs, including guidelines for design decisions related to rich media, navigation, learner/program control, practice, interactivity and feedback; application of these principles to design and develop a program on a topic of choice; use of Adobe Captivate and image editing software.
Prerequisite: Approval of instructor.

EDTC 654 Instructional Design: Techniques in Educational Technology
Credits 3. 3 Lecture Hours.
Introduces systems approach to instructional design with focus on the functions of systems models in planning, developing and evaluating instruction; use of instructional development models which systematically assure proper instructional design; participants will develop instructional products individually and in groups; a strong theoretical foundation utilized.
Prerequisite: Approval of instructor and department head.

EDTC 655 Instructional Design II
Credits 3. 3 Lecture Hours.
Preparation for leadership in instructional design through exploration of project management, needs assessment, goal analyses, rapid prototyping, problem-based learning, case-based learning, design of learning objects, ID for international audiences, instructional materials and program evaluation; theories that contribute to the field.
Prerequisites: Graduate classification; approval of department head; EDTC 654.
EDTC 656 Computer Graphics: Educational Applications and Production Techniques
Credits 3. 2 Lecture Hours. 2 Lab Hours.
Computer graphics production used in the development of educational materials; acquired skills and knowledges applied to the student’s interest area with respect to theoretical and research issues relating to the effective instructional use of print and computer-based instructional materials; techniques include digitizing, image-processing and animation.
Prerequisites: EDTC 645 or approval of instructor; approval of department head.

EDTC 660 Interactive Video/Multimedia: Production and Utilization
Credits 3. 3 Lecture Hours.
Principles and techniques of interactive video/multimedia design and production; practical applications of media (video, digitized video and audio) production techniques and instructional control programs utilizing authoring software; produce materials for interactive instructional programs involving features such as CD-ROM video and audio, simulations, interactive digital movies, web-based delivery, etc.
Prerequisites: EDTC 645 or approval of instructor; approval of department head.

EDTC 662 Computer Utilization in Educational Research and Practice
Credits 3. 3 Lecture Hours.
Use of computers for application in educational and research settings; activities include student/subject monitoring, hardware use and design, automatic data collection; data storage, retrieval, transmission and analysis; web-based research formats are included; projects will relate to major area of study.
Prerequisites: EDTC 645 or approval of instructor; approval of department head.

EDTC 664 Management of Instructional Telecommunication Systems
Credits 3. 2 Lecture Hours. 2 Lab Hours.
Management of Instructional Telecommunication Systems. Analysis of instructional telecommunications needs associated with educational and training programs; analysis, design, development, implementation and evaluation of computer-based management systems.
Prerequisites: EDTC 645 or approval of instructor; approval of department head.

EDTC 668 Applications of Telecommunications in Education
Credits 3. 2 Lecture Hours. 2 Lab Hours.
Instructional applications of telecommunications; analysis of characteristics of varied systems, both dedicated and public networks, and design of appropriate strategies and methods using those systems.
Prerequisites: EDTC 645 or approval of instructor; approval of department head.

EDTC 685 Directed Studies
Credits 1 to 4. 1 to 4 Other Hours.
Directed individual study of selected problems in instructional technology not within thesis research and not covered by any other course.
Prerequisite: Approval of instructor and department head.

EDTC 689 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours.
Selected topics in an identified area of educational technology. May be repeated for credit.
Prerequisite: Approval of instructor.

EDTC 691 Research
Credits 1 to 23. 1 to 23 Other Hours.
Research for thesis or dissertation.
Prerequisite: Approval of major advisor and department head.