



University of Houston-Downtown
Center for Teaching
and Learning Excellence



DIGITAL LEARNING WORKSHOP SERIES

AI in Writing: Boosting Creativity and Integrity

Facilitated By: Dr. Dement, Fabiola Vacatoledo, MS,
Dr. Lund, Dr. Trufan, & Dr. Case

WORKSHOP THREE

Session Outline

Overview of Writing and AI

Examples Across Disciplines from UHD Faculty

- Dr. Theresa Case
- Dr. Giuliana Lund
- Dr. Eszter Trufan

Activity (Roundtable Discussion)

Conclusion and Resources



Introductions and Orientation

Our Team

Dr. Gregory Dement
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This is a Discussion-Based Workshop:

We will hear examples of writing assignments from faculty across disciplines:

- **Dr. Case** - History
- **Dr. Lund** - English
- **Dr. Trufan** – Chemistry

- We will end with a time for Q/A and discussion.
- During the presentation, please record your questions for the discussion.

At Your Tables:

Notecards for writing down your comments and questions.

The Problem and a Solution

Problem:

When LLM/AI bots do the work of writing for students, learning is diminished.

Solution:

Ensure that students engage in the writing processes that produce the desired learning outcomes.

The Pedagogical Solution

- Rethink and Refine Learning Outcomes (Why are students being asked to write something?)
- Value process over product
- Help students understand the value of human insight.

***Writing is a way of processing, of understanding, of ... growing.
... writing is a tool of learning. ... Writing is thinking
(Norell, 2023)***

- Be transparent about the value of writing for learning and growth
- Encourage metacognition

Understand AI Capabilities vs. Human Skills in Writing

What do humans and AI uniquely bring to the writing process?

AI Capabilities

- Efficiency and Speed
- Consistency and Accuracy
- Data Handling
- Initial Drafting

Human Skills

- Creativity and Originality
- Critical Thinking and Analysis
- Emotional Intelligence
- Ethical and Contextual Understanding

Growth

- Reflective Practices
- Personal Growth

"Literacy increasingly means and includes interacting with and critically evaluating AI." - Joel Abrams, [The Conversation Newsletter](#)

	AI Capabilities	Human Skills	
AI Capabilities	Efficiency and Speed	Generates text quickly, useful for drafting and editing large volumes of content.	Takes time but can produce thoughtful and nuanced writing.
	Consistency and Accuracy	Maintains consistent tone, style, and grammatical accuracy.	Can adapt tone and style to different contexts and audiences.
	Data Handling	Processes and summarizes vast amounts of information, providing factual content.	Analyzes and interprets data with critical thinking and contextual understanding.
	Initial Drafting	Helps generate initial drafts for refinement.	Creates original drafts with unique perspectives and creativity.
Human Skills	Creativity and Originality	Limited to patterns and data, may lack true originality.	Brings unique perspectives, innovative ideas, and creative thinking.
	Critical Thinking and Analysis	Can mimic analytical language but lacks deep understanding.	Deeply analyzes and interprets complex concepts, making nuanced connections.
	Emotional Intelligence	Mimics emotional language but lacks genuine emotional experience.	Infuses writing with genuine emotion, empathy, and personal voice.
	Ethical and Contextual Understanding	Lacks understanding of ethical implications and context.	Understands ethical implications and cultural context, ensuring appropriateness.
Growth	Reflective Practices	Cannot reflect on its own process or learn from experiences.	Reflects on the writing process, learning from feedback and experiences.
	Personal Growth	Does not experience personal growth or development.	Develops critical thinking, creativity, and communication skills through writing.

Understand AI Capabilities vs. Human Skills in Writing

How can AI enhance the process of writing to learn?

AI Capabilities

- Efficiency and Speed
- Consistency and Accuracy
- Data Handling
- Initial Drafting

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Understand AI Capabilities vs. Human Skills in Writing

What can humans do to improve writing that AI does not do well?

Human Skills

- Creativity and Originality
- Critical Thinking and Analysis
- Emotional Intelligence
- Ethical and Contextual Understanding

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Understand AI Capabilities vs. Human Skills in Writing

In what unique ways can humans learn from the process of writing?

Growth

- Reflective Practices
- Personal Growth

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The Writing Process



Human vs. AI Tasks in Writing to Learn

	Learning Outcomes	AI Tasks	Student Tasks	Enhancement	Responsible Use
Prewriting	Organize thoughts and plan effectively.	AI can assist with brainstorming ideas and creating mind maps.	Engage in free writing, outlining, and discussing ideas with peers.	AI provides a broad range of ideas and organizational structures.	Use AI to supplement brainstorming, not replace it, maintaining originality.
Researching	Gathering information, evaluating sources, and synthesizing data relevant to their topic.	AI can help locate credible sources, summarize articles, and provide quick access to information.	Critically evaluate sources, take notes, and integrate research findings.	AI speeds up the research process, allowing focus on critical evaluation.	Verify AI-suggested sources and avoid over-reliance on AI summaries.

Other Academic Integrity Considerations



The Current Problem with Detectors

- Inconsistent and easily misused
- Flag high quality writing
- Does not encourage intrinsic motivation



Pedagogical Alternatives

- Be transparent about AI expectations
- Promote writing to learn



Other ways to address academic dishonesty concerns:

- Discuss ethical implications specific to your discipline.
- Discuss potential biases.
- Discuss copyright concerns related to AI-generated content.

Discussion Prep

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Integrate AI in Historian's Craft Research and Writing

Dr. Case



Incorporating AI in a Humanities Course

Dr. Lund



Writing with AI in Chemistry

Dr. Trufan



Activity

Roundtable Discussion



THANK YOU

Resource



Generative AI Faculty Guide

bit.ly/uhdgenai



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and Learning Excellence**

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Instructional Design Support

Bit.ly/CTLEpedagogy

Graphic Design & Video Support

bit.ly/CTLEdesign