

MSEd Information Technology

Professional Core

ED 633 Research and Writing
 ED 632 Cultural, Social, and Phil. Issues in Ed **OR**
 CSE 632 Social and Phil. Issues in Ed Tech
 ED 611 Theories of Teaching and Learning

Information Technology Core

ED 626 Instructional Design
 LIB 680 Communication Theory
 LIB 686 Emerging Information Technologies

Content Electives (21 hours of CSE courses or advisor-approved electives)

3-credit courses

CSE 603 Professional Project
 CSE 604 Portfolio
 CSE 606 Special Indep Studies
 CSE 507 Seminar
 CSE 508 Workshop
 CSE 610 Computers in Education
 CSE 611 Information Literacy
 CSE 612 Media Literacy
 CSE 615 Designing Information
 CSE 616 Designing and Teaching Online Courses
 CSE 617 Open Source Tools
 CSE 619 Big Thinkers in Educational Technology
 CSE 620 Computers as Management Tool
 CSE 623 Ed Tech for ESOL/Bilingual
 CSE 624 Internet for Educators
 CSE 625 Creating an Internet Website
 CSE 626 Advanced website design
 CSE 627 Web 2.0 Tools for Teaching & Learning
 CSE 628 Geospatial Technologies for Teaching/Learning
 CSE 629 Web-based Website Design
 CSE 655 Internship in InfoTech
 CSE 660 Video Production 1

1-credit skills courses (*maximum 6 hours*)

CSE 666 Photoshop for Educators
 CSE 667 Making Video Accessible
 CSE 669 Screencast Basics & Best Practices
 CSE 670 Teaching content with technology: Secondary
 CSE 671 Teaching content with technology: Elementary
 CSE 681 Writing grants for technology
 CSE 682 Facilitating conversations: Teachers, Admin, Tech Supp.
 CSE 683 Managing Technology in the classroom
 CSE 684 Creating Web-based Tutorials
 CSE 685 Assessment tools
 CSE 686 Open-source tools for teaching and learning
 CSE 687 Mobile Technologies in Education
 CSE 689 Electronic Portfolios
 CSE 690 Digital photography/Photo editing
 CSE 691 Digital storytelling
 CSE 692 Learning objects
 CSE 693 Making music with digital tools
 CSE 694 Blogs in Education
 CSE 695 Collaboration Tools
 CSE 696 Podcasts and Vodcasts
 CSE 697 Creating a Personal Learning Environment
 CSE 698 Special Topics in Educational Technology

6 hours of additional advisor-approved electives plus comprehensive exams
OR 6-9 hours of CSE 603 thesis, professional project **OR** 3 hours CSE 604 + CSE 619 Portfolio

Total: 45 credits

MSED Information Technology Course Information

Glossary of course prefixes:

CSE: Computer Science Education **LIB:** Library **ED:** Education

Course descriptions: (Education core and Information Tech core classes only. Contact advisor for more information.)

ED 611 Theories of Teaching and Learning (3) - Course applies key concepts, models and strategies related to different theories of learning including behaviorist, cognitive and socio-cultural perspectives. Examine epistemological frameworks, issues of transfer, social and cultural influences, as well as motivation and engagement to design powerful learning experiences.

ED 626 Instructional Design (3) - The application of the instructional design approach to preparation of multimedia instructional products. Be guided through development of instructional materials, including application of the ID approach to the preparation of computer-assisted instruction.

ED 632 Cultural, Social and Philosophical Issues in Education (3) - Examine issues of learning and culture from a variety of philosophical perspectives, linking practice to theory and ideology. Students will frame their teaching and learning experiences by examining the role of culture in schooling and learning, specifically addressing issues surrounding diversity and critical perspectives in education.

CSE 632 Social and Cultural Issues in Educational Technology (3) - Course examines educational technology's use and impact from cultural and philosophical perspectives.

ED 633 Research and Writing (3) - Examine the traditions and theories of both quantitative and qualitative research and evaluate methods, findings, and implications of research studies. Produce and critique scholarly writing.

LIB 680 Communication Theory (3) - Examine theoretical models of communication and their application to various technologies of communication (e.g., print, video, motion picture film, etc.) to enhance training and instruction.

LIB 686 Emerging Information Technology (3) - Study current and emerging information systems from a philosophical and practical perspective. Explore the origins, storage, transmission and retrieval of information, as well as the technologies that assist these activities

NOTE: *The courses below will be offered to meet the requirements for content area electives.*

3-credit content area electives

CSE 603 Professional Project
CSE 604 Portfolio
CSE 606 Special Independent Studies
CSE 507 Seminar
CSE 508 Workshop
CSE 610 Computers in Education
CSE 611 Information Literacy
CSE 612 Media Literacy
CSE 615 Designing Information
CSE 616 Designing and Teaching Online Courses
CSE 617 Open Source Tools
CSE 619 Big Thinkers in Educational Technology
CSE 620 Computers as a Management Tool
CSE 623 Teaching ELL's Through Technology
CSE 624 Internet for Educators
CSE 625 Creating an Internet Website
CSE 626 Advanced website design
CSE 627 Web 2.0 Tools for Teaching & Learning
CSE 628 Geospatial Tech for Teaching and Learning
CSE 629 Web-based Website Design
CSE 655 Internship in InfoTech
CSE 660 Video Production I

1-credit skills courses

CSE 666 Photoshop for Educators
CSE 667 Making Video Accessible
CSE 669 Screencast Basics & Best Practices
CSE 670 Teaching Content with Tech: Secondary
CSE 671 Teaching Content with Tech: Elementary
CSE 681 Writing Grants for Technology
CSE 682 Facil Conversations: Teachers, Admin, Tech
CSE 683 Managing Technology in the Classroom
CSE 684 Creating Web-Based Tutorials
CSE 685 Assessment Tools
CSE 686 Open-source tools for teaching and learning
CSE 687 Mobile Technologies in Education
CSE 689 Electronic Portfolios
CSE 690 Digital Photography/Photo Editing
CSE 691 Digital Storytelling
CSE 692 Learning Objects
CSE 693 Making Music with Digital Tools
CSE 694 Blogs in Education
CSE 695 Collaborating with Wikis
CSE 696 Podcasts and Vodcasts
CSE 697 Creating a Personal Learning Environment
CSE 698 Special Topics in Educational Technology