



Ten Takeaways

Teaching with AI



A PRACTICAL GUIDE TO A
NEW ERA OF HUMAN LEARNING

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MEET THE INSTRUCTIONAL DESIGNERS



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SESSION RESOURCES

- ❑ Slide deck will be shared
- ❑ Check out our [CITL website](#)
- ❑ Every Tuesday the CITL offers [workshops](#)
- ❑ Book a [consultation](#) with your instructional designer!

Summer Series



6/4: Kick-Off

- Book Pickup

6/11: Chapters 1 & 2:

- AI Basics
- A New Era of Work

6/18: Chapter 3:

- AI Literacy

6/25: Chapter 4: (End of Part I)

- Reimagining Creativity

7/2: Chapter 5:

- AI-Assisted Faculty

7/9: Chapters 6 & 7

- Cheating and Detection
- Policies

7/16: Chapter 8 (End of Part II)

- Grading and (Re-)Defining Quality

7/23: Chapters 9 & 10

- Feedback and Roleplaying with AI
- Designing Assignments and Assessments for Human Effort

7/30: Chapter 11

- Writing and AI

8/6: Chapter 12: (End of Part III)

- Assignments and Assessments

A blue ribbon graphic with the text "TOP 10" in white. The ribbon is centered and has a slight 3D effect with a darker blue shadow on the bottom edge.

TOP 10

LET'S BEGIN! |





100

AI MAINFESTS ITSELF IN DIFFERENT
WAYS. |

NAVIGATING AI CHATBOTS: COMPARATIVE GUIDE FROM AI FOR EDUCATION

Chatbot Cheatsheet

AI for Education

	 ChatGPT	 Claude	 Google Gemini	 Microsoft Copilot
Key Features	<ul style="list-style-type: none"> Text generation File attachment (very limited in free) Image generation (paid) GPTs (access in free, build in paid) 	<ul style="list-style-type: none"> Text generation File attachment (free) Process visual inputs Focus on ethics and safety 	<ul style="list-style-type: none"> Multimodal inputs (text, images, and audio) Image generation (free) Data analysis Internet access 	<ul style="list-style-type: none"> Multimodal inputs (text, images, and audio) Image generation (free) Data analysis Internet access
Best for...	<ul style="list-style-type: none"> Basic writing tasks Language translations Writing code 	<ul style="list-style-type: none"> Working with files Creating interactive elements Sophisticated writing tasks 	<ul style="list-style-type: none"> Complex reasoning tasks Working with Google tools (Gmail, Docs, YouTube, etc.) 	<ul style="list-style-type: none"> Working with Microsoft suite Data analysis with Excel
Limitations	<ul style="list-style-type: none"> Generic writing style Free version has limited functionality No internet access in free version 	<ul style="list-style-type: none"> Usage limitations (30 messages/day on free plan) No image generation No internet access 	Limited image generation (no people)	No document uploads on free version
Cost	Free plan or \$20/month	Free plan or \$20/month	Free plan or \$19.99/month	Free plan or \$20/month



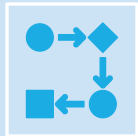
AI PRODUCES “C”-LEVEL WORK.



OUR NEW STANDARD IS “A”-LEVEL WORK



Employers are looking for graduates who can go beyond basic answers, implying a need for higher academic standards.



There is an importance in process over product now, encouraging a shift in how assignments are completed and assessed.



High standards are motivating and will be necessary for future employment. Students will do better when they know where to aim—establishing a clear target.

PAUSE AND PONDER



EDUCATORS COULD NOW GIVE ALL OF THEIR ASSIGNMENTS TO AI AND PEG THAT WORK TO A C GRADE.



WHAT DO WE NEED TO DO TO DISCERN QUALITY, MOTIVATE, AND GRADE IN THIS NEW ERA OF LEARNING?



In the AI era we will need to be much more explicit about requiring students to explain their thinking, research methods, and writing process; students should be analyzing and critiquing AI responses.

Emphasis on student processes, p. 228





AI HALLUCINATES.



HALLUCINATIONS & AI



Because AI is generative, it's a perfect tool for **creativity**. It puts ideas and words together that humans might never have done before.



On the flip side, these hallucinations allow the LLM to provide new and different answers to the same prompts, causing **unpredictability** and lack of **reliability**.



This is why we must be in the iterative process as the human and the content expert providing AI **meaningful feedback** to generate a desired output.



**AT TNTECH, FACULTY AND STAFF ARE
ON A SPECTRUM OF AI USAGE.**



**Open Use
Guidelines**

**Moderate Use
Guidelines**

**Closed AI
Guidelines**



**STUDENTS ARE ALSO ALL OVER THE
AI SPECTRUM.** |



SOME FACTS & FIGURES

15%

of college students
reported paying
someone to do an
assignment

22%

of college students have
used AI for schoolwork

49%

of college students
reported using AI tools
daily, weekly,
or monthly in fall 2023



TALK WITH STUDENTS ABOUT AI

- Make sure to discuss academic integrity
- Go over the university's policy, as well as your class policy, and explain the why behind it. Students will buy in more if you explain the reasons they can/can't use AI.
- Normalize asking for help with assignments from tutors/centers/faculty/GAs.
- Discuss how AI is being used in the professions
- "What faculty call cheating, business calls progress" pg. 132



AI IS AN ASSISTANT.





AI is a new eager assistant capable of finding information, creating visualizations, writing drafts, offering feedback, and analyzing data. It will alter your workflow and allow you to do other things.



SOME STATISTICS ABOUT AI

100%

Of jobs have at least one task that AI can do better today.

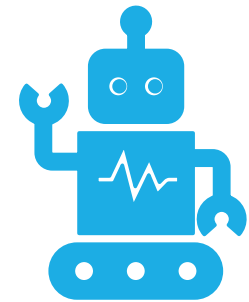
80%

Of U.S. workers could have 10% of tasks affected by AI.

19%

Of workers may see at least 50% of tasks affected by AI.

An assistant that completed lower-level, time consuming tasks could free you up to do more important and challenging things that AI, currently, does not do well. -p. 82



LEAVE THE COMPLEX TASKS TO
US



4

AI IS A COLLABORATOR.

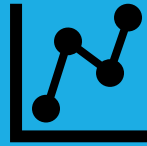


THE TEACHER-FRIEND ACROSS THE HALL

Instructor collaborations with AI



THE TEACHER- FRIEND ACROSS THE HALL



"Suppose you want to know which content is confusing or which activities students find most useful in your class? You could feed an AI the results of an exam, real-time questions, or twenty years of student responses from all sections and teachers and ask any number of questions." -p. 89

AI-ASSISTED COURSE DESIGN



Upload a syllabus and ask for improvements



Check for alignment of learning goals and assessments



Ask for retrieval practice options



Design a precourse survey- then have AI analyze the data and make specific suggestions



Suggest ways to gamify course (or make it more engaging)

HELP DESIGNING RUBRICS

Criteria	Excellent 5 points	Good 3 points	Fair 1 point	Poor 0 points	Criterion Score
Professional format and appearance.	<ul style="list-style-type: none"> • Format: The cover letter follows a highly professional format, with consistent and appropriate use of fonts, and spacing. • Appearance: The cover letter has an impeccable appearance, looking clean, polished, and easy to read. • Visual Appeal: The cover letter is visually appealing, with effective use of white space and no clutter. 	<ul style="list-style-type: none"> • Format: The cover letter follows a professional format, with mostly consistent and appropriate use of fonts, and spacing. • Appearance: The cover letter has a good appearance, looking clean and easy to read with minor areas for improvement. • Visual Appeal: The cover letter is visually appealing, though it may have minor issues with white space or slight clutter. 	<ul style="list-style-type: none"> • Format: The cover letter follows a somewhat professional format, but has noticeable inconsistencies in fonts, or spacing. • Appearance: The cover letter has an average appearance, looking somewhat clean but with several areas that need improvement. • Visual Appeal: The cover letter is somewhat visually appealing, but has issues with white space, clutter, or layout that detract from its professional appearance. 	<ul style="list-style-type: none"> • Format: The cover letter does not follow a professional format, with inconsistent use of fonts, and spacing. • Appearance: The cover letter has a poor appearance, looking cluttered, unpolished, or difficult to read. • Visual Appeal: The cover letter lacks visual appeal, with significant issues related to white space, clutter, or layout. 	/ 5

AI can specify and explain criteria for “excellent,” “good,” “fair,” and “poor.”

However, check its math 😊

Grading Advantages

- Efficiency and Time-Saving
- Consistency and Objectivity in Grading
- Personalized Feedback
- Data-Driven Insights

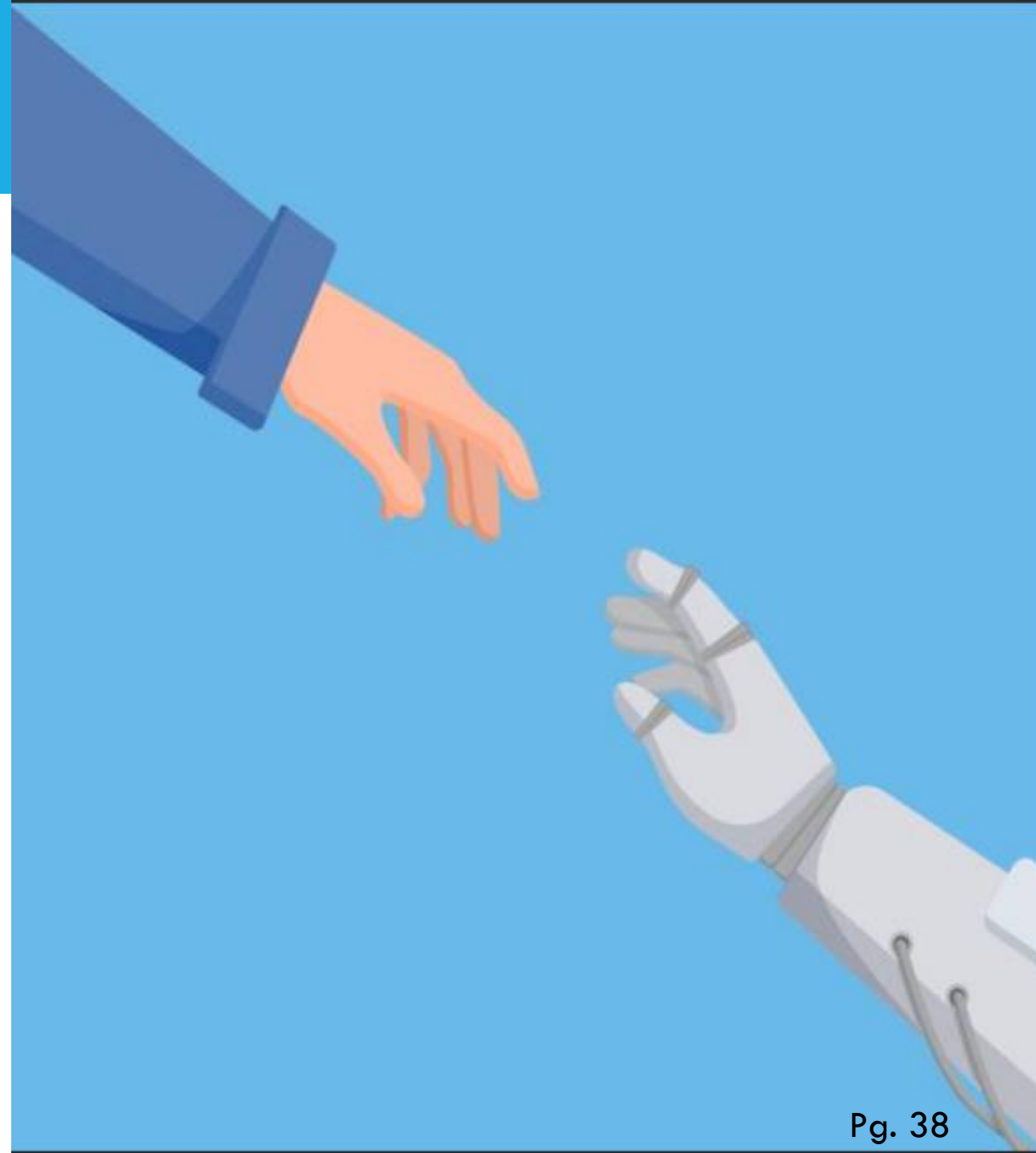
Grading Disadvantages

- Lack of Nuance
- Privacy Issues
- Depersonalization
- Technical Limitations

THINKING *WITH* AI

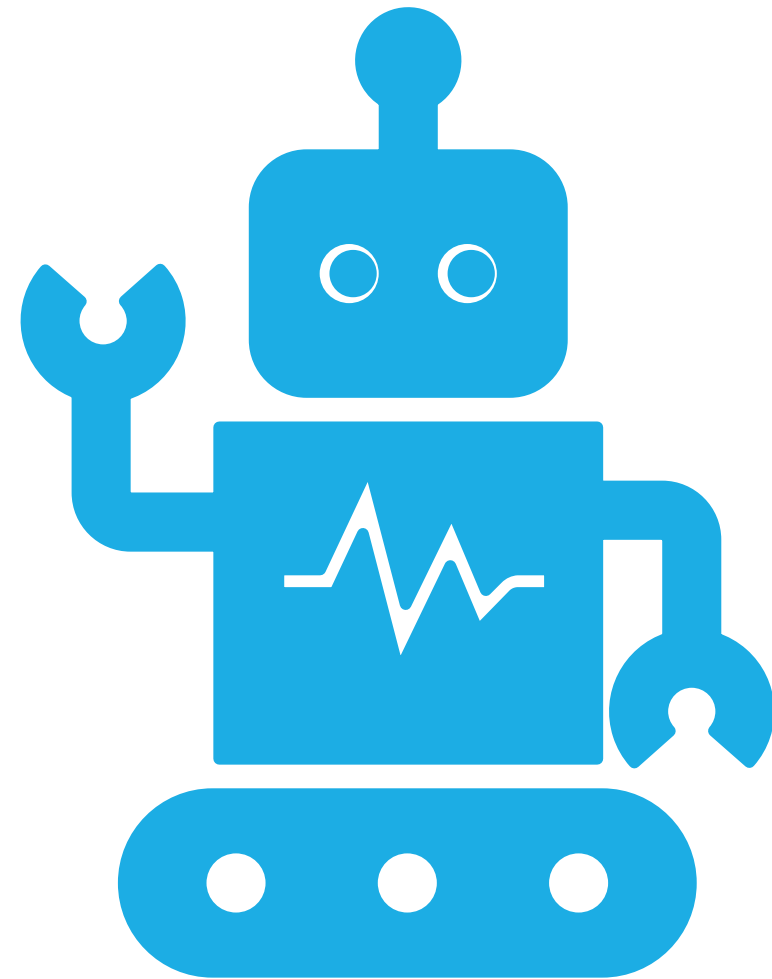
"Thinking of ChatGPT as a co-instructor rather than a competitor has helped me create a personalized learning environment and recalibrate how I think about education."

Maynard, 2023



THE INDEFATIGABLE, NON-JUDGMENTAL TUTOR

Student collaborations with AI





“The combination of AI’s ability to mimic average and alter its voice for different audiences makes AI a great partner for practicing discussions with students or colleagues (or before you ask for a raise, negotiate for a new car, or apologize to your mother).”
-p. 92

PROMPT EXAMPLES

These are simple, but a good place to start:

- What would make this essay better?
- How could I make this design accessible to more people?
- What are some other ways to phrase this idea?
- Are there important points, data, or references I am missing? Is there important evidence I have not included?
- How can I make the beginning more compelling to pull in readers?

More effective due to included context:

- How would I change the tone of this essay to make it more/less professional/academic/entertaining/newsworthy/heartwarming/serious?
- What might an average reader/fourth grader/college professor/IRS auditor find confusing/objectionable/exciting?
- You are a highly effective college instructor. Can you provide feedback on this essay/assignment using the attached rubric? Please note areas of strengths and weaknesses and specific ideas for improvement.

EXAMPLES:

“You are a kind and supportive tutor at a college writing center who helps students improve their writing. Using the attached rubric, prompt me with specific feedback to help me turn this paper into ‘A’ work. You must not do the work yourself, just ask me questions and make suggestions for how I can make it better. Ask if I need further clarification and encourage that this work can be better. Continue until I have reached the ‘A’ standard for all parts of the rubric.”

Potential phrases to include:

1. Ask me one question at a time.
2. Help me anticipate problems and refine my plan.
3. Be a _____ with high standards.
4. Provide clear and specific feedback
5. Do not improve my work yourself; only give feedback.
6. Use the attached rubric.

A large, light blue number '3' is centered within a black circle. The background of the entire image is light blue.

3

**ALL ASSIGNMENTS ARE AI
ASSIGNMENTS.** |



If we are to prepare students for a world where collaboration with AI is required rather than prevented, then helping students leverage AI to produce better work should become a signature pedagogy in higher education.

Teaching with AI, p. 233





If not, why not?
If so, how?

-- *Lacy Means*





PEDAGOGY IS OUR FRIEND.





Good pedagogy should always be our first consideration. Combining high standards with high care, building trust and community, focusing on equity and inclusion, increasing motivation, and creating better, clearer, and more relevant assignments can both increase learning and reduce cheating.





We need to clarify further what we want students to learn, why it is valuable, and especially why the effort and discomfort required are necessary.





**AI LITERACY IS A NEW ESSENTIAL
SKILL.** |



Employers responded to the internet by asking for employees who could do more than just Google an answer, and now they will want to hire graduates who can also do more than just ask AI.





... AI literacy will need to include how to
1 find the right AI for the job, **2** how to craft
better prompts, **3** the causes and danger
of hallucinations, and especially the
4 value of iteration.





**WHAT AI TOPICS WOULD
YOU LIKE US TO
EXPLORE THIS YEAR?**



Questions, Comments, Concerns?

Feedback Survey

Next Week's Session: Tuesday, September 10

New Features in Teams!

Register HERE

Thank you!

Resources:

- [Book a Consultation](#)
- [40 AI tools for the classroom - Ditch That Textbook](#)
- [Chatbot Cheatsheet — AI for Education](#)