

Creating and Maintaining the Technology-Infused Classroom

EDUO 9143 3 Semester Credits/Units

Instructor – Joe Herz

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Note: This is a Public syllabus of the course. For a full detailed syllabus please email the instructor.

Course Overview

Every teacher's current use of technology to best facilitate student learning is unique. Provided with varying levels of technology resources and training to infuse technology into classroom curriculum and delivery, teachers may feel they are not successfully meeting the needs of their digital learners. Using ISTE Standards as guidance points, this course will assist in the development, delivery and growth of a tech-infused teacher-guided curriculum that supports and encourages student engagement. The course theme recognizes that technology is not the maker of successful students but that technology when woven into a teacher-guided environment, can seamlessly assist all student in becoming successful, responsible learners ready to thrive in a digitally connected world.

The course will also engage participants in use of proven and emerging online tools, apps, instructional lessons, planning and in creating learner-driven activities that leverage the digital student's affinity with technology tools and usage.

Course Objectives

This course will give students opportunity to:

- Identify and evaluate use of all teacher and student technology-based tools, apps, connectivity, facilities and resources currently available in and out of their classroom
- Discover and evaluate technology tools and online resources that support curriculum standards and objectives
- Produce and share a variety of technology-based activities and products
- Understand the importance of a teacher's facilitating role to successfully weave technology into curriculum
- Report and consider adaptation of authentic technology-infused learning activities that support CC, ISTE and other nationally recognized educational standards
- Use course-based forums and folders to peer share products and classroom tech-based management strategies.
- Create short and long-term goals to develop and sustain meaningful technology-rich curriculum for students

Course Relation to Professional Standards

This course aligns to:

- The [National Board for Professional Teaching Standard's](#) in the following propositions:
 - Proposition 1: Teachers Are Committed to Students and Their Learning
 - Proposition 3: Teachers Are Responsible for Managing and Monitoring Student Learning
 - Proposition 4: Teachers Think Systematically About Their Practice and Learn from Experience
 - Proposition 5: Teachers Are Members of Learning Communities
- The [International Society for Technology and Education](#) Teacher and Student Standards.

How to Complete and Submit Coursework

Each completed assignment in this course is submitted to the instructor for review. Each assignment will have directions for preparation, content and where to submit work. Where Name each file with your last name and assignment number (i.e. BrownAssignment3. Make sure you place your full name, course number and assignment number at the top of each written document page. You will receive feedback within 2-5 days indicating successful completion of the assignment or the need for revision. Assignment grades will be averaged for the final course grade.

Assignments can be completed using Word, Pages (convert them to Word) to place in the course Dropboxes or if instructed, shared through Google Drive. If completed in Drive, please create a course folder to share with me (jherz@dominincancaonline.com) and give editing rights to each document. Be sure to share each assignment piece as completed. Just placing items in the folder will not generate a share notification to me. Thanks!

Grading rubrics for written projects and for presentation projects are found in this document.

Course Assignments

Assignment 1: Technology Assessment

Objective: To assess availability of all tools and resources and your philosophy that will help create and maintain a technology-infused Classroom.

Create an inventory of every technology resource currently available to you, students you serve and parents/guardians of those students. The goal is to list ALL available items. It does not matter if school, student or parent owned. It does not matter if they are currently being used by you or by students for assignments. Do some digging to make a comprehensive list. Images and class or district sites/documents are welcome to be included as support. Organize your list as follows

The inventory can be in the form of a spreadsheet or word processing document (insert a table to help organize if you like) and must include the following categories with names, numbers and availability.

A. Tools Available

1. Number of Desktops; laptops; tablets including iPads; smartphones.
2. Write a short paragraph to summarize your findings

B. Connectivity Availability

C. Tech Support Personnel Availability

1. Professionals; site or district level personnel to assist with technology

2. Write a short paragraph to summarize your findings

D. Software/Apps Availability

1. List the software, the district management tools and other apps used for and by students

2. Write a short paragraph to summarize your findings

E. Evaluate results of A-D by writing final summary. Self-evaluate how well you are utilizing available resources.

Questions F and G are not part of the inventory but need to be answered.

F. What is your philosophy regarding assignments that require use of technology outside of class? Consider when and where they could go to work if they don't have any resources at home.

Submit your work for Assignment 1 as a single document in the Assignment 1 Dropbox

Assignment 2: Keeping up with Technology

Objective: To explore and assess free online apps, tools and opportunities for K-12 teachers and students

In Assignment 1 you inventoried, assessed and summarized available software and apps. In Assignment 2 you are going to locate software and apps you may not be familiar with. Use the A.1, 2 and 3 lists provided below AND your own (A.4) research to discover new-to-you software and apps that are relevant to your area of education. Relevance doesn't mean you would use the item full time, but it would make a good addition or option to your area.

1. Productivity Software and Apps

1. Productivity: Webquests; Edmodo; Google Tools (GAFE), WeVideo, Wordcloud, Animoto, Voki, iMovie

2. Resources: Learnzillion

3. Management:

4. Self-Discovery: *Locate 5 relevant tools, studies, mentors, and partnerships*

Include urls of all software and apps. Images and class or district sites/documents are welcome to be included as support.

Submit your work for Assignment 2 as a single document in the Assignment 2 Dropbox.

Assignment 3: Teacher Role - Guide and Inspire Responsible Technology Usage

Simply having access to technology tools doesn't impact student learning. A teacher's leadership is crucial to successful use. How effectively you, the teacher employs technology to assist learning, creativity and classroom enjoyment is your responsibility. Education and technology are currently at a fairly stable and comfortable stage. No longer is having tech tools and being a techie classroom teacher thought of as unique. Education is at a stage where **not** having tech is unusual. This assignment gives you opportunity to evaluate and improve on your knowledge and organization of tech integration and tech-centered classroom management.

A. Research and assess tech-based curriculum delivery, classroom management and learning practices.

Your task for each of the 7 items in **A** is to research each of the topics. Then:

- Write a short summary in your own words and tell why each could or could not work in your current educational job.
- Locate and include 2 YouTube and 2 TED Talk links to support 4 of the items.

The goal of this course is for you to assess and improve on technology's role in your job. Be honest. Don't write what you think the instructor wants to hear. Organize your responses in a logical, easy to follow format.

1. Student-Centered classroom
2. Facilitated Teaching
3. Personalized Learning
4. Flipped Classrooms

B. Modeling Technology Use and promote effective use of technology for all learners

1. How are you modeling and promoting effective uses of technology for all learners?

C. Teaching Digital Citizenship

- Define Digital Citizenship in your own words. Cite the resource(s) used. Consider referring to this site: [11 Principals of Character Education](#)
- What are you doing to promote the development of responsible digital citizens based on the following ISTE standards:
 - Students cultivate and manage their digital identity and reputation and are aware of the permanence of their actions in the digital world.

D. Research and planning before applying the App - The Right Tool at the Right Time

1. How do you decide if a new App is the right tool for you to use with students?

E. Empowering students with tech options to proceed as independent learners

1. ([ISTE 6](#)): Students choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication. Technology offers students many options on how to display knowledge in unique and creative ways. Are your students either as individuals or as a collaborative group all required to use the same tool to complete work assignment after assignment? What options do you provide?

F. Collaboration is for Teachers Too ([ISTE Teachers 5](#)) Describe:

1. How you collaborate online with other teachers to prepare grade level curriculum or set learning goals to individualize curriculum?
2. If you work with another on-site teacher to develop cross-curricular projects with shared students. For example, a science teacher and language teacher.

G. Summarize and self-assess Assignment 3 in a 4-5 sentence paragraph.

Submit your work for Assignment 3 as a single document in the Assignment 3 Dropbox.

Assignment 4: Facilitate and Inspire Achievement and Competency

Let's move away from written responses. You are a technology/media leader in your school representing either grades K-3, 4-8 or 9-12. The presentation would be shown to a group of parents concerned with their children's use of technology in school. Your goal is in part to present them with an overview of "tech use to empower choosing, achieving and demonstrating competency in their learning goals." ([ISTE 1](#))

Create a media presentation using either Prezi, PowerPoint or Google Slides (Presentation) to complete the following 8 objectives below. The presentation must capture the audience's attention and maintain it while stating its purpose and backed up with succinct, researched and relevant content. Number each slide to match the objective being met. Several objectives may be met using one slide, others should not. Be creative.

Meet the following objectives in your presentation.

1. Presentation purpose.
2. The function and necessity of technology in your grade level, subject or program.
3. Deciding when to assign low or no-tech coursework.
4. Summarize

Submit your Assignment 4 presentation file or a document that has a link to the presentation in the Assignment 4 Dropbox.

Assignment 5: Evidence of Creative Communicators ([ISTE Teachers 6](#))

There are 2 parts to this assignment, A and B

A. Share 2 examples of student-created products that were completed using technology tools. The products will be uploaded to a Moodle Forum. K-3 teachers can submit examples of products they prepared for teaching purposes with students or present to parents. If you do not have access to student files or projects (Summer ONLY) create an example of a student project.

- Word Processing documents are NOT acceptable as evidence.
- PowerPoints, Google Slides, Prezi, videos, Powtoons, Spreadsheets, Digital Art are acceptable. To submit the evidence:
 - Place/Upload the project into the Shared Assignment 5 Document Sharing Forum in Moodle Follow the instructions found in the Forum area regarding project descriptions. For files too large to upload, contact me for any assistance jherz@dominicancaonline.com
- **The files will be readable and downloadable by other students in this course. Be good digital citizens and respect the rights and property of others.**

Post your Part A work for Assignment 5 as a New Discussion topic in the Assignment 5 Document Sharing Forum.

B. Post to a Collaborative Wiki. This is an open Wiki. Read the instructions and add (EDIT) your contribution. Make sure to not alter existing content.

Assignment 6: Redefining Learning Experiences [ISTE Teachers 2](#)

For this assignment, you will need to use Google Slides. Take a new lesson or one you have taught **without the use of technology** and redefine it using the four SAMR model levels:

- Substitution – technology is used as a direct substitute for what you might do already, with no functional change.
- Augmentation – technology is a direct substitute, but there is functional improvement over what you did without the technology.
- Modification – technology allows you to significantly redesign the task.
- Redefinition – technology allows you to do what was previously not possible.

Resources:

[SAMR model \(pdf - 827.64kb\)](#)

Create the SAMR model using Google Slides. Create a Drive account if you do not have one. The link to this shared Slides document. Make a copy of the document, save it to your Drive area and begin by filling in the Title slide with your redefined project name, a sentence about project and your name. Complete each of the four SAMR levels. Be detailed but succinct, filling in each slide's text area. Share the completed project with me, giving me editing rights.

Assignment 7: Looking Ahead – Charting Realistic Tech-Infusion Plans

Has your technology pedagogy changed after taking this course? Yes (hopefully) or no, it's time to summarize, analyze and reflect to plan your next steps to infuse more technology into your classroom.

This assignment has two parts. Both will be created using **Google Drive**, logging into your account and access the planning templates. Your plan may include reorganizing your classroom space, definitely point out changes in how you present curriculum and how you will have options when appropriate in how they meet objectives using technology choices. For a little inspiration link to: <https://youtu.be/q5icvi10cLY>

A. Create a realistic short-term 3-month technology infusion plan. The plan will be enacted during the next 3-month period you are with students. The plan's objective is to further engage your students in effective uses of technology.

Use this Google Document to create your short-term plan. Instructions are on the document.

B. Create a realistic 1-2 year technology infusion plan. The plan will be enacted over the next 1-2 years. Keep the plan realistic. The plan's objective is to further engage current and future students in effective uses of technology.

Use this Google Document to create your long-term plan. Instructions are on the document.

Course Assessment Rubric

<p align="center">EXCELLENT</p> <p align="center">Meets or Exceeds Course Objectives: A to A-</p>	<p align="center">ACCEPTABLE</p> <p align="center">Majority of Work Meets Course Objectives; B+ to B-</p>	<p align="center">NOT ACCEPTABLE</p> <p align="center">Needs Considerable Improvement: Resubmit Work Suggested: C or below</p>
Shows exemplary understanding of course objectives evidenced by completion of required course assignments.	Shows basic understanding of course objectives evidenced by completion of required course assignments.	Needs more time to develop an understanding of course objectives.
<p>All course assignment requirements were completed per instructions. Written work, media files, postings within Moodle and to sites outside of Moodle were completed.</p> <p>Quality of media work is exceptional and supports assignment objectives.</p> <p>Assignment responses reflect necessary research, reflective thoughts and summations.</p>	<p>The majority of course assignment requirements were completed per instructions. Written work, media files, postings within Moodle and to sites outside of Moodle were completed.</p> <p>Quality of media work is exceptional and supports assignment objectives.</p> <p>Assignment responses reflect necessary research, reflective thoughts and summations.</p>	<p>Needs more time to develop assignment requirements per instructions, including written work, media files, postings within Moodle and to sites outside of Moodle were completed.</p> <p>Quality of media work is not acceptable.</p> <p>Assignment responses do not reflect necessary research, reflective thoughts and summations.</p>
<p>All responses are organized very well. Work is original. Supporting material easy to locate, clearly labeled and related to the corresponding assignment.</p>	<p>Organized fairly well. Work is original. Supporting material somewhat hard to locate and loosely related to corresponding assignment. Is generally organized and labeled.</p>	<p>Organized poorly. Not all work is original. Supporting material difficult to locate or not present and/or not related to corresponding assignment. Assignments are poorly labeled.</p>
<p>Free of spelling and grammatical errors. Word processing files and other document files were completed using required formatting.</p>	<p>Most work is free of spelling and grammatical errors. Most word processing and other document files were completed using required formatting.</p>	<p>Numerous spelling and grammatical errors. Word processing and other document files are poorly formatted.</p>