Program Plan

EDUCATIONAL TECHNOLOGY CERTIFICATE PROGRAM (ETC)

The Educational Technology Certificate Program requires the following course work.

Course No.	Course	Credits		Date Taken
EDT5001	Enhancing the Curriculum with Technology	3	**Required Core Course** *3 credits needed*	
	Total Required Credits	**3**		
	Elective Courses *(choose twelve credits from the following)*			
EDT5002	Emerging Technologies	3	Elective Courses *12 credits needed*	
EDT5003	Multimedia Technologies	3		
EDT5004	Coordinating Technology in Education	3		
EDT5005/9501	Teaching Online	3		
EDT5006/9502	Designing and Constructing Online Courses	3		
EDT5007	Google Technologies in Education	3		
EDT5008	Leading Technology Professional Development	3		
EDT5009	Issues in Educational Technology	3		
EDT5010	Technology and Universal Design for Learning	3		
EDT5011	Enhancing Ministry with Technology	3		
EDT5012	School Technology Infrastructure	3		
EDT8006	Assistive and Remedial Technologies	1		
EDT8011	Dynamic Classroom Presentations	1		
EDT8012	Webpage Design and Construction	1		
EDT8013	Designing and Constructing Church/School Websites	1		
EDT8015	Technology Project	1		
EDT8017	Using Google Tools to Communicate, Create, and Collaborate	1		
EDT8101	Technologies for Preschool – 2nd Grade	1		
EDT8102	Tablet Apptivities for Preschool – 2nd Grade	1		
EDT8501	Multimedia Apps for the Classroom	1		
EDT8601	G Suite for Education Administration	1		
	Total Program Credits Needed	**15**		

Program Courses

The Martin Luther College (MLC) Educational Technology Certificate Program (ETC Program) is designed for teachers seeking to develop skills and strategies for integrating technology into a variety of PreK-College curricular settings.

*EDT5001 Enhancing the Curriculum with Technology 3 credits The integration of technology with curriculum content and instruction.

*EDT5002 Emerging Technologies in Education 3 credits An investigation of recent trends in hardware, software, policy, and pedagogy to develop a clearer picture of the possibilities for emerging technologies in the K-12 classroom.

*EDT5003 Multimedia Technologies 3 credits Instructional uses of stand-alone and internet-based multimedia technologies including experiences with multimedia tools to produce multimedia components, audio and video, for classroom use.

*EDT5004 Coordinating Technology in Education 3 credits An investigation of common duties and responsibilities of a technology coordinator in an educational setting. Topics include school technology plans, curriculum plans, learning spaces and environments,

ethics, digital equity, technology policies, management of resources, and technology training for faculty/staff. Basic infrastructure, such as hardware, software, operating systems, networking, equipment care, security issues, etc., are included.

*EDT5005/9501 Teaching Online 3 credits Issues related to online learning, resources, ethics, copyright issues, learning styles, management of online courses, role of the online student and instructor, online communication, learner assessment, and course evaluation. (If taken as EDT5005, which requires more work, the course can qualify for inclusion in the MLC Master's degree in Education program.)

*EDT5006/9502 Designing and Constructing Online Courses 3 credits The design and construction of online, web-based components, modules, workshops, or courses. Topics include learning theory and instructional design, web-based design principles, preliminary course planning, creating a course framework, preparing online lessons and content, constructing course materials, and preparing for course delivery. (If taken as EDT5006, which requires more work, the course can qualify for inclusion in the MLC Master's Degree in Education program.) Prerequisite: 5005/9501: Teaching Online

*EDT5007 Google Technologies in Education 3 credits An in-depth study and application of G Suite for Education Administration (formerly Google Apps for Education) with emphasis on K-12 educational application.

*EDT5008 Leading Technology Professional Development 3 credits An investigation of adult learning theory and research-based practices in professional development with respect to teaching teachers to use technology. These principles are applied in a faculty development plan.

*EDT5009 Issues in Educational Technology 3 credits A deeper dive into legal topics related to technology in education, including copyright, digital citizenship, licensing, data sharing and protection, children and technology, etc. Addresses the unique challenges of using technology in education and the data collected by companies and schools related to students, faculty, and staff. (e.g. FERPA, COPPA, CIPA)

*EDT5010 Technology and Universal Design for Learning 3 credits Using technology through the Universal Design for Learning (UDL) framework to successfully engage diverse learners in the general education classroom. Participants analyze the learner, the content, and the instructional process for ensuring that all students have equal access to the school's curriculum.

*EDT5011 Enhancing Ministry with Technology 3 credits An exploration of how technology can be harnessed to improve, enhance, and extend ministries, including information systems/databases, communication tools, productivity/project management tools, and many other aspects of ministry.

*EDT5012 School Technology Infrastructure 3 credits A thorough investigation of networks, the backbone of technology installations in ministry settings. Examines current network offerings for various sizes of institutions and how to approach various network design decisions and troubleshooting opportunities. Also explores planning for future network upgrades, working with vendors, and talking through other infrastructure needs.

EDT8006 Assistive and Remedial Technologies 1 credit An examination of the educational issues that arise when students with varying cognitive and physical abilities exist within the classroom. Participants examine how various digital tools, including hardware and software, can be used to help students of varying abilities better succeed in the classroom. Tools include line scanners, voice recognition software, computer assisted instruction, etc.

EDT8011 Dynamic Classroom Presentations 1 credit Using PowerPoint and other presentation software in a more sophisticated and dynamic way. Includes how to embed multimedia files and add transitions, images, and animations, all to help the non-designer build beautiful slides using sound design principles. The most powerful and compelling principles behind communicating with digital media are discussed.

EDT8012 Webpage Design and Construction 1 credit This course covers webpage design principles, introduction to HTML basics, and using online webpage editing tools (WYSIWYG editor) to create pages and embed widgets from other websites. Students will create content using WordPress, Google Sites, or FinalWeb content management systems.

EDT8013 Designing and Constructing Church/School Websites 1 credit Examinations and evaluations of existing church/school websites. Constructing and/or editing a church/school website. The WELS site "FinalWeb" is examined as a possible solution for webhosting. Prerequisite: EDT8012 Webpage Design and Construction

EDT8015 Technology Project 1 credit A culminating research report or project that directly helps the students and/or their church/school in a very practical manner. Within instructor-led guidelines, students review literature and then design and complete a technology related project. Prerequisite: EDT5001 Enhancing the Curriculum with Technology and at least 10 credits completed in the program

EDT8017 Using Google Tools to Communicate, Create, and Collaborate 1 credit An exploration of tools in G Suite in Education (formerly Google Apps for Education). Participants will learn the in-depth functionality of Google Drive (including Docs, Forms, Sheets, Slides, Sites, and Drawings), as well as other Chromebook tools, and will developed a project incorporating these tools.

EDT8101 Technologies for Preschool – 2nd Grade 1 credit A hands-on experiential class using various websites and hardware that are tailored for early childhood and primary grade teachers and learners.

EDT8102 Tablet Apptivities for Preschool - 2nd Grade 1 credit Age-appropriate ways to harness the power of tablet computers for young children's learning. Participants will learn about best practice, practical tips, and device administration.
(Access to an iPad or Google Android tablet v.4.0 or higher with the Google Play app store is necessary.)

EDT8501 Multimedia Apps for the Classroom 1 credit An investigation of educational multimedia apps. Participants explore and work with various apps that they or their students can use directly in the classroom to enhance teaching and learning.
EDT8601 G Suite for Education Administration 1 credit Setting up and maintaining the G Suite for Education (GAFE) administration console.

*** Indicates courses that can transfer directly into the MLC Masters in Education Degree program**.