

Google Drive and Gemini AI
EDUO 9368 3 Semester Credits/Units

Instructor - Joe Herz

jherz@dominicancaonline.com



***Course Syllabus – This is a partial syllabus. For a full syllabus please email the instructor.
Thank you.***

Course Overview:

Combine Google Drive and Google Gemini AI chat to develop a unit of study in a subject of your choice. AI is increasingly assisting educators with the creation of engaging, authentic learning experiences. Use ISTE Educator and Student standards to support the partnership of Drive and Gemini with your innovative curriculum development goals. Achieve a deeper understanding of AI functionality in the process. Course requirements: A Google account (email) for use of Google's Gemini (free) chatbot, is preferable for course success. Registering for free AI tools will be necessary. Please preview the syllabus for specifics.

The question to teachers and students has already migrated from "Have you used AI?" to, "How did you use AI?" So, let's work on the "how" in this course. Use AI to assist in the development of a full teaching and learning unit on a subject of your choice that will guide students to meeting specific learning objectives.

To use the Gemini web app, gemini.google.com, you'll need to sign in with a Google Account. Use of Google Apps gives you direct access to Google AI.

Course Learning Objectives: In this course, participants will have opportunity to:

- Understand how AI can support K-12 teaching and learning
- Gain experience with use of AI Resources to assist with curriculum development
- Develop a full lesson plan / unit of study to use with your students
- Evaluate the value of AI to assist you and your students in meeting learning objectives

Course Relation to CCS or other Professional Standards:

- [ISTE](#)
- [National and State Standards](#)
- [STEM/STEAM](#)

Submitting Assignments

Completed assignments can be shared via Google Drive OR as a word processing document or PDF placed in the corresponding assignment Dropbox in Moodle.

Google Drive Sharing:

- Gmail address to use: jherzdominicancourses@gmail.com

- Suggestion: Create a shared Drive folder. Name it with your last name and EDUO 9368. i.e. Roberts EDUO 9368.

- Share each document separately and please give me editing rights. Just placing the document in will not generate a notification.

- Assignment names: include Your last name and *Assignment #*, i.e. RBrown EDUO 9368 Assignment 3

Moodle Dropbox Sharing:

- Do not save a Google Drive link in a dropbox, just word processing documents or PDFs. Google Drive documents must be shared directly from Drive. The instructor will be notified when you have placed an assignment in a Moodle Dropbox. Other assignments may require you notify the instructor by email when tasks are completed.

IMPORTANT: Make sure your name and the assignment number is located at the top of each document submitted. The file name must also include your last name, assignment # and course # i.e. Roberts, Module/Assignment 1 EDUO 9368.

Before you begin: The AI search/chat for this course will be Google's [Gemini](#). The benefit of staying with the same chat tool is that as you enter in new prompts about a topic, the AI search will build upon prior search prompts and information provided to you. For instance, your prompt asks to plan a unit of study on the Solar System. You receive results. Then you ask to create some images or an outline or how the planets received their names, you can just ask – no need to use “solar system”, the chat will retain the main topic and preceding questions will be considered in the answers. Also, the selective AI chat should retain your searches in the account you create so that you can access the search content later.

Before proceeding with Gemini to help develop your unit, remind yourself of the pros and cons of using AI tools to assist you with your goals. Gemini will remind you of several points to keep in mind at all times.

Gemini will not always get it right




Gemini may give inaccurate or offensive responses. When in doubt, use the Google button to double-check Gemini's responses.

Course Modules

Module 1: AI Use in K-12 Education	
Objective	Achieve an understanding of how AI can support K-12 Education.
Assignment(s) Include Activities and Needed Materials	<p>There is 1 item to complete and submit for this module</p> <p>You are a school site, media coordinator that will present a PD session to classroom staff as one in a series of PD sessions on effectively using AI to add value to teaching and learning.</p> <p>Use the prompt in Gemini to retrieve assistive advice on topics to include and, for specific resources to assist. Use Slides, Canva or PowerPoint to create a presentation project that you will present to the staff.</p> <p><i>SUGGESTED PROMPT to start with: “Achieve a basic understanding of how AI’s structure integrates with K-12 Education”</i></p> <p><i>Use search engines to find supportive content to use in the presentation. Gemini use is required to assist with the presentations structure, slide content and flow.</i></p> <p>Presentation Guidelines:</p> <ul style="list-style-type: none"> - Limit the use of videos (<u>1 or 2 short ones</u>) or other media other than what you may have created. It is your voice (figuratively) unpacking the information you have researched. The content is your words. AI is only assisting with ideas for content and flow of the ideas/slides. <p>Presentation structure:</p> <ol style="list-style-type: none"> 1 – Title, Goal of the presentation 2 – List of topics covered in the presentation. These topics will need a link directly to the slide’s topic. On each slide create a link back to Slide 2. Last Slide – Short recap and list all resources not already cited. <p>This assignment will show the course instructor the learning you obtained from your prompts and your ability to create an engaging and informative presentation for peers.</p> <p>Cite all presentation resources.</p> <p>Submit your completed Module 1 assignment to the Module 1 Dropbox in Moodle or submit via Drive to jherzdominicancourses@gmail.com</p>
Assessment	Assessment will be based on the course rubric, meeting assignment objectives.

Module 2: Exploring use of Google's Gemini AI chat and AI	
Objective	Learn more about Google's Gemini AI and Google Commitment to AI Usage
Assignment(s) include Activities and Needed Materials	<p>There are 2 items to complete and submit for this module</p> <p>1) Review the following to discover how Google Gemini AI works and hints on how to use it effectively to assist with curriculum development.</p> <p>a. How to Use Google Gemini AI: 14 Ways It Can Make Your Life Easier</p> <p>b. Gemini Apps FAQ</p> <p>- Create a document....</p> <p>2) Read <i>A Guide to AI in Education</i>, pdf found in the course resources in Moodle. Within the document, link to Spend some time reading through Google's commitment to responsible, safe and ethical usage of AI to support all users of AI in education.</p> <p>- Create a 1 to 2-page reflective document on what you read. The document should be ...</p> <p>Submit your completed Module 2 assignments to the Module 2 Dropbox in Moodle or submit via Drive to jherzdominicancourses@gmail.com</p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Module 3: Your Unit of Study Topic	
Objective	Finalize the topic and scope of the project you will develop for this course, using AI to assist write the initial Overview and Standards.
Assignment(s) include Activities and Needed Materials	<p>There is 1 item to complete and submit for this module</p> <p>Make sure you have read through the entire syllabus before finalizing the topic for your unit of study. This will help to ensure your topic will be a viable fit for the course objectives. Similarly, review the unit of study template found in Moodle. The following will ALSO be used in the final course assignment when you submit your full unit of study.</p> <ul style="list-style-type: none"> - Create a 1 to 2-page document detailing: <ul style="list-style-type: none"> - Unit Topic (name) - Grade Level and Subject(s) - Overview Paragraph (3-4 sentences) - - - - The Overview and Standards created for this module will also be used in your final project, Module 7. <p>Submit your completed Module 3 assignment to the Module 3 Dropbox in Moodle or submit via Drive to jherzdominicancourses@gmail.com</p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Module 4: Using AI to create images	
Objective	 <p>Use Gemini (or alternatives) to create an AI images The image created can be download and/or copied and pasted into a project. <i>At this time Gemini is not able to create images of people.</i></p>
Assignment(s) Include Activities and Needed Materials	<p>There is 1 item to complete and submit for this module a. Use Gemini to create two AI image to use... <i>Download and save the images to use.... Use one or both images multiple times in the unit or other assignment such as Module 6) as applicable.</i></p> <p>For a higher quality image generator and one that include humans, try... A free, limited use registration is available. You can create and copy/past images without an account. The same prompt used in Gemini created these three offerings in AI Image Generator:</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Images can be refined to personalize results.</p> <p><i>“AI interprets your text descriptions, understanding both natural language and structured prompts. It then applies advanced algorithms to generate high-quality images based on your input.”</i></p> <p>b. Copy/paste your images into a Drive document. Write... Submit your completed Module 4 assignment to the Module 4 Dropbox in Moodle or submit via Drive to jherzdominicancourses@gmail.com (<u><i>Download Drive documents as Office docs if being submitted in the Moodle Dropbox.</i></u>)</p>
Assessment	Assessment will be based on the course rubric, meeting assignment objectives.

Module 5 Post to ongoing Drive projects	
Objective	Add to two, course-related ongoing AI projects in Drive.
Assignment(s) Include Activities and Needed Materials	<p>Although only a few modules into the course, two Drive posting assignments are being assigned in this module. NOTE: You do NOT have to complete either one of the 2 assignment parts currently. You can wait until you are further into the course. But be sure to complete both parts before completing the course.</p> <p>There are 2 items to complete and submit for this module 1) Link to Module 5: Add to the story as detailed in the project 2) Link to the Slide project: Add your slide to the project as detailed in the directions</p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Module 6: AI Presentation Tools	
Objective	Use AI Resources to create a Slides, Canva, Prezi or PP Presentation to use in your unit of study (Module 7) . This Module (6) is the only module assignment using other than Gemini.
Assignment(s) Include Activities and Needed Materials	<p>There are 2 items to complete and submit for this module</p> <p>Use Gemini to create a 7-10 slide presentation. Gemini will not create a presentation but will detail the content of each slide for the presentation. See the example provided: Example of Gemini Creating a 10 Slide Presentation</p> <p>Prompt Gemini to create a slide presentation example on a topic of your choice. You will receive suggested content for each slide. <u>Create a Google Slide presentation from the outline provided.</u></p> <p>Submit two items:</p> <ol style="list-style-type: none"> 1) The Gemini prompt and the content ... 2) The X#-Slide presentation containing: <ul style="list-style-type: none"> - The Gemini suggested content – personalized into your style - - A Gemini suggested K-12 or specific-grade level appropriate YouTube video on your topic. <p>There is not a recommended quality and free, AI Presentation tool to access. Not yet. An example of a free one is Free trial but registration required (see this example for limitations). <u>Note the inaccurate images.</u></p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Module 7: Create the Unit of Study	
Objective	Culmination Course Assignment – Create your full unit of study and supporting documents.
Assignment(s) Include Activities and Needed Materials	<p>Use content from earlier modules as needed. <u>Remember to include your unit presentation created from Module 6.</u> Integrating that into the unit as a helpful resource is at your discretion.</p> <p>Important: Keep in mind that this course is designed to have you use AI to assist with creating a Google Drive, unit of study. Not all content created with the AI tools will be a perfect fit for your teaching style. Refining the AI content is part of learning to use an a chat/creation resource. In that process you will end up with a Before (last, useful AI reply) and an After (your refinement) piece(s) to use. The 5 items below would ideally reflect the After, final products. <u>You do not have to turn in your prompt replies.</u></p> <p>Suggestions to ask Gemini for as you prepare and finalize the unit of study:</p> <ul style="list-style-type: none"> • Current articles, media, blogs, • How to integrate the topic.... • Align

	<p>There are 3 items to complete and submit for this module</p> <p>1) Unit Outline: Create and submit.....</p> <p>2) Unit of Study: The actual unit – Use this formatted template to create your full unit of study to submit. Note that details are important in the unit.</p> <p>3) Unit of Study Supplements: Use AI / Gemini to create the following. <u>Submit each of these a-c as one document.</u> Decide on the best prompt(s) to get results you like.</p> <ul style="list-style-type: none"> a. A letter to parents b. Create an assessment c. Create an Exit Ticket <p>Submit your completed Module 7 assignment to the Module 7 Dropbox in Moodle or submit via Drive to jherzdominicancourses@gmail.com</p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Module 8 AI Reflection and Forum Post	
Objective	Self-assess your experience in using AI resources to assist with developing curriculum.
Assignment(s) Include Activities and Needed Materials	<p>There are 2 items to complete and submit for this module</p> <p>1) Write a reflective assessment on the value of using Gemini AI chat to assist with creating curriculum as was done in this course. Do not include use or experiences with other AI assist tools (i.e. Canva, Magic School, Khanmigo, etc.) Support the reflection with your learning from this course, any usage of AI in your work, and your professional outlook on teacher and student usage of AI chats</p> <p>2) Post to the Module 8 Discussion Forum in Moodle. Forum assignment content found in the Forum instructions.</p>
Assessment	Assignments will be assessed using the Course Assessment Rubric. Feedback will be provided for each completed assignment.

Course Assessment Rubric:

EXCELLENT	ACCEPTABLE	NOT ACCEPTABLE
Meets or Exceeds Course Objectives: A to A-	Majority of Work Meets Course Objectives; B+ to B-	Needs Considerable Improvement: Resubmit Work Suggested: C or below
All work submitted reflects in-depth understanding of course objectives.	Most work submitted reflects in-depth understanding of course objectives.	Work shows little or no in-depth understanding of course objectives.
Assignment responses show evidence of new knowledge evidenced by thoughtful, detailed and accurate assignment responses.	Most assignment responses show evidence of new knowledge evidenced by thoughtful, detailed and accurate assignment responses.	Responses show little to no evidence of new knowledge as evidenced by lack of thoughtful, detailed and accurate assignment responses.
Work submitted was organized and clearly articulated. The student carefully followed all assignment instructions. The instructor did not have to provide continual assignment clarification or request revisions.	Most work submitted was organized and clearly articulated. The student carefully followed all assignment instructions. The instructor had to provide continual assignment clarification or ask for revisions.	Work submitted was not organized or not clearly articulated. The instructor had to provide constant clarification and ask for continued revisions.
Assignment content and required projects were original.	Assignment content and required projects were original.	Evidence that not all assignment content and required projects were original.
Work is free of spelling and/or grammatical errors.	Work has few spelling and/or grammatical errors.	Work has numerous spelling and/or grammatical errors.

Supplemental Resources:

- [Google Workspace for Education](#). Extend the use of Gemini AI With Gemini for Google Workspace, you can use AI-assisted features to draft emails, revise documents, and more.
If you have a work or school Google Account, you can use Gemini if your Workspace administrator has enabled access. If you have a personal Google Account, Gemini is available with [Google One AI Premium](#). Some of the features are also available through our early access testing program, [Google Workspace Labs](#).
- Lesson Planning with AI: Source: <https://clickup.com/blog/ai-tools-for-lesson-planning/>
- Google's [Generative AI for Educators](#) "As a teacher, we know your time is valuable and student needs are broad. With Generative AI for Educators, you'll learn how to use generative AI tools to help you save time on everyday tasks, personalize instruction, enhance lessons and activities in creative ways, and more."

- Teams across Google are actively creating and curating content and tutorials. Here are a few of our favorites, with more on the way:

[A Guide to AI in Education](#)

[Grow with Google: AI and machine learning courses](#)

[Applied Digital Skills: Discover AI in Daily Life](#)

[Google Cloud Skills Boost: Intro to Gen AI Learning Path](#)

[Introduction to Machine Learning](#)

[Google Arts & Culture: overview of AI](#)

[Experience AI](#)