How Faculty Can Harness Generative AI for Enhanced Learning: Part 3 From Generic to Specific

Curtis J. Bonk, IST Professor Indiana University

cjbonk@iu.edu; http://curtbonk.com/







Poll #1. Warm-up question...

1.Did you attend Curt Bonk's "How Faculty Can Harness Generative AI for Enhanced Learning" Part #1 or Part #2?

a.Yes.

b.No.



2

Poll #2. Warm-up question...

2. Have you used a Generative AI tool or platform for any of your formal or informal learning on a daily basis?

a.Yes.

b.No.



Poll #3. Warm-up question...

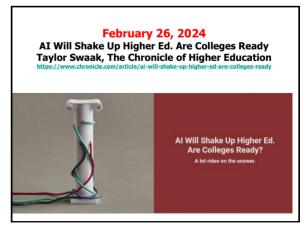
Have you used ChatGPT or other Generative AI tools in your innovative teaching in the past few months?

- a. No.
- b. Yes, one time.
- c. Yes, a few times.
- d. Yes, many times.
- e. Yes, every chance that I can get.



3





Li, Z., Wang, C., & Bonk, C. J. (in review). ChatGPT as a tool for teachers' self-directed professional development. Journal of Teacher Ed. Note: We used a mixed-method approach to collect and analyze 298 completed survey responses, five individuals semi-structured interviews, and documents (e.g., ChatGPT Chat history regarding SDPD usage).

Table 4. Distribution of types of elevational scivities that teacher engage is with ChatGPT.

What specific types of relevational scivities that teachers engage is with ChatGPT.

Getting inspiration for classroom pedagogian, class activities. 167 19.49% and lessus plans (e.g., learning materials, PowerPost stides)

Generating peacite questions or equited.

Generating peacite questions or equited.

Preventage in the complete of the com

Wang, C., Li, Z., & Bonk, C. J. (2024). Understanding self-directed learning in AI-assisted writing: A mixed methods study of postsecondary learners. Computers & Education:

Artificial Intelligence, 10, 1-10. https://doi.org/10.010/j.casal.2024.100247
384 survey responses and 10 semi-structured interviews with postsecondary writers.

Figure 1. Participants' frequency of using ChatGPT for writing

163

163

163

164

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1721

1722

1723

1724

1724

1725

1725

1726

1727

1727

1727

1728

1728

1728

1729

1729

1720

1720

1720

1720

1720

1720

1721

1721

1721

1722

1723

1724

1724

1725

1725

1726

1727

1727

1727

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

1728

8

10

9

August 2, 2024
Digital Education Council Global AI Student Survey 2024
The Digital Education Council
https://www.digitaleducation.com/Lorent/deput-education-council-aloial-lai-student-survey-2024

Topped Bouteries Council Student Survey 2021 Tearing AI Student Survey 2024

Topped Bouteries Council Student Survey 2021 Tearing AI Student Survey 2024

Topped Bouteries Council Student Survey 2021 Tearing AI Student Survey 2024

Topped Bouteries Council Student Survey 2021 Tearing AI Student Survey 2024

Topped Bouteries Council Survey AI Student Survey 2024

Topped Bouteries Coun

August 2, 2024

Digital Education Council Global AI Student Survey 2024
The Digital Education Council

Inter://www.digitaleducationcouncil.com/post/digital-education-council-global-al-student-survey-2024

The Digital Education Council

Inter://www.digitaleducationcouncil.com/post/digital-education-council-global-al-student-survey-2024

The Digital Education Council

The

August 1, 2024

Exploring AI: Students Share Their Awareness and Usage of Generative AI

Rachel Janzen, Clare Church, and Radhe Paleia

https://forum.academica.ca/forum/exploring-ai-students-speak-about-their-awareness-and-usage-of-chatgpt

Awareness: What Generative AI Tools Are Students-speak about-their awareness-and-usage-of-chatgpt

With?

We asked enuleuse about their facilitative with generative AI Tools Are Students-Familiar
With?

We asked enuleuse about their facilitative with generative AI tools facility legislary with the most famous tools ChatGPT.

We asked enuleuse about their facilitative with generative AI Tools Are Students Familiar

With?

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no. 1500

Figure 1 reas you have of ChatGPT 1020 in -889, 2023 no.

11 12

August 1, 2024 Exploring AI: Students Share Their Awareness and Usage of **Generative AI** Rachel Janzen, Clare Church, and Radhe Paleia

August 23, 2024

Crunch the Numbers—New Data on AI in Higher Ed

Kevin Hogan, Penn Foster Group, eCampus News

Key findings include:

14

- 82% of college students say they've used AI technologies, compared to 58% of high school students, and students are now near even with teachers in adoption (67% vs. 66%)
- Two-thirds of high school and college they use AI technology for education
- Students who use AI technology for school use it to do research (46%), to summarize or synthesize information (38%), and to generate study guides or materials (31%)

13

July 12, 2024

More college students say AI helps them earn better grades

Laura Ascione, eCampus News

- · A Pearson research survey of 800 nationally representative U.S. college students, conducted with Morning Consult, shows an increasing interest in using AI tools for study.
- Fifty-one percent of spring semester students said generative AI has helped them get better grades, a 4-percentage point increase from Fall '23.
- Fifty-six percent of spring semester students said generative AI has helped them be more efficient, a 7-percentage point increase
- Forty-four percent of students are seeking tools to walk them through problems.
- Nearly 60 percent of **students** are interested in trying new generative AI tools.

July 12, 2024 More college students say AI helps them earn better grades

Laura Ascione, eCampus News

Anthony Gonzalez, a student at Cerritos Community College who used Pearson's AI study tools in his General Chemistry class said, "I felt much more prepared for class, quizzes, and exams all around. Not to mention you could ask the AI study tool any question at any given time."



More college students say AI helps them earn better grades

dents say their academic achievement and efficiency have ed after using generative AI tools

16

15

November 25, 2024

Is Generative AI a General Purpose **Pedagogical Innovation?**

Michael S. Palmer, Inside Higher Ed

Recent research reported in a working paper offers promising evidence. In a randomized, controlled study of nearly 250 physics students, Gregory Kestin and colleagues compared learning gains and motivation between students learning in a traditional active learning classroom environment and those learning in partnership with an AI-powered tutor. The results were compelling: Students using AI tutors learned more than twice as much in less time than those in active learning classrooms. Furthermore, students using AI tutors reported higher engagement and motivation when solving difficult problems.

AI Tutoring Outperforms Active Learning, Gregory Kestin et al. https://doi.org/10.21203/rs.3.rs-4243877/v1



November 25, 2024

Transforming History Education Into a More Immersive, **Interactive Process of Inquiry and Discovery** Steven Mintz, Inside Higher Ed

- Historical simulations and role-playing: AI could use primary sources to create immersive experiences, where students virtually walk through events like the Lewis and Clark Expedition or debate the U.S. Constitution's ratification using a variety of firsthand documents.
- Cross-disciplinary connections: AI could link historical documents with related literature, art and social movements. For example, exploring the Harlem Renaissance might reveal connections to both historical and literary works.
- Concept maps and historical trends: AI could generate visual maps showing relationships between events, figures and themes, helping students grasp broader historical trends.

17 18



Transforming History Education Into a More Immersive, Interactive Process of Inquiry and Discovery Steven Mintz, Inside Higher Ed

- Text analysis and recurrent themes: AI could analyze historical documents, identifying recurring terms, phrases or rhetoric, revealing patterns in historical discourse.
- Real-time feedback and inquiry guidance: AI could offer immediate feedback on student interpretations of primary sources, drawing attention to areas for further inquiry or missed connections.
- Interactive engagement with historical figures: Students could virtually speak with figures like Susan B. Anthony, receiving AI-generated responses based on historical texts and speeches, creating a more dynamic interaction with history.

19

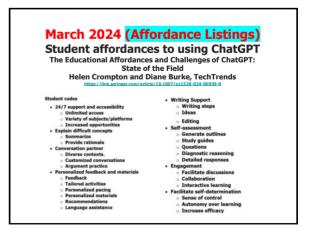




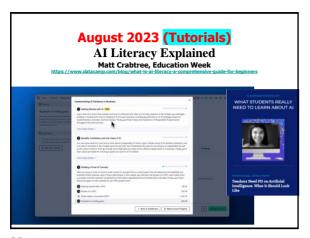


21 22

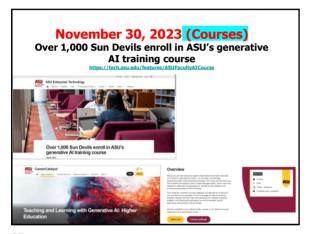


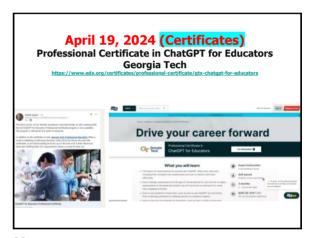


23 24









27 28

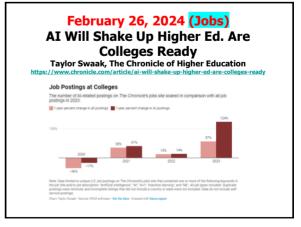
June 20, 2024 (Jobs)

Higher Education Has Not Been Forgotten by Generative AI

Ray Schroeder, Inside Higher Education

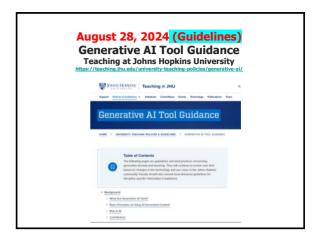
https://www.nytimes.com/2024/06/137/health/surgeon-general-social-media-warning-label.html

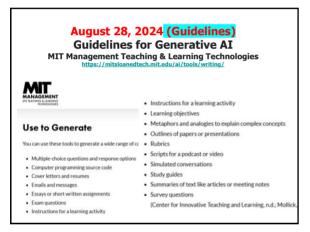
Just in case we need to remind ourselves of why those of us in higher education must begin to integrate GenAI into our teaching and learning, data is now emerging that indicates that students may be more likely to be considered for higher paying positions if they include experience with AI in their employment applications. A study by Nick Drydakis in the Oxford Economic Papers, recently reported: It was found that university graduates with AI capital, obtained through an AI business module, experienced more invitations for job interviews than graduates without AI capital...for jobs that offered higher wages than those without AI capital.



29 30







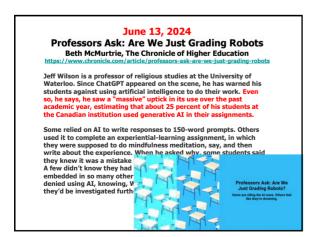
August 28, 2024 (Guidelines)
Teaching with Generative AI
Dartmouth Center for the Advancement of Learning
United Advancement of Learning with Gen AI
1. Try it out. Prompt it. Test it. And evaluate the output.
2. Emphasize process over product.
3. Foster meta-cognition; e.g., explain one's thinking.
4. Carefully analyze AT-generated content.
5. Create options and dual versions of assignments.
6. Reimagine writing with your students—a process of prompting, editing, and revising. Reflect on this.

Dartmouth Center for the Advancement of Learning

Dartmouth Center for the Advancement of Learning

Teaching With Generative Artificial Intelligence

33



June 13, 2024

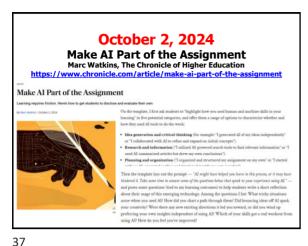
Professors Ask: Are We Just Grading Robots
Beth McMurtrie, The Chronicle of Higher Education
https://www.chronicle.com/article/professors-ask-are-we-just-grading-robots

"I've been teaching at this university for 17 years and suddenly this comes along to devalue everything I've done to become a caring, competent instructor, and the students are creating make-work for me," he says, describing the shift as "devastating." "I'm grading fake papers instead of playing with my own kids."

Professors Ask: Are We Just Grading Robots?

But May of desaule.

35 36



July 5, 2024 (Guidelines)

Teaching: Getting in sync with students about AI
Beth McMurtie, The Chronicle of Higher Education
Case: Professor Ken McKay, Management Sciences,
University of Waterloo

https://www.chronicle.com/newsletter/teaching/2024-07-05

- Use open book and open note assignments/assessments.
- Students write during first class establishes baseline.
- Talk to students about how Gen AI tools work.
- · Have students create prompts and discuss results.
- Use different Gen AI tools and prompts before class.
- Students must use lecture material and class discussions in reflection papers.
- Avoid multiple choice, fill-in-the-blank tests, and brief response or one right answer questions on tests.
- · Avoid use publisher test questions.



1

April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024)
Addressing Cheating with Gen AI

Jose Antonio Bowen and C. Edward Watson https://www.press.jhu.edu/books/title/53869/teaching-ai

- Use low stakes assignments (more and smaller assessments).
- In-class active learning and peer learning techniques.
- · Have reasonable workloads.
- · Have flexible deadlines.

39

- · Promote and model academic integrity.
- Develop better assignments and assessments.
- Increase transparency, relevance, belonging, and motivation.



40

38



February 20, 2024
Learning is More Visual
Sora: Finally, An AI Video Generator
Video (3:34): https://youtu.be/lbx3xW1ua-E

February 15, 2024
Learning is More Visual
AI Generated Video Just Changed Forever
Video (12:01): https://youtu.be/NXpdyAWLDas

41 42









45 46



August 31, 2024
Brave People Option:
Activity #1. AI Case Analysis
https://curtbonk.com/Instructional-Strats-R546-2024.htm

• Brave People Option: Case Situations or
Problems

Write 3 case situations or vignettes related to your current or
most recent job setting (each will be about one page long
single-spaced). In these cases, you will point out the situation or
problem in 1-2 paragraphs as well as the key questions or
issues.

• Al Option: Adventurous students might ask ChatGPT to
solve 3 cases situations that they write up or read about. If you
do this, please reflect on the solution(s) that ChatGPT or some
other platform provided as well as the course related concepts in
the case or the solution. And you could ask two or three
different platforms (e.g., ChatGPT, Claude, Microsoft Copilot,
Gemini, etc.) and compare them.

47 48

August 31, 2024 **Brave People Option:** Activity #2. Research Dig

Brave People Option: Research Dig. You are to canvass the research literature on a topic related to this class. Perhaps this will lead to a dissertation, master's theses, or Pernaps this will lead to a dissertation, master's theses, or research project. You must find at least 15 articles on a topic and read at least half of them. In your paper, you should describe how you found your articles and essentially describe the state of the research? What are the general findings? Where are the open issues, questions, or gaps on this topic and how might you research this area? You should turn in a 2-4 page single-spaced



 AI Option: Adventurous students might ask ChatGPT or ChatPDF to also generate a summary of those 15 articles and compare the two summaries as well as a set of discussion questions on each article in the review.

August 31, 2024 **Brave People Option:** Activity #3. Application Paper

Brave People Option: Job Application

Paper. Write a 3 page single-spaced paper where you evaluate one or more perspectives, strategies, or approaches from the perspective of an educational setting, issue, or problem of perspective of all culculational setting issue, a protection importance to you (preferably your current or past job). For example, the paper might be titled, "How generative AI might augment teacher pedagogical skills and experimentations. Of course, it should have a descriptive title, some kind of thesis statement, and a conclusion.

• AI Option: Adventurous students might ask ChatGPT or



Claude, Microsoft Copilot, Gemini, etc. to also generate a job application paper and compare and contrast the two papers.

49 50

August 31, 2024 **Brave People Option:** Activity #4. Super Summary

https://curtbonk.com/Instructional-Strats-R546-2024.htm

Brave People Option: Super Summary

Search. In the Super Summary Search, you might conduct a library search on a topic that you find important (this must include at least 10 articles (at least half of these must be research-based articles). In addition, I would like for you to write a one paragraph summary for about 3-5 of these articles, wherein you summarize the article and discuss its importance to the field and to yourself and your colleagues.



AI Option: Adventurous students might ask ChatGPT or ChatPDF to also generate a super summary and compare and contrast the two papers. The article summaries might be made

available as a study guide.

51

February 10, 2023 80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D. Activity #6. Think, Pair, Share

Students reflect of a topic and share with a partner. Then they could query ChatGPT and discuss their findings before sharing with the class.



February 10, 2023 80 Ways to Use ChatGPT in the Classroom

Stan Skrabut, Ed.D. **Activity #7. Predict ChatGPT Response**

Integrate ChatGPT into a class activity. Before pressing return on a question posed to ChatGPT, have students predict what the response or answer will be and then compare the student responses to what they predicted.



53 54







52



Activity #5. Expert or Scholar Review and **Interactive Dialogue**

https://curtbonk.com/Instructional-Strats-R546-2024.htm

Brave People Option: Expert or Scholar

Review. Sometimes an instructional approach or thinking program is synonymous with the inventor or creator of that program. In this option, I want you to review the work of a scholar in this field. For instance, you might read about the person who invented a popular concept, technique, or theory. You might send that person a letter asking for additional information. It is the exploratory, inquisitive nature of the task that is prized here, not what you actually do. AI Option: Adventurous students might ask ChatGPT or Claude, Microsoft Copilot, Gemini, etc. to generate a fictional dialogue between two or three such experts. Or ChatGPT could create a fictional expert that could respond to student questions



February 10, 2023 80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #8. List Generator Discussions

Have ChatGPT or any other generative AI tool generate a list (e.g., ice breakers, student paired interview questions, book or article recommendations, course guidelines or objectives, course objectives, etc.) and then engage students in small group and then whole class discussions.



February 10, 2023

80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #9. Writing Feedback and **Assistance**

ChatGPT or any other generative AI tool might assist with student papers and essays to identify areas of potential improvement. Feedback might be offered on the grammar, wording, content, overall organization or ideas. Teams might discuss and revise their papers before submission. End with entire group conversation.



55

56

February 10, 2023

80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #10. Language Discussion Partners

Have students engage ChatGPT or any other generative AI tool to help discuss new topics and concepts as well as process class activities or lectures at the start of end of an activity or class. Then, have students critique the output at the end of the conversation.



February 10, 2023

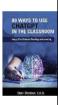
80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #11. Ice Breakers

ChatGPT or any other generative AI tool could be used to generate ice breakers for the first class or when starting team assignments.







57

58

February 10, 2023

80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #12. Language Conversation Partners

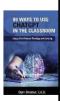
Generative AI might also translate articles and blocks of text into the target language. Then, have students critique the output at the end of the conversation such as noting grammatical errors. Next have students work in teams to improve the drafts through rewriting and discussion.



February 10, 2023 80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #13. Grade ChatGPT Response

Use ChatGPT to create a document like an essay, report, plan, etc., and have students grade the results using a rubric or a checklist.



59 60

February 10, 2023 80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #14. Q&A Sessions

/dp/B0BVC8MXJV

Hold a Question and Answer session where the instructor answers student questions and then ChatGPT answers them. Next, the instructor would have a chance to amend his/her answer or the students would discuss discrepancies in the answers provided and ask a followup question.



February 10, 2023 80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #15. Debate Assistance

Students could have ChatGPT to generate arguments and counterarguments before or during a debate situation on a given topic. In addition, an opposing group could ask ChatGPT for a rebuttal.



61

62

February 10, 2023

80 Ways to Use ChatGPT in the Classroom Stan Skrabut, Ed.D.

Activity #16. Create Blog Posts

Assume the instructor has asked the students to post their weekly article reflections in a blog. ChatGPT or any other generative AI tool could generate a reflective blog post each week as well. Students or teams of students could compare their blog post reflections and ChatGPT. Final reflection papers could be written on this.



December 3, 2023

ChatGPT for Teachers: AI in the Classroom: Harnessing the Power of ChatGPT for Effective Teachings Pacifico Zanzara (K-12 or higher ed)

Activity #17. Interactive Lessons

ChatGPT or any other generative AI tool could be used to generate interactive and engaging content including science experiments, simulations, historical scenarios, controversial cases situations, creative writing prompts, etc.



63

64

December 3, 2023

ChatGPT for Teachers: AI in the Classroom: Harnessing the Power of ChatGPT for Effective Teachings Pacifico Zanzara (K-12 or higher ed) Activity #18. Problem Solving Scenarios

Use ChatGPT or any other generative AI tool to create real-world scenarios that require problem solving and decision making. Teams of students could address different scenarios or engage in competitions related to a few key scenarios.



December 3, 2023

ChatGPT for Teachers: AI in the Classroom: Harnessing the Power of ChatGPT for Effective Teachings Pacifico Zanzara (K-12 or higher ed) Activity #19. Analytical Writing Prompts

Have students use ChatGPT or any other generative AI tool to engage in analytical writing and critical thinking. Use Gen AI to help interpret information, develop arguments, provide supporting evidence and justify their reasoning, explore the credibility of information sources, etc.



December 3, 2023

ChatGPT for Teachers: AI in the Classroom: Harnessing the Power of ChatGPT for Effective Teachings Pacifico Zanzara (K-12 or higher ed) Activity #20. Gamified Learning

Gamify course activities by having ChatGPT assist in turning the learning into an engaging game, fun trivia quiz, treasure hunt, or some type of competitive problem-solving challenge.



April 4, 2024

Teaching with AI:

A Practical Guide to a New Era of Human Learning (2024) Jose Antonio Bowen and C. Edward Watson Marybeth Gasman, Forbes



Just as the internet changed "our relationship with knowledge, AI is going to change our relationship with thinking."

67

68

April 4, 2024
Teaching with AI: A Practical Guide to a New Era of Human Learning (2024) Activity #21. Blogging and Journaling
Jose Antonio Bowen and C. Edward Watson

Record weekly course reflections in a blog or a journal. Then have students get feedback from both a peer and ChatGPT. Have students write one or more reflections on the difference on feedback offered.



April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024)

Activity #22. Summary Comparisons
Jose Antonio Bowen and C. Edward Watson
https://www.press.jhu.edu/books/title/53869/teaching-

Ask teams of 3 students to use different AI tools to make summaries of one or more readings. Have them meet FTF or in a synchronous setting and defend their AI tool summary as the best summary. Next have them attempt to improve or refine one of the summaries, pool the respective summaries into a list of key points, or create a new best of summary. Perhaps pool all the team summaries across all the articles.



69

70

April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024) Activity #23. Human vs. AI Jose Antonio Bowen and C. Edward Watson tps://www.press.jhu.edu/books/title/53869/teaching-ai

Ask students to write a paragraph, article abstract, short paper, poem, lecture summary of key points, etc. both with and without AI. Next share the artifact with a partner. Each person attempts to identify the human and AI elements. Finally, they discuss how either draft document could be improved.

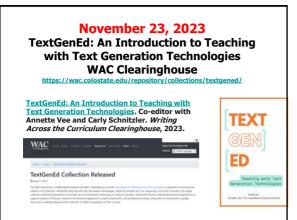


April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024) Activity #24. Supporting Mastery Jose Antonio Bowen and C. Edward Watson tps://www.press.jhu.edu/books/title/53869/teaching

Just imagine you could give AI specific information you want students to learn in your course. For instance, have students submit lab reports, business plans, stories, computer code, etc. and ask ChatGPT or another AI tool to identify problems, loopholes, and inconsistencies. Student fixes the problems and resubmits the artifact until no further problems are detected. Students must turn in interactions with AI with their assignments.





August 28, 2024

Creative Explorations, WAC Clearinghouse Activity #25. Professional Writing for Healthcare Heid McKee, Miami University

https://www.colostate.edu/repositeur/collections/lectenel/professional-writing/professional-writing-for-healthcare/

Original Assignment Context: mid-level undergraduate professional writing for healthcare course

In this project, via a series of scaffolded assignments, students selected and read medical journal articles and then drafted and revised research summaries for lay audiences, exploring, analyzing, and integrating the use of At writing systems (e.g., ChatGPT, QuillBot Summarizer, etc.)

throughout the process. This assignment is adaptable to a variety of undergraduate and graduate courses.

'You will first read and write (on your own, no Al) a summary (350-550 words) of the article in a press release or blog/newsletter format for a lay audience that you identify (e.g., prepanent women reading Pregnancy magazine; parents who subscribe to blog about asthma). We will have a per respond on that draft in class.

'Then you will explore and experiment with various Al systems (explained in assignments below), analyzing your own and Al's writing, Working with Al assignments below), analyzing you rown and Al's writing, Working with Al assignments below), analyzing you rown and Al's writing. Working with Al assignments below analyzing you rown and Al's writing. Working with Al assignments below), analyzing you rown and Al's writing. Working with Al assignments below analyzing you rown and Al's writing. Working with Al assignments below analyzing you rown and Al's writing. Working with Al assignments below analyzing you rown and Al's writing. Working with Al assignments below) analyzing you rown and Al's writing. Working with Al assignments below analyzing you rown and Al's writing. Working with Al assignments below and analyzing you rown and Al's writing.

74

73



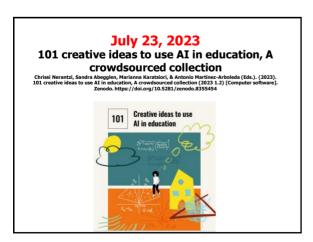
August 28, 2024

Rhetorical Engagements, WAC Clearinghouse
Activity #27. Writing Against the Machine:
Debating with ChatGPT
Justin Lewis and Ted Wayland, Olympic College
https://wac.coloatate.adu/repatitory/collectons/testgened/ethical-considerations/al-in-first-year-writing-courses/

Original Assignment Context: First-year writing course.

This assignment challenges students to use LLMs to map the counterraignments to their main claims through a process of counterclaiming. By writing prompts that position the AI as argumentative adversary, students can refine, extend and evolve their thesis over the course of the research, drafting and revision processes. This lesson is focused on 100-level composition courses but could be adopted to any undergraduate or graduate course focused on argument and claim making.

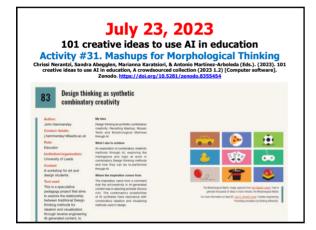
75 76



















September 5, 2024 Activity #36. Can GenAI Serve as Effective Teaching Tool for **Art Education** news/can-genai-serve-effective-teacning-co...
DOI: 10.4236/ce.2024.154037 https://www.scir The two prompts they used were "Impressionist painting of a purple flower arrangement," and "surrealist painting of a purple flower arrangement," These prompts and associated visualizations illustrate how the DALL-E 2 platform could be used by students to conduct a comparative analysis of artistic imagery using different styles of art as generated by DALL-E 2," Pavilik said. "Students could critically assess and discuss how well DALL-E 2 conforms to authentic styles of different styles of painting in the art it generates." (i.e., experience-based approach) Figure 2. DALL-F 2 Generated Art Impressionist Image 2 Figure 1. DALL-E 2 Generated Art Impressionist Image 1.



November 16, 2023 AI Pedagogy Project: Harvard's metaLAB **Introduces AI Pedagogy Project**

86

Harvard University

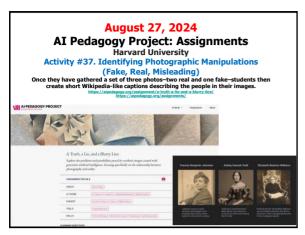
- · Led by Sarah Newman, Director of Art & Education at metaLAB, and developed with a primarily student team, the project offers:
- A searchable collection of educator-designed assignments for integrating AI into syllabi, and doing so responsibly and critically.
 Understandable AI concept descriptions designed to outline essential
- concepts and skills in a streamlined guide.
- Recommendations for educators on how to begin their AI journey in the classroom.
- An interactive tutorial on using large language models.
- · A resource list for further AI exploration, including related projects.

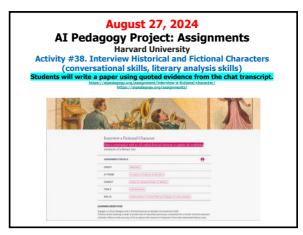
87 88

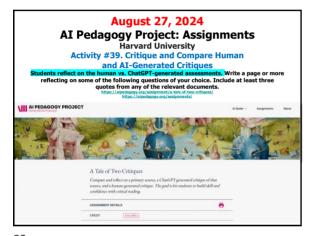


August 27, 2024 **AI Pedagogy Project: Assignments** Harvard University tive AI and Stasis Theory What's Your P(doom)? DuPont Analysis of Coca-Cola Allitoracy Education Ethics Medicine

90 89

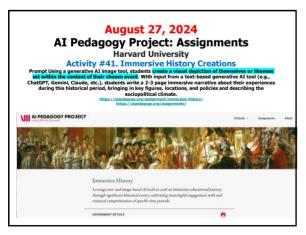








93





95 96

August 27, 2024

Activity #43. AI and the Case for Project-Based Teaching

Teaching
Chat Raymond, The Chronicle of Higher Education
http://www.chronicle.com/sricke/lai-and-the-case-for-project-based-outseld-based-asseld-project-based-outseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-asseld-based-a

I first offer opportunities for students to experiment on unstructured problems that have no single correct answer. For example, in a comparative-politics course, I might ask students to assume the role of political-risk consultants and, within 20 minutes, identify which of four African states is the most suitable location for a German company's new manufacturing plant. Students must justify their reasoning and through metacognition reflect on what they learned about problem solving as part of the exercise.



97

98

Activity #45. AI Video Generation (Synthesia) AI in Education Tutorial (claudio Pinto) Final Projects R546 Fall of 2024 https://share.synthesia.io/4553/421-90a3-4189-855-86556763201 (Synthesia) #1 AI video platform. Create professional looking videos in 140+ languages. Pick a template, choose between 230+ diverse avatars, and type your text. Synthesia is a synthetic media generation company that develops software used to create AI generated video content. It is based in London, England.

99 100



August 27, 2024

AI and the Case for Project-Based Teaching

Activity #44. PBL Designing an Intervention or New Initiative Chat Raymond, The Chronicle of Higher Education

Professors can use problem-oriented projects regardless of

Similarly, students in a psychology course could develop an

intervention that deals with a specific mental-health issue at their college, and pitch the idea to campus administrators. To

design a realistic intervention, they would need to construct

testable hypotheses that respect ethical and legal constraints, identify how to marshal resources, analyze data collected from preliminary surveys, and create a plan for assessing the

academic discipline. For example:

proposal's effectiveness.

Poll #4. Closing questions...

4. How many ideas did you get from this session for using ChatGPT or other Generative AI tools in your teaching, training, or tutoring?

a. None

b. 1 or 2

c. 3 to 5

d. 6 to 10 e. More than 10



Generate Podcast from Slides (NotebookLM (AI Creator)
How Faculty Can Harness Generative AI for Enhanced Learning
https://notebooklm.google/

NotebookLM

Generative AI is right fallutation Prolegogical Applications

Note of the second control of

101 102

Poll #5. Closing questions...

5. How many ideas did you get from this session for using ChatGPT or other Generative AI tools in your formal and informal learning?

- a. None
- b. 1 or 2
- c. 3 to 5
- d. 6 to 10 e. More than 10



Poll #6: Will you attend Curt Bonk's How Faculty Can Harness Generative AI for Enhanced Learning Part 4 Recap on Tuesday March 4 at 10 am Eastern?

a. Yes

104

b. No

c. Ah...Maybe



103

Closing questions...?



