



Course Descriptions for Educational Technology Specialist Certification

EDU 5300 (formerly 508) FOUNDATIONS OF EDUCATIONAL TECHNOLOGY

This course offers teacher candidates an opportunity to examine the integration of instructional technology, and its influences that impact upon regular and special education, including assistive and educational technology for improving student performance according to Common Core standards. A broad contextual view will be the basis for exploration into past, current and possible future educational processes, practices and issues through primary source literature and digital artifacts. This exploration leads to the candidate's final project: a rigorous, web based, well documented personal philosophy of educational technology incorporating a variety of digital media artifacts. In this course, candidates will initiate their web based professional portfolio for the program. Candidates are expected to make additions and revisions to this philosophy each succeeding semester. 3 credits

EDU 5301 (formerly 517) - ANALYZING DIGITAL MEDIA IN TEACHING AND LEARNING

This course offers teachers and teacher candidates an opportunity to analyze how media, texting, chat, status updates, and hypertext change the way we read and interpret texts, both in and out of the classroom. Teacher candidates will study various theories of literacy and how it changes with the introduction of digital technologies. The effective integration of technology to increase student achievement and how teachers and teacher candidates apply pedagogical theories to integrate technology will be emphasized. 3 credits

EDU 5230 (formerly 527) INSTRUCTIONAL APPLICATIONS OF THE INTERNET – INTEGRATING DIGITAL AGE TOOLS INTO INSTRUCTION, CLASSROOM MANAGEMENT, COMMUNICATION, AND COLLABORATION

The goal of this course is to provide teacher candidates with the opportunity to recognize and experience the benefits of technology as an integrated part of the educational process for all students, including those with special needs. The potential of technology as a tool to support instructional programs, to provide the means for collaboration, and to enable personal and professional growth will be emphasized. 3 credits

EDU 5302 (formerly 519) INTERDISCIPLINARY CURRICULUM AND METHODS IN EDUCATIONAL TECHNOLOGY

This course will highlight basic lesson planning; effective teaching; oral communication skills; writing and learning; school-to-work; classroom technology; learning standards. Objectives, content, instructional materials, activities, and theoretical principles for interdisciplinary teaching of English language arts, mathematics, science, and social studies incorporating technology use and the accompanying standards will also be emphasized in the pre-K to twelfth grade classroom environments. Application of technology skills to the content and digital instructional materials will be used to teach Common Core and ISTE NETS Standards' based interdisciplinary curriculum in the areas of English language arts, mathematics, science, and social studies. 3 credits

EDU 5303 (formerly 529) - ASSESSMENT TOOLS IN EDUCATIONAL TECHNOLOGY

The goals of this course are to provide participants with the skills necessary to evaluate existing curriculum and revise it when applicable, and to design and develop innovative curriculum utilizing instructional and digital age technologies that will challenge students to pursue in-depth understanding of subject content. Interdisciplinary approaches to curriculum design, incorporation of effective questioning techniques, strategies which foster critical thinking skills in students and the use of authentic forms of assessment will be important topics in this course. 3 credits

EDU 5304 (formerly 534) EDUCATIONAL WEBSITE DESIGN AND VIDEO INTEGRATION, DISTANCE LEARNING, BLENDED AND VIRTUAL SCHOOLS

This course offers teachers and teacher candidates an opportunity to evaluate aspects of the Internet for website design, video integration, and distance learning to promote educational technology in their classroom, and prepare for the 21st century learner. This course provides an in-depth look at the Internet as a source of learning and learning environments such as blended learning and virtual schools to promote successful teaching and the integration of technology in the classroom. Students will engage in exploratory projects and present findings to the class in digital and web-based formats. Emphasis is given to applying the knowledge and skills necessary to create a Web-based, student-centered lesson/unit that provides diverse learners with opportunities for formal and informal learning. 3 credits

EDU 5305 (formerly 535) MOBILE LEARNING AND TEACHING WITH SOCIAL MEDIA FOR EDUCATIONAL TECHNOLOGY COURSES

This course will examine mobile applications developed by Apple and Android for the purpose of integrating instructional technology into K-12 classrooms. Teachers and teacher candidates will evaluate mobile applications on smartphones and tablets to promote effective educational technology teaching. This course considers how mobile computing has changed the educational landscape and how information is readily available and in new and different formats. Because mobile computing is ubiquitous, social media is part of K-12 students every day activities. This course will also look at social media websites for their implications in education. The course will provide teachers and teacher candidates a view of how learning strategies can incorporate different types of social media, including a focus on how their use in K-12 classrooms can build community, develop literacy, and foster critical thinking for the 21st century learner. The course will provide opportunities for teachers and teacher candidates to create learning environments and activities utilizing mobile applications and social media. 3 credits

EDU 5306 ASSISTIVE AND ADAPTIVE TECHNOLOGY FOR STUDENTS WITH SPECIAL NEEDS This course will enable teacher candidates to utilize effective teaching methodology and create learning environments to promote success for students with disabilities through the use of adaptive and assistive technologies. 3 credits

EDU 5307 ADAPTING TECHNOLOGY FOR ELL AND CULTURALLY DIVERSE STUDENTS IN INCLUSIVE CLASSROOMS

This course will enable teacher candidates to utilize effective teaching methodology and create learning environments to promote academic, social and emotional growth for English language learners and culturally diverse students. 3 credits

EDU 5308 BEST PRACTICES IN EDUCATIONAL TECHNOLOGY LEADERSHIP

The Educational Technology leader will utilize best practices to enhance teaching, learning, administration, and management within educational organizations at various levels. 3 credits