Al Tools for Quality Course Design:

Improving the Student Learning Experience

Welcome ELCC Learning Community!

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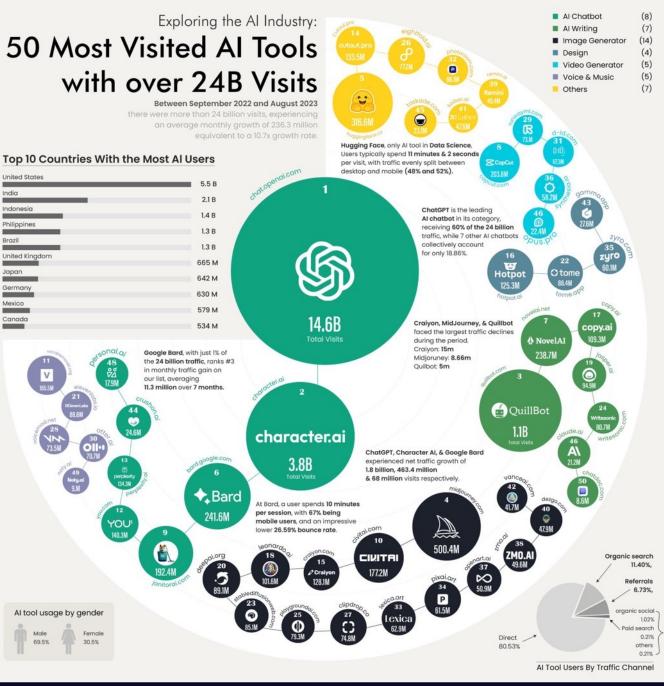
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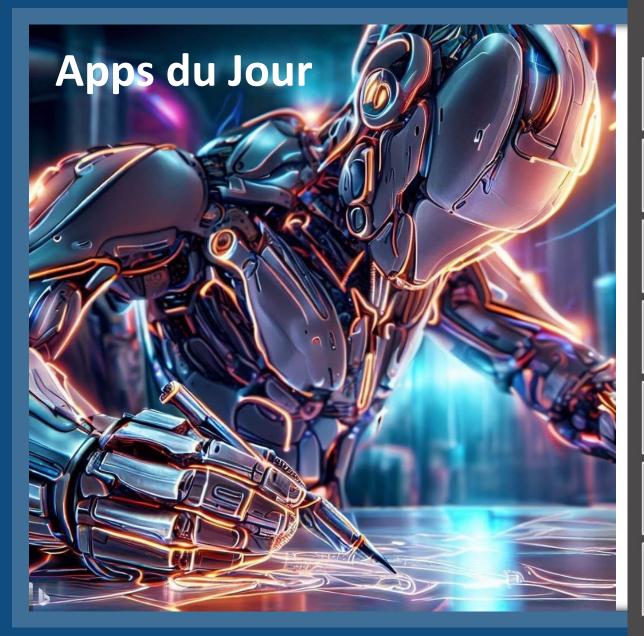
"Using Artificial Intelligence to Enhance Human Intelligence." ©



"Using Artificial Intelligence to Enhance Human Intelligence." ©

ARTIFICIAL INTELLIGENCE --> HUMAN INTELLIGENCE

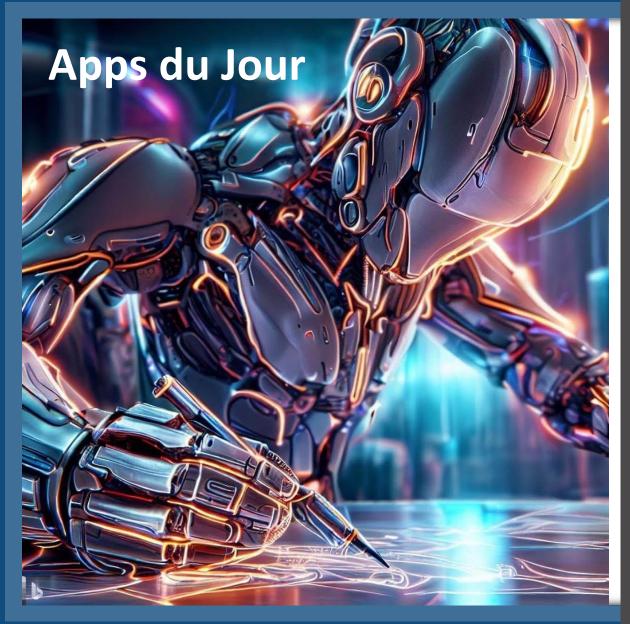




Useful AI Tools

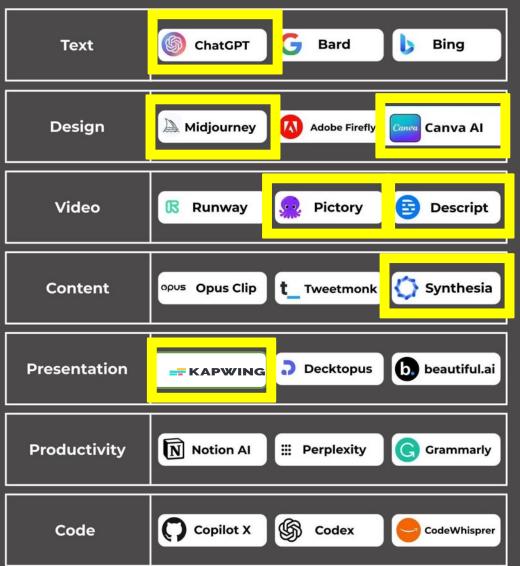
Free AI newsletter: TheIntelligo.com





Useful AI Tools

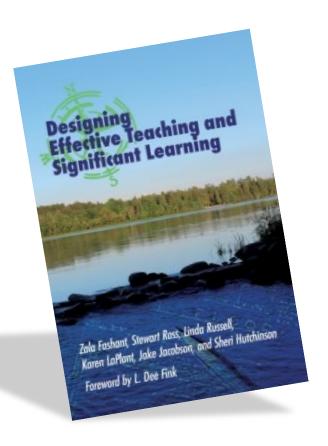
Free AI newsletter: TheIntelligo.com



Innovation Synergy

Presentation Resources





Designing Effective Teaching and Significant Learning

Paperback or eBook

Is-courses.com

Innovation Synergy

Presentation Resources

Online Self-paced Courses and Certificate





Designing the Future of Effective Teaching and Significant Lifelong Learning

Online Course Design Institute OCDI (One Design, Multiple Deliveries)

AI Tools for QUALITY Course Design

Is-courses.com

Today's Goal





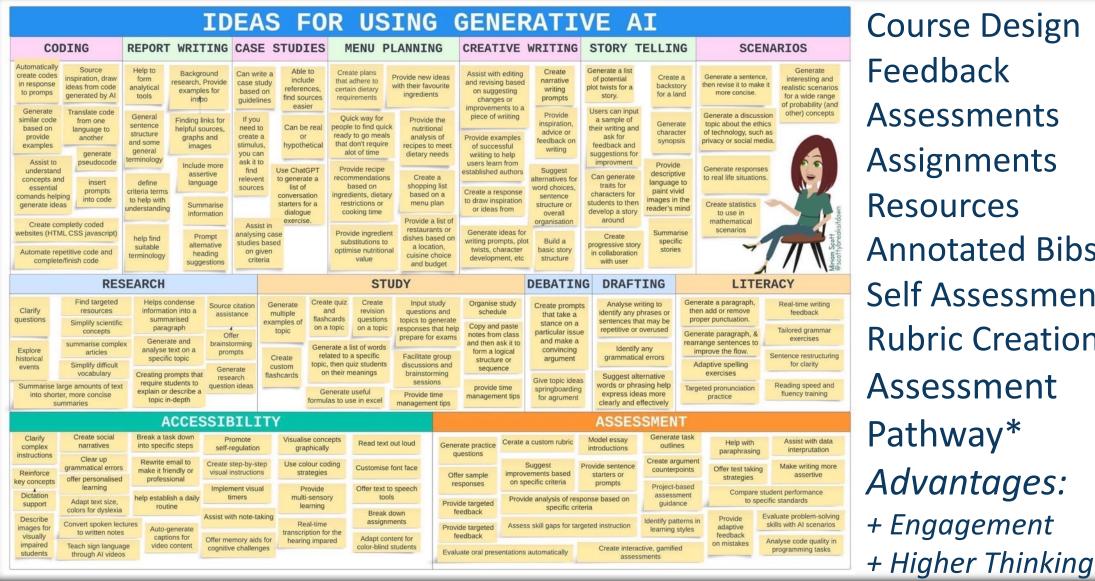
Today's presentation is to discuss the pros and cons of what is currently possible with AI tools.

In no way are we promoting the use of any or all these AI tools for use in your courses. As the curator, you make that decision!

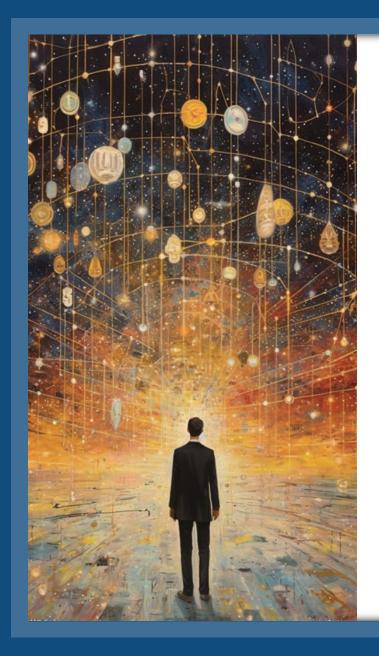
IDEAS FOR USING GENERATIVE AI

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COL	DING	REPORT	WRITING	CAS	E STU	DIES	MENU P	LANNIN	IG CI	REATIVE	WRITING	STORY T	ELLIN	G	SCE	NARIOS
Automatically create codes in response to promps	Source inspiration, draw ideas from code generated by AI	Help to form analytical tools	Background research, Provide examples for inspo	Can wi	on refer	ole to clude rences, sources asier		Provide new i with their favo ingredient	ourite an	ssist with editing d revising based on suggesting changes or	Create narrative writing prompts	Generate a list of potential plot twists for a story.	Create a backstor for a lan	ry th	Generate a sentenc hen revise it to make more concise.	
Generate similar code based on provide examples	Translate code from one language to another	General sentence structure and some general	Finding links for helpful sources, graphs and images	If you need to create stimulu you ca	o Can a s, hypo		Quick way for people to find quick ready to go meals that don't require alot of time	analysis recipes to	the nal s of Promeet	provements to a piece of writing ovide examples of successful	Provide inspiration, advice or feedback on writing	Users can input a sample of their writing and ask for feedback and suggestions for	Generat characte synopsis	te d	Generate a discuss topic about the eth of technology, such rivacy or social me	other) concepts
Assist to understand concepts and essential	pseudocode insert prompts	define criteria terms	Include more assertive language	ask it find releve source	Use Ch to gene	erate a of	Provide recipe recommendations based on ingredients, dietary	Create shopping based o	esta e a g list	writing to help sers learn from ablished authors eate a response	Suggest alternatives for word choices,	improvment Can generate traits for characters for	Provide descriptive language t paint vivid	to to	Generate response o real life situation	
	mpletly coded	to help with understanding	Summarise information	Assi		s for a	restrictions or cooking time	Provide a	olan to	draw inspiration or ideas from	sentence structure or overall organisation	students to then develop a story around	images in the reader's mi	ind	Create statistics to use in mathematical scenarios	
Automate rep	L CSS javascript) petitive code and i/finish code	help find suitable terminology	Prompt alternative heading suggestions	analysii studies on g crit	based iven		Provide ingredient substitutions to optimise nutritiona value	dishes bas	sed on wrion, thoice	enerate ideas for iting prompts, plo wists, character levelopment, etc		Create progressive story in collaboration with user	Summaris specific stories		Scenarios	Airiam Scott
	RES	EARCH					STU	JDY			DEBATIN	G DRAFT	ING		LITE	RACY
Clarify questions	Find targeted resources Simplify scientific	Helps co informati summ	on into a ass	e citation istance	Generate multiple examples of	Create and flashca	d revision ards questions	Input str questions topics to ge	s and enerate	organise study schedule	Create prompt that take a stance on a	identify any phrases or sentences that may be		then a	ate a paragraph, add or remove er punctuation.	Real-time writing feedback
Explore	concepts summarise complex	Genera analyse	Generate and analyse text on a		topic		ate a list of words	prepare for	exams n	copy and paste otes from class nd then ask it to form a logical	particular issue and make a convincing	Identify any		Generate paragraph, & rearrange sentences to improve the flow.		Tailored grammar exercises Sentence restructuring
events	vents Simplify difficult vocabulary		specific topic Creating prompts that require students to		custom topic,		hen quiz students their meanings	Facilitate of discussion brainstorr session	ns and ming	structure or sequence	argument Give topic ideas	grammatical errors Suggest alternative words or phrasing help		Adaptive spelling exercises		for clarity
Summarise large amounts of text into shorter, more concise summaries		explain or topic in	describe a	on ideas			nerate useful s to use in excel	Provide tir managemen	me m	provide time anagement tips	springboarding for agrument	express idea clearly and ef	as more		ed pronunciation practice	Reading speed and fluency training
		A	CCESSI	BILI	TY							ASSES	SMENT	Γ		
Clarify complex instructions	Create social narratives				ote Visualise cor graphical		Pead text of	out loud	Generate p	ractice	a custom rubric	Model essay introductions	Generate task outlines		Help with paraphrasing	Assist with data interprutation
Reinforce key concepts	Clear up grammatical errors offer personalised				step-by-step Use colour c enstructions Use colour c entructions		Customise t	font face	Offer sa	mple improv	Suggest ements based ecific criteria	Provide sentence starters or prompts	Create argu	oints	Offer test taking strategies	Make writing more assertive
Dictation support	learning Adapt text size, colors for dyslexia	help establi	sh a daily	Implement visual timers		Provide ulti-sensory learning	1	S	Provide ta	rgeted Provid	de analysis of resp	oonse based on	Project-ba assessm guidanc	ssment Compare s		tudent performance ecific standards
Describe images for visually	Convert spoken lecti to written notes	Auto-g	enerate	vith note-ta	trans	Real-time cription for t		nents	Provide ta	rgeted Asses	s skill gaps for tar	geted instruction	Identify patterns in learning styles		Provide adaptive feedback	Evaluate problem-solving skills with AI scenarios
impaired students	Teach sign languag	je video	Oller	nemory aid ive challen		ring impare		Adapt content for color-blind students		oral presentations	automatically Create interactive, g		tive, gamified	on r		Analyse code quality in programming tasks

assessments



Course Design Feedback Assessments **Assignments** Resources **Annotated Bibs** Self Assessment **Rubric Creation** Assessment Pathway* Advantages: + Engagement



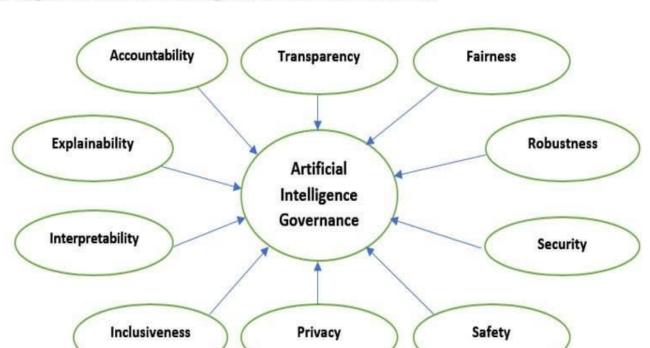
Share with Your Colleagues

How are you currently using AI tools to build QUALITY in your courses to promote significant learning?



Ethical Considerations

A Responsible Artificial Intelligence Governance Framework

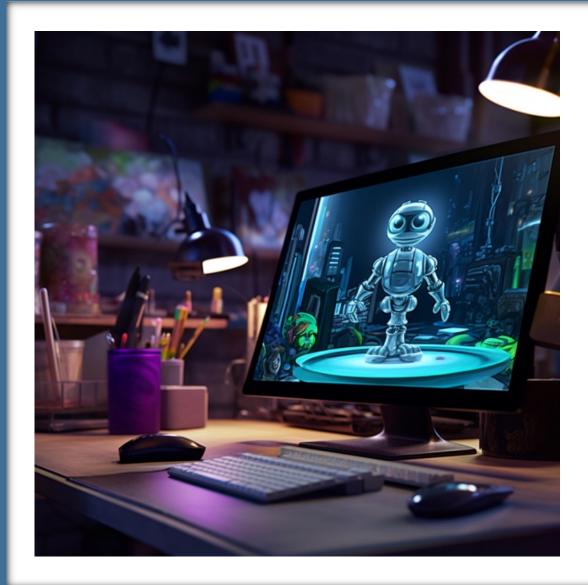


<u>Suggested Citation</u>: Camilleri, M.A. (2023). Artificial intelligence governance: Ethical considerations and implications for social responsibility, *Expert Systems*, https://doi.org/10.1111/exsy.13406

Designing the Future of Effective Teaching and Significant Learning

Lifelong

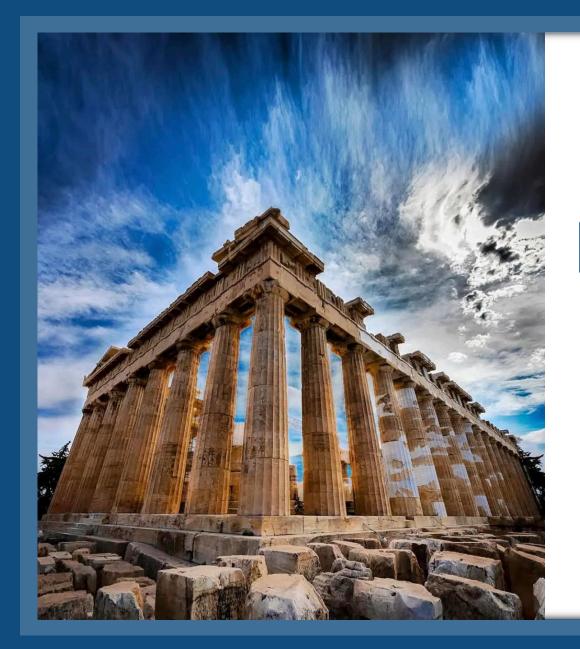
<u>Source</u>





ChatGPT in Course Design

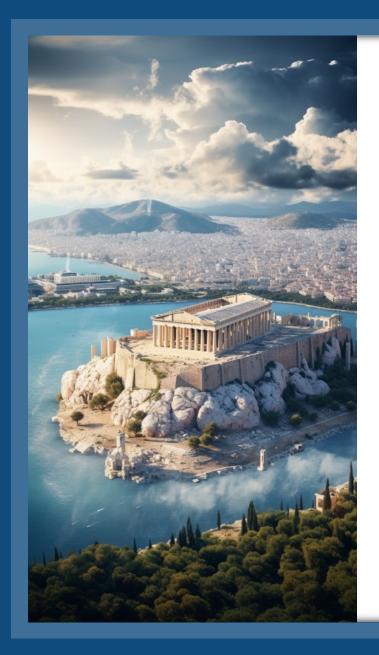
- Creating and Aligning Outcomes, Assessments, and Activities
- Developing Rubrics & Directions
- Discovering Resources in Print, Podcasts, Video, Media, OER
- Providing Teaching & Learning
 Strategies





History of Greece HIST 444

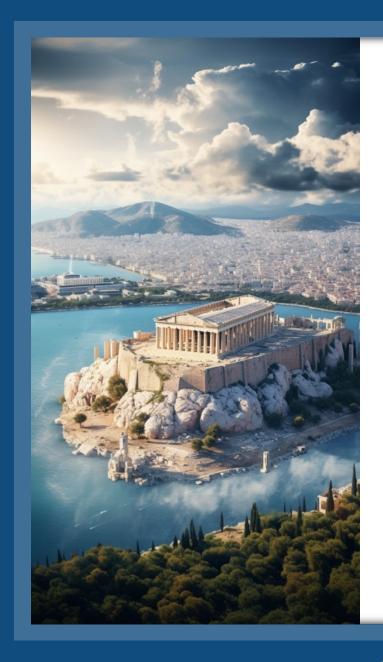




Prompt for the Application Outcomes



You are an instructional designer and are going to create an alignment of university course outcomes, assessments, and learning activities for History of Greece course at the 400 level. Start by creating 5 outcomes for the cognitive Application domain of the Taxonomy of Significant Learning where students will describe the kinds of activities and tasks learners will be able to perform based on the information they have acquired by choosing from the following verbs: Analyze, Assess, Calculate, Compute, Critique, Defend, Demonstrate, Design, Develop, Diagram, Distinguish, Illustrate, Infer, Justify, Manage, Modify, Organize, Outline, Prepare, Solve, Transfer, or Use.



ChatGPT Response for the Application Outcomes



Here are the 5 Application Outcomes for the History of Greece course at the 400 level:

- Analyze the political structures and systems of ancient Greece.
- Assess the impact of major historical events on the development of ancient Greek society.
- Demonstrate the ability to apply historical and cultural context to interpret primary sources from ancient Greece.
- Design and develop a research project exploring a specific aspect of ancient Greek history.
- Justify and defend personal perspectives on the significance and relevance of ancient Greek history in the modern world.





Next...

- Created Outcomes for Each of My Design Domains
- Created Assessments with Rubrics
- Activities with Rubrics and Directions
- Assessments and Activities Aligned with Outcomes
- Online Discussion Prompts with Rubrics,
- Annotated Bibliography to fit the Outcomes
- 3 Teaching Strategies
- 3 Learning Strategies for Students

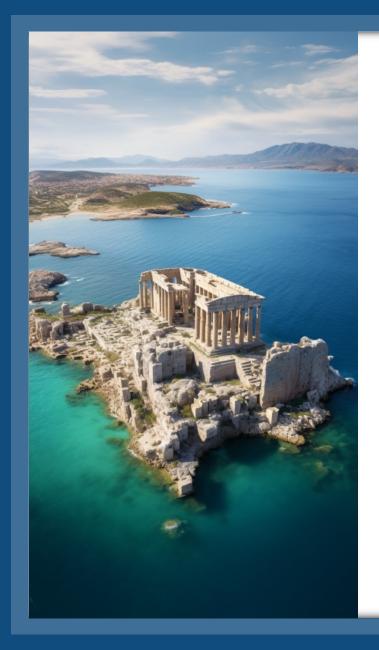




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Total Time.... 10 minutes for all of this!





Next...

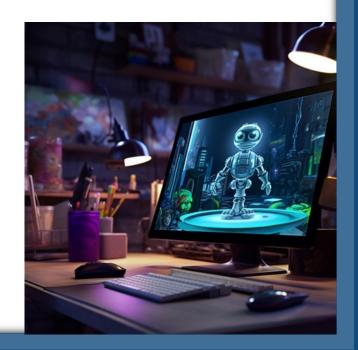
- Edited ChatGPT responses to fit my preferences and decided by prioritizing which outcomes, assessments, activities, etc. were the most appropriate for my course.
- Found a lot of it to be of decent quality (beyond my expectations). Rubrics needed the most work!
- Moved on to the next domain in the Taxonomy of Significant Learning.

This AI tool can do a lot more for you in your teaching and for students' learning.



Creating Examples

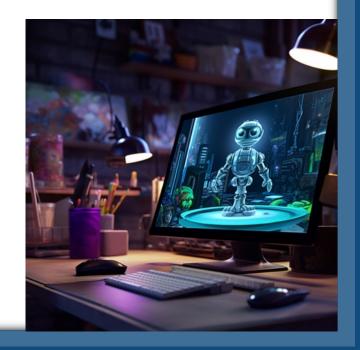
We have already discussed it's use in developing rubrics. Once you have edited the rubrics for assignments, have ChatGPT use that rubric to develop sample written responses. Let's say you wanted students to write a 5-page paper.



Tell ChatGPT the components you want in the paper such as an introduction, a body of ideas that are supported by citations from journal articles and experts, a conclusion, and a bibliography of sources and footnotes if applicable.

Tell it to use a **writing style** such as APA, MLA, Chicago, etc. Being very specific in your prompt will get you better quality responses.





Upload the rubric and then ask it to create an example of a 5-page assignment meeting the

- Excellent criterion
- Satisfactory criterion
- Needs Improvement criterion.

In minutes you will have three writing samples to share with your students.



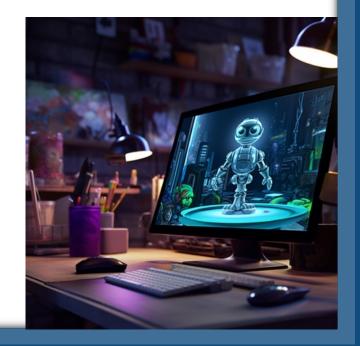


Beyond this, your choices for use are extensive.



Have your students:

- rate the three writing samples.
- correct the errors in the Needs Improvement paper, identifying the errors and offering suggestions of how to fix them to fit the Excellent criteria.
- work in teams to share ideas.



ChatGPT for Self-Assessment

ChatGPT type tools can provide students with feedback on their projects and papers. Students can

- Use the Editor Tool in Word to clean
- Upload your rubric
- Ask ChatGPT for feedback on the quality.
- Make corrections and submit to you.

Many more examples and prompts in the online course:

Al Tools for QUALITY Course Design



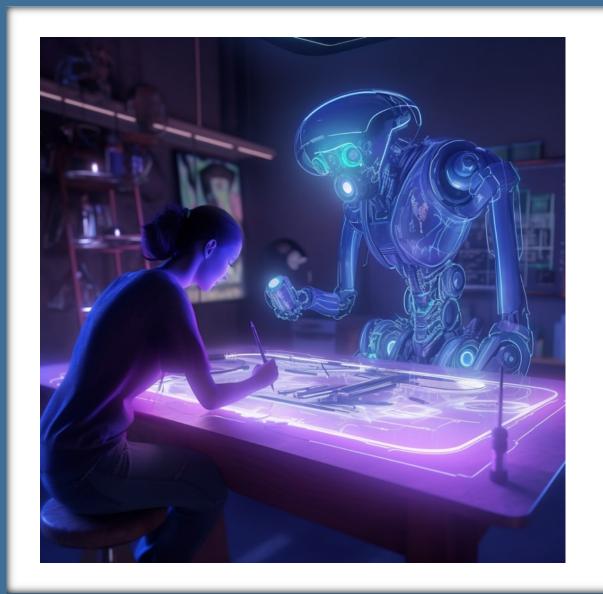






Share with Your Colleagues

- Do you have any questions about using ChatGPT in course design?
- Please share ways you are using ChatGPT in your courses.





MidJourney Bot

MidJourney is a program to develop graphics, logos, and pictures to enhance your course's visual content.

The advantages and best-practices it provides to enhance significant learning:



- Students can learn from a diversity of visual content that designers have created to better illustrate concepts.
- Students can learn how to create quality content for use in presentations and discussions which are usable skills for their professional careers.
- Designers can create comparison graphics, charts, graphs, logos for projects, predictive illustrations, etc.

The advantages and best-practices it provides to enhance significant learning:



- Designers can enter graphic information to create a visual way to display concepts with learners.
- Avatars from *Synthesia* can use video to explain the visual content created in *MidJourney*.
- Designers can use graphics to introduce units, concepts, campus assistance, etc.
- Products can be shared in opensource sites.

Example of uses to include in course content.





Create baseball-style trading cards for the Thinkers of Greece including Aristotle, Plato, Socrates and Pythagoras.

- Each student can choose one person from a list you have created in ChatGPT to avoid duplication.
- Students can use these to give to other students for excellent discussion posts and feedback on assignments.
- These are like badges to encourage student interaction and quality engagement.



The same type of cards could be created for Greek

- Inventors and Innovators,
- ancient Greek gods, or
- places to see in Greece.





You can create **badges** (Olympic Icons) in MidJourney to give to students for excellent work!









ChatGPT Prompt:

Socrates, Aristotle, and Plato discuss the importance of peace in developing civilization. Topics include:

- creating an economy,
- development of culture,
- the structure of government, and
- forming alliances with other nations.





Synthesia



Designing the Future of Effective Teaching and Significant Learning

Lifelong

Al Voiceover

Course content videos in about 30 minutes

Create Your Own Avatar?





Synthesia will let you for \$1000

A bit steep? Try Canva!
Canva uses your own photo.
Go to Apps in Canva and use the D-ID for creating your own avatar.

Want to see?





My Photo → My Avatar,
With My Voice!

CC can be added.

Canva

INNOVATION SYNERGY

Education & Business Design





Create Your Own Course Badges

- 100s of templates
- Similar to PowerPoint
- Individualize Badges to Fit Your Course!

Creating Presentations: Pictory





Imagine creating these types of video presentations to inspire learners as you introduce units and major concepts in your courses. Time to innovate!

Descriptions and step-by-step directions are in the course:

Al Tools for QUALITY Course

Design

Creating Presentations: KAPWING





KAPWING is a comprehensive online platform to enhance course content through a designed approach to streamline these processes: video editing, image manipulation, GIF creation, narration and captions.

Faculty and instructional





Creating Presentations: **KAPWING**







Remember the History of Greece course?

You can develop unit introductions using your text content, photos, and video or Kapwing's photos and video.

Creating Presentations: — KAPWING

Benefits of Using Kapwing's AI Features



- Efficiency: Al-driven tools like auto-subtitles and background removal save time and effort.
- Accessibility: Translating subtitles makes your content accessible to a wider, international audience.
- Flexibility: Create one presentation and use parts for others by trimming.
- **Branding:** Course (department/program) branding can standardize look and feel.

Creating Presentations: — KAPWING

Benefits of Using Kapwing's AI Features



- **Teamwork:** One intuitive process where anyone can create content, share feedback, and use brand assets in real time. This is great for faculty/instructional designers and students creating assignment presentations.
- **Professional Quality:** Al features ensure a high-quality finish, from seamless cuts to clear, engaging visuals.

Descriptions and step-by-step directions are in the course: *Al Tools for QUALITY Course Design*

Creating Presentations: Open Als Sora









Open Forum

Share with Your Colleagues

What the advantages and disadvantages of AI practices as it applies to your teaching and significant learning?

The Future of Learning is Here!

Get Your Badge!



Designing the Future of Effective Teaching and Significant Learning

Lifelong

Email Me

Subject: "Designing Future Learning"

Bonus Link

AI Will Shake Up Higher Ed.
Are Colleges Ready?

Zala Fashant Zala.Fashant@innsynergy.com

Presentation Resources

Thanks for participating!



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Keep Talking! Join the group @ Innovation Synergy



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The Future of Learning is Here – Subscribe Today!

Self-paced Online Courses:



Al Tools for QUALITY Course Design

Step by step directions for these tools

Online Course Design Institute

Facing the Future: Artificial
Intelligence in Higher Education



14 Online Educational Courses with Certificate is-courses.com/education-shop

IS-courses.com

Take a photo!



EDUCATION

- EFFECTIVE TEACHING
- COURSE DESIGN
- SIGNIFICANT LEARNING
- AI INTEGRATIONS

AND MORE



UNLIMITED ACCESS TO ALI