EME 2040 Introduction to Educational Technology

Course Description
This course is a theory and application course that introduces students to instructional design principles, traditional and emerging technologies, and software and how they are used in the teaching profession. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies.

General Course Outcomes
At the end of this course, students will be able to:
1. Explain the role of technology in the classroom
2. Explain how to utilize the World Wide Web and its resources
3. Identify, evaluate, and utilize technology resources pertinent to the field of education
4. Identify, evaluate, and utilize Web 2.0/3.0 tools and educational apps appropriate for different content areas
5. Identify and use various types of multimedia applications to enhance classroom instruction
6. Describe, evaluate, and use traditional and cutting-edge technologies
7. Describe universal design principles and identify technology tools for exceptional learners and English Language Learners (ELLs)
8. Identify and explain the legal, ethical, and social issues that surround the use of technology in education

Textbooks and/or OER Resources (if used):

Transforming Learning with New Technologies, 3rd edition

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29.99 EBook
79.99 Print Book.

About TIC TOC and Carnegie Units

For the purposes of Carnegie Units, while you are teaching online, it helps to think about course work as if you were teaching face to face. In a traditional Carnegie Unit, 1 Credit = 45 hours of work. Of that 45 hours, for each hour of class time, there is two hours of homework. For a 3 credit course, Carnegie hours total 135 hours. On campus, if you teach MWF, for 50 minutes a class period, that rounds to 3 hours of class time. In addition to the 3 hours, there would be 6 more hours of homework. For a 15 week semester, at 9 hours per week, that gets you to 135 hours total. Online, to figure out how many hours per week you need to ask students to work, divide 135 by the number of weeks.

Another way of thinking about Carnegie is that ⅓ of the time is meant to involve being with or working with a teacher. So in face to face classes, being in the classroom covers that requirement. Online, that time with the teacher may come in different ways: you can count the time you spend participating in a discussion; the feedback you give in comments on papers or projects; the coaching you might give to students working in small groups; a lecture you may upload in the form of pages that are read, audio that is listened to, or video that is watched. The key to it all is teacher presence. Achieve that, and you achieve Carnegie parity.

With ⅓ of those hours as Time In Class, you get the TIC, and with ⅔ time out of class, you get the TOC, keeping track of total student workload for Carnegie Unit purposes.

Module 1: Overview of Educational Technology - Weeks 2 & 3

Weekly Objectives	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, discussions etc.)	TIC	TOC	Notes
Define educational technology Describe how technology is used in school	CO1 CO1	Read ● Read Chapters 1 & 2 in the text ● Read Lecture Notes in Module 1 ● View Supplemental Resources in Module 1		5	

Explain how technology impacts teachers and students with respect to benefits and challenges	CO3	Discussions • Post to discussion on learning styles (Critical Discussion #1; FEAPs 1.3, 1.6, 2.8, 3.7, 3.8, 4.1, 4.4, 5.2)	2	
Identify current national educational technology standards	CO8	Technology Projects • Create a concept map due by 11:59 PM on 9/6	6	
Compare and contrast major theories of learning	CO3	Assessments • Take module 1 ungraded self-assessment (optional) to prepare for the graded module 1 assessment • Take module 1 graded assessment		3
Explain why it is important for teachers to update their educational technology literacy	CO3			
Explain how to use technology to address diverse student needs	CO7			
Explain how to use technology to address diverse student needs	CO7			
Identify and describe basic computer concepts	CO1			
Plan for the integration of technology in the classroom	CO3			

Module 2: Communication Systems - Weeks 4 & 5

Weekly Objective	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Explain what an electronic communication system is	CO1	Read ● Read Chapters 3, 4, & 5 ● Read Lecture Notes in Module 2 ● View Supplemental Resources in Module 2		5	
Describe the World Wide Web and how it is used in education	CO2				
Explain the function and role of computer networks in education	CO2	Discussions ● Post to discussion on e-learning	2		
Explain the role of e-learning (blended/hybrid, fully online, and remote learning) in K12 education	CO3	Assignments ● Develop a Web Quest (Critical Assignment #2; FEAPs 1.1, 1.2, 1.3, 1.4, 1.6, 2.4, 2.7, 2.8 2.9, 3.1, 3.2, 3.5, 3.6, 3.7, 3.8 4.2, 4.3, 4.4, 4.6, 5.2)	6		
Identify the different learning management systems (LMS) used in K12 education	CO3				
	CO3	Assessments		3	
	CO3				

Evaluate online resources for education (e.g., open educational resources and digital texts)		● Take module 2 ungraded self-assessment (optional) to prepare for the graded module 2 assessment ● Take module 2 graded assessment			

Module 3: Educational Resources - Weeks 6 & 7

Weekly Objective	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Identify and describe what integrated learning systems are & how they are used in education Evaluate technology resources	CO3 CO4	Read ● Read Chapter 6 ● Read Lecture Notes in Module 3 ● View Supplemental Resources in Module 3		5	
		Discussions ● Post to discussion on integrated learning systems	2		
		Assignments ● Create a two-page Wiki	6		
		Assessments Take module 3 ungraded self-assessment (optional) to prepare for the graded module 3 assessment Take module 3 graded assessment		3	

Module 4: Web 2.0/3.0 Tools & Educational Apps - Weeks 8 & 9

Weekly Objective	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Evaluate Web 2.0/3.0 tools Identify, describe, and use different Web 2.0/3.0 tools	CO4 CO4	**Read** ● Read Chapter 7 ● Read Lecture Notes in Module 4 ● View Supplemental Resources in Module 4		5	
		Discussions ● Post to discussion on Web 2.0/3.0 by 11:59 p.m. on 10/18	2		
		Assignments ● Create a Kahoot activity by 11:59 PM on 10/18 ● Begin to work on Blog Project (Critical Assignment #3; FEAPs 2.7, 2.9, 3.7, 6)	6		
		Assessments ● Take module 4 ungraded self-assessment (optional) to prepare for the graded module 4 assessment ● Take module 4 graded assessment		3	

Module 5: Multimedia - Weeks 10 & 11

Weekly Objective	Course outcome	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Describe the benefits of using multimedia in education	CO5	Read ● Read Chapter 8 ● Read Lecture Notes in Module 5 ● View Supplemental Resources in Module 5		5	
Identify, describe, and use different types of media	CO5	Discussions ● Post to discussion on multimedia	2		
Describe the benefits of using multimedia in education	CO5	Assignments ● Create a narrated PowerPoint or Prezi ● Continue to work on Blog Project (Critical Assignment #3; FEAPs 2.7, 2.9, 3.7, 6)		6	
		Assessments ● Take module 5 ungraded self-assessment (optional) to prepare for the graded module 5 assessment Take module 5 graded assessment	3		

Module 6: Traditional and Cutting-Edge Technologies- Week 12

Weekly Objective	Course outcome	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Explain how to evaluate traditional and cutting-edge technologies	CO6	**Read** ● Read Chapter 9 ● Read Lecture Notes in Module 6 ● View Supplemental Resources in Module 6		5	
Identify, describe, and use traditional technologies in teaching and learning	CO6	**Discussions** ● Post to discussion on traditional and cutting-edge technologies	2		
		Assignments ● Create a podcast ● Continue to work on Blog Project (Critical Assignment #3; FEAPs 2.7, 2.9, 3.7, 6)	6		
		Assessments ● Take module 6 ungraded self-assessment (**optional**) to prepare for the graded module 6 assessment ● Take module 6 graded assessment		3	

Module 7: Technology for ELL and Exceptional Learners - Weeks 13 & 14

Weekly Objective	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Identify and describe technology resources that support the academic development and success of English Language Learners (ELLs) Identify and describe different types of assistive technology devices Identify and explain the principles of universal design	CO7	**Read** ● Read Chapter 10 ● Read Lecture Notes in Module 7 ● View Supplemental Resources in Module 7		5	
	CO7	**Discussions** ● Post to discussion on supporting ELLs and ESE student	2		
	C07	**Assignments** ● Create an accessible YouTube video ● Continue to work on Blog Project (Critical Assignment #3; FEAPs 2.7, 2.9, 3.7, 6)	6		
		Assessments ● Take module 7 ungraded self-assessment (**optional**) to prepare for the graded module 7 assessment ● Take module 7 graded assessment		3	

Module 8: Legal, Ethical, & Social Issues - Weeks 15 & 16

Weekly Objective	Course out-come	Activity (Scenario, assigned reading, homework, quiz or test, small group work, etc.)	TIC	TOC	Notes
Identify the legal, social, and ethical issues related to the use of technology in the classroom Identify and explain different types of security risks	CO8	**Read** ● Read Chapter 11 ● Read Lecture Notes in Module 8 ● View Supplemental Resources in Module 8 ● Review Lecture Notes in Modules 1-8		5	
		Discussions ● Post to discussion on the digital divide and legal, social, and ethical issues ● Submit Blog Project (Critical Assignment #3; FEAPs 2.7, 2.9, 3.7, 6) by 11:59 PM on 12/2	2		
		Assessments ● Take module 8 ungraded self-assessment (**optional**) to prepare for the graded module 8 assessment by 11:59 PM on 12/2 ● Take module 8 graded assessment by 11:59 PM on 12/2 ● Take final exam between 12/2 (8:00 AM) and 12/6 (11:59 PM) ● Complete course survey between 12/2 (8:00 AM) and 12/6 (11:59 PM)	5		