Miami Dade College

Course Competencies Template - Form 112

GENERAL INFORMATION	
Name: Dr. Susan Neimand	Phone #: (305)237-6152
Course Prefix/Number: EME 2040	Course Title: Introduction to Educational Technology
Number of Credits: 3	

Degree Type	☐ B.A. ☒ B.S. ☐ B.A.S ☒ A.A. ☐ A.S. ☐ A.A.S. ☐ C.C.C. ☐ A.T.C. ☐ V.C.C
Date Submitted/Revised: 02/13/08	Effective Year/Term: 20081

☐ New Course Competency   ☒ Revised Course Competency

Course to be designated as a General Education course (part of the 36 hours of A.A. Gen. Ed. coursework):   ☒ Yes   ☐ No

The above course links to the following Learning Outcomes:

☒ Communication	☐ Social Responsibility
☐ Numbers / Data	☒ Ethical Issues
☐ Critical thinking	☒ Computer / Technology Usage
☒ Information Literacy	☐ Aesthetic / Creative Activities
☒ Cultural / Global Perspective	☐ Environmental Responsibility

Course Description (limit to 50 words or less, **must correspond with course description on Form 102**):

This course provides an introduction to the fundamental concepts, knowledge, skills, and attitudes for applying technology across multiple disciplines and grades levels. Students will learn to manage a productive and safe technology environment and apply tools such as the Internet, academic software, productive software, and emerging technologies.

Prerequisite(s): CGS1060 or Passing Score on the Computer Competency Exam	Corequisite(s):

Course Competencies: (for further instruction/guidelines go to: http://www.mdc.edu/asa/curriculum.asp)

Competency 1: The student will utilize technology concepts, systems and operations by:

1. Selecting and using applications effectively and productively. (NETS-T 1, NSTA 5, NCTM 6)
2. Troubleshooting systems and applications. (NETS-T 1, NSTA 5, NCTM 6)
3. Transferring current knowledge to learning of new technologies. (NSTA 5, NCTM 6)
4. Applying technology to increase productivity. (NETS-T 5, NSTA 5, NCTM 6)
5. Using technology to communicate and collaborate with peers, parents, and the larger community in order to nurture student learning. (FEAP 2, 9, 11, and 12, NSTA 5, NCTM 6)
6. Identifying strategies for the implementation of technology in the teaching and learning process. (FEAP 9, 10, 11, and 12, NETS-T 3, NSTA 5, NCTM 6)

Competency 2: The student will create effective learning environments and experiences supported by technology by:

1. Demonstrating continual growth in technology knowledge and skills to stay abreast of current and emerging technologies. (FEAP 3, NETS-T 1, NSTA 10, NCTM 6)
2. Designing developmentally appropriate learning opportunities that apply technology-enhanced instructional strategies to support the diverse needs of learners. (FEAP 5, 7, 11, and 12, NETS-T 2, NSTA 5, NCTM 6

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3. Applying current research on teaching and learning with technology when planning learning environments and experiences. (FEAP 9, 10, 11, and 12 , NETS-T 2, NSTA 5, NCTM 6)
4. Identifying and locating technology resources and evaluating them for accuracy and suitability. (FEAP 10, 11, and 12, NETS-T 2, NSTA 5, NCTM 6)
5. Planning for the management of technology resources within the context of learning activities. (FEAP 9, 10, and 12, NETS-T 2, NSTA 5, NCTM 6)
6. Planning strategies to manage student learning in a technology-enhanced environment. (FEAP 9, 10, and 12, NETS-T 2, NSTA 5, NCTM 6)

Competency 3: The student will utilize critical thinking skills to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate digital tools and resources by:

1. Identifying and defining authentic problems and significant questions for investigation. (FEAP 4 and NETS-T 1)
2. Planning and managing activities to develop a solution or complete a project. (FEAP 10 , NETS-T 2, NSTA 5)
3. Collecting and analyzing data to identify solutions and/or make informed decisions. (FEAP 3 and NETS-T 2 and 5)
4. Using multiple processes and diverse perspectives to explore alternative solutions. (NETS-T 4)

Competency 4: The student will use digital media and environments to communicate and work collaboratively to support individual learning and contribute to the learning of others by:

1. Interacting, collaborating, and publishing with peers, experts or others employing a variety of digital environments and media. (FEAP 3 and 12 and NETS-T 1)
2. Communicating information and ideas effectively to multiple audiences using a variety of media and formats. (FEAP 3 and 12 and NETS-T 1 and 5)
3. Developing cultural understanding and global awareness by engaging with learners of other cultures. (FEAP 5 and NETS-T 1)
4. Contributing to project teams to produce original works or solve problems. (NETS-T 1)

Competency 5: The student will use digital tools used to gather and evaluate information by:

1. Locating, organizing analyzing, evaluating, synthesizing, and ethically using information from a variety of sources and media. (FEAP 8, 10, 11, and 12 and NETS-T 1)
2. Evaluating and selecting information sources and digital tools based on the appropriateness to specific tasks. (FEAP 8, 9, 10, 11, and 12, NETS-T 1 and 2, NSTA 5, NCTM 6)
3. Identifying appropriate software to prepare materials, deliver instruction, assess student achievement, and manage classroom tasks. (FEAP 8, 9, 10, 11, and 12, NETS-T 2, NSTA 5, NCTM 6)

Competency 6: The student will analyze human, cultural, and societal issues related to technology and practice legal and ethical behavior by:

1. Identifying policies and procedures for the safe and ethical use of the Internet, networks, and other electronic media. (FEAP 6, 9, and 12, NETS-T 6, NSTA 9)

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2. Advocating and practicing safe, legal, and responsible use of information and technology. (FEAP 6, 9, and 12, NETS-T 6, NSTA 9)
3. Examining legal and ethical practice related to technology use. (FEAP 6, NETS-T 6, and 12, NSTA 9)
4. Identifying appropriate classroom procedures for student use of available technology. (FEAP 6, 9, and 12, NETS-T 2, NSTA 5, NCTM 6)
5. Applying technology resources to enable and empower learners with diverse backgrounds, characteristics, and abilities. (FEAP 5, NETS-T 6, NSTA 5, NCTM 6)
6. Identifying and using technology resources that affirm diversity. (FEAP 5 and NETS-T 6)
7. Promoting safe and healthy use of technology resources. (FEAP 9 and 12, NETS-T 6, NSTA 5, NCTM 6)
8. Exhibiting a positive attitude toward using technology that supports collaboration, learning, and productivity. (NETS-T 5)
9. Demonstrating personal responsibility for lifelong learning. (FEAP 3, NETS-T 1, NSTA 10)
10. Exhibiting leadership for digital citizenship.

Competency 6: The student will apply methods and strategies of technology to maximize student learning by:

1. Facilitating equitable access to technology resources for all students. (FEAP 5, 9, and 12, NETS-T 3, NSTA 5)
2. identifying strategies for instructing students in the use of search techniques, the evaluation of data collected, and the preparation of presentations.(FEAP 12, NSTA 5, NCTM 6)
3. Facilitating technology-enhanced experiences that address content standards and student technology standards. (FEAP 9 and 12, NETS-T 3, NSTA 5, NCTM 6)
4. Using technology to support learner-centered strategies that address the diverse needs of students. (FEAP 8 and 12, NETS-T 3, NSTA 5, NCTM 6, ESOL 7, 15, 17)
5. Applying technology to develop students' higher order skills and creativity. (FEAP 4 and 12, NETS-T 3, NSTA 5, NCTM 6)
6. Managing student learning activities in a technology-enhanced environment. (FEAP 9 and 12, NETS-T 3, NSTA 5, NCTM 6)
7. Using technology resources to engage in ongoing professional development and lifelong learning. (FEAP 3, NSTA 10)
8. Evaluating and reflecting on professional practice to make informed decisions regarding the use of technology in support of student learning. (FEAP 3, NETS-T 1, NSTA 10)

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