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Educational Technology (EDTC)

Montclair State University

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Educational Technology

learn how SNA offers a unique perspective on individual- and group-level phenomena and the methodological decisions that must be considered when employing its measures and methods. Students will calculate and interpret network-based measures using general SNA software applications and example data.

EDFD830	Title	Dissertation Proposal Seminar.
	Prerequisites	Matriculation in Ed.D.in Pedagogy; admission to candidacy.
	Number and type of credits	3 hours seminar.
	Course Description	Students will work with their dissertation advisors to develop and refine their dissertation proposals. The seminar is a supplement to the formal dissertation proposal approval process which is outlined in the handbook. Successful completion of this course does not imply approval of the dissertation proposal. This course will be offered as pass/fail only. Cross listed with Educational Foundations EDFD 830 and Mathematical Sciences MATH 830.
EDFD900	Title	Dissertation Advisement.
	Prerequisites	Matriculation in Ed.D.in Pedagogy; Advancement to Candidacy.
	Course Description	While enrolled in Dissertation Advisement, students will work with their dissertation advisor and dissertation committee. Credits are reported as IP (In Progress) while the dissertation is being written. At the successful conclusion of the dissertation defense, a final grade of pass will be recorded.
EDTC500	Title	Introduction to Educational Technology.
	Number and type of credits	3 hours lecture.
	Course Description	This course is an introduction to the philosophical, pedagogical, and practical dimensions of educational technology. Students explore major tenets and trends in the fields of educational technology, instructional technology, and media literacy. Students develop a cognitive framework for understanding the new literacies associated with digital media and examine learning theories, including behaviorism, cognitivism, and constructivism. The emphasis is bridging theory with practice and critically examining the possibilities and challenges associated with accessing and implementing communications technology within educational settings. On a practical level, the course introduces students to the vast network of multiple media forms and

EDTC501	Title	systems that define educational technology. Curriculum and Technology Development: Global Perspectives.
EDTC501	Prerequisites Number and type of credits Course Description	EDTC 500. 3 hours lecture. This course provides a global view of education, technology, and pedagogy worldwide. Through collaboration with educators worldwide, students compare epistemologies in the United States with those of other countries. Students examine the potential roles, regulations, and renewal of the technologies of education within the social and political democracy of the United States.
EDTC502	Title Number and type of credits Course Description	Assessment and Evaluation of Learning with Technology. 3 hours lecture. This course explores quantitative and qualitative approaches to researching the impact of technology within educational and instructional settings. Students learn theory and practice of design, development, utilization, management and formative and summative evaluation of processes and resources for learning. Students select an area of inquiry, define a research problem, and collect and interpret preliminary data. This course provides a scaffold for the Capstone Project.
EDTC510	Title Prerequisites Number and type of credits Course Description	Technology Planning for Education Renewal. EDTC 500, EDTC 501, and EDTC 502 or graduate program coordinator's approval. 3 hours lecture. Students assist district or organizational leaders in the systemic design and implementation of a technology plan that is customized for a school or organization's philosophy, budget, and individual staff needs and abilities. Comprehensive planning considers goals, standards, resources, community structures, school or organization-based support, and staff development. Students conduct a needs assessment, facilitate planning meetings among leaders, educators, staff, parents and community representatives and address practical issues of purchasing and technical support.
EDTC530	Title Prerequisites Number and type of credits	Integrating Technology Across the Secondary Curriculum. EDTC 500 and EDTC 501 or graduate program coordinator's approval. 3 hours lab.

	Course Description	This laboratory course provides students with hands-on experiences in creating educational and instructional technology environments that are student-centered, collaborative, inquiry-based, and emphasize critical thinking. The course explores the fundamentals of interactive design using both MacIntosh and PC-based computer platforms. Students orchestrate object, print, video and digital media technologies to support specific curricular goals at the middle- and high-school levels.
EDTC550	Title	Innovations in Educational Technology Design.
	Prerequisites	EDTC 500, EDTC 501, and EDTC 502 or graduate program coordinator's approval.
	Number and type of credits	3 hours lecture.
	Course Description	This course offers an integrated approach to the design of educational technology environments with an emphasis on the uses of adaptive and assistive technologies. Students engage in an inquiry-based approach to educational design within schools, corporations, public agencies or community-based settings. The course holistically defines technology to include object, print, audio, video, and digital media formats and emphasizes a needs-based design of educational technology to foster diversity and social justice.
EDTC561	Title	Production Seminar I: Portfolio Development.
	Number and type of credits	3 hours lab.
	Course Description	This course introduces students to various types of portfolios including presentational, teaching and reflective. Students engage in strategic planning, design, development and assessment of a digital portfolio that incorporates multiple media forms and artifacts.
EDTC563	Title	Production Seminar I: Multimedia Authoring.
	Number and type of credits	3 hours lab.
EDTC563	Course Description	This course introduces students to the design and production of non-linear multimedia projects using text, images, sound, graphics, and animation. Students experiment with various digital authoring tools, explore elements of instructional design, and develop appropriate assessment strategies for educational media environments.
EDTC565	Title	Production Seminar I: Digital Video Editing.
	Number and type of credits	3 hours lab.

	Course Description	This course emphasizes advanced design, production and integration of video programs in the context of non-linear hypermedia. Students gain hands-on experience in special effects, animation and graphic design using Photoshop and FinalCut Pro software.
EDTC591	Title	Production Seminar II: Developing Databases for Educational Settings.
	Prerequisites	Evidence of advanced computer proficiency.
	Number and type of credits	3 hours lab.
	Course Description	This laboratory course introduces students to the tools available to assist in building databases and database applications for educational settings. Students engage in a systematic approach to identifying the necessary steps in creating a database and managing data with an emphasis on user needs.
EDTC593	Title	Production Seminar II: Web-based Instruction.
	Prerequisites	Evidence of advanced computer proficiency.
	Number and type of credits	3 hours lab.
	Course Description	This laboratory course leads students through the systematic use of web technology to design and manage learning and training experiences. Students gain hands-on experience in developing synchronous and asynchronous classrooms with an emphasis on the needs of the non-traditional learner. Technologies include HTML and course management systems such as WebCT and Blackboard.
EDTC595	Title	Production Seminar II: Television Production.
	Number and type of credits	3 hours lab.
	Course Description	This laboratory course involves hands-on exploration of television programming, including elements of conceptual creativity, pre-planning, set design, floor direction, control room operations and basic television directing. Students work in the Dumont TV Center and on location.
EDTC597	Title	Production Seminar II: Virtual Communities of Learning.
	Prerequisites	Evidence of advanced computer proficiency.
	Number and type of credits	3 hours lab.
	Course Description	This hybrid lecture/laboratory course provides students with direct experience with videoconferencing technologies to explore the globalization of e-learning as it relates to education, commerce, politics, and culture. Students explore the global impact of networked communication technologies and develop educational, technical and business strategies for the design of learning environments.

EDTC600	Title Prerequisites Course Description	Supervised Field Experience in Educational Technology. Graduate program coordinator's approval. The supervised field experience is designed to provide the master's candidate with professional field experience in his/her chosen area of emphasis. This semester-long experience bridges theory and practice through the application of best practices under the supervision of professionals in real settings. The student works under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the university supervisor. 100 hours per semester.
EDTC670	Title Prerequisites Number and type of credits Course Description	Capstone Project in Educational Technology. Graduate committee approval of proposal. 3 hours other. The capstone project is designed to provide the master's candidate with both professional and scholarly experience in his/her chosen area of emphasis.
EDTC670	Course Description	Candidates for the master's degree work with a supervising faculty member to design, develop, and implement an educational technology project in the scholarship area of discovery, application, or pedagogy--depending upon the student's professional interests and goals. Pass/fail only.
ELAD509	Title Prerequisites Number and type of credits Course Description	Administration of Education and Training Programs. Graduate students in Educational Leadership w/conc: Educ/Trainer (ELET) or Educational Leadership w/conc: Adult and OrgLrning (ELAO). 3 hours lecture. This course prepares the present or prospective administrator to manage an education or training program in a nonschool setting. Administrative theory, organizational functions, personnel and staff requirements as well as program design and development will be examined and studied. The course is designed for the educational administrator in both public and nonpublic agencies as well as in profit-making or nonprofit organizations.
ELAD510	Title Prerequisites Number and type of credits	Effective Leadership in a Diverse Society. Graduate students in Educational Leadership (ELAD) or Principal (PRIN) or departmental approval. 3 hours lecture.