

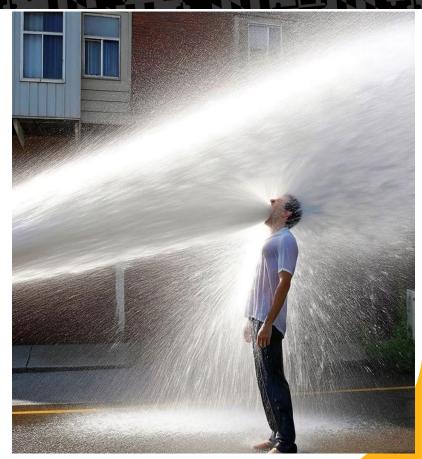
Teaching in the Era of Al

FLC 23-24

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Generative AI and You?



Generated by ChatGPT 4.0



Polling (green/pink)

UMBC has an Al policy?

Student cheating with AI is a huge problem?

Al may help my teaching?

I need some AI training?



ChatGPT access on 11/30/22

Brainstorming

Post Everything You Know is "True" About AI & Higher Education click on a post it and add at least 3 or as many as you like.)

Using ChatGPT is cheating

of talk about Al & Higher **Education but** not a lot of actual data.

early stages of Al and the technology will continue to develop.

Al detectors are not very accurate, particularly for **English Language** Learners

"TRUE" --- here to Stav Al can be false Al does not have info after 2021 Al has only some info from Internet Monitoring tools can have false positives

papers/reports?

Do we allow usefulness/potential/b students to use ChatGPT to write enefits/risks/costs vary WIDELY by field their term

We are in the very

ChatGPT can help with process of elimination. Pose a historical question that it lacks data to answer, and it will respond that the question has not been answered yet.

Professors have an opportunity to use Al to help with basic communications and required reports.

> ChatGPT (GPT-4 especially) is better than many students at answering "easy"

There are a lot of financial incentives for companies to incorporate Al

Programs attempting to identify when someone is using ChatGPT are imprecise especially when the writer is a non-native speaker.

Al "learns" from written stuff on the internet already. I think?

questions.

I have caught quite a few students using ChatGPT to do their assignments. I am sure more have gotten away with it than have been caught.

came out

Some universities have Al policies

Chat GPT will make up information, it is up to the student to evaluate the information

Does the use

of ChatGPT

plagiarism?

I don't know

anyone paying

for ChatGPT 4

constitute

There are a lot of Education.

ChatGPT can be relatively accurate, but sound weird in a way that's hard to articulate.

Prompt engineering will need to become a learning objective in order to prepare students for the post Chat GPT world

There is a lot of variability in students use of AL some have never heard of it, some are frequent users

I told my students

projects; ~75% said

they used it: half of

allowed for their

those said they

found it useful

ChatGPT was

final coding

ChatGPT and Bard are two Al interfaces

It will be important for instructors to include language on their syllabi about Chat GPT due to the variability in its use and classroom goals

Some students at **UMBC** are using Al

> ChatGPT was released to the public on 11/30/22

inere is a lot

in higher ed

Chegg's stock lost 2/3 of its value since ChatGPT

provided.

scholars across the world interested in thinking about how Al is going to impact the future of Higher



FLC Themes

- Mapping Landscape of AI in Higher Ed
- Al Academic Integrity & Ethics
- AI & Assignment Design
- Surveying Depts' Gen Al Attitudes & Practices
- Al Policies: Syllabus, Department, College, Univ.
- Weaknesses of Gen AI "The Jagged Edge"



Selected FLC Pilots:

Al for Adjuncts Dept FAQs

FLC Teaching in Era AI DRAFT 2/23/24 Not for Distribution Angela Katenkamp

Sections:

What is Generative AI?

What are University Policies relevant to Generative AI?

What are the Psychology Department's Policies on Generative Al?

What are some examples of syllabi statements regarding Generative AI?

How can I prevent the use of Generative AI in my course?

How can I tell if a student has used Generative AI?

How can I use Generative AI in my course design?

What are some examples of activities I can do in class regarding Generative AI?



Basic Guide to Generative AI for Faculty

John Schumacher, Ph.D. jschuma@umbc.edu

DRAFT Version: 2/17/24

What is Generative AI?

Gen AI is a tool; it's an assistant, one is even called "co-pilot." You access it via a web browser interacting via its "prompt bar" using ordinary language (it's like a search bar). It's generative in that it generates tailored responses based on your input or "prompts." Gen AI is also known as LLMs or large language models. It's much different than using Google search.

Major Generative AI models	Company	
1. Chat GPT https://chat.openai.com/	(Open AI)	
2. Claude https://claude.ai/	(Anthropic)	
3. Perplexity https://www.perplexity.ai/	(Perplexity)	
4. Microsoft Copilot https://copilot.microsoft.com/ (Microsoft)		
5. Gemini https://gemini.google.com	(Google)	
6. Pi.ai https://pi.ai/talk (no log in required) (Inflection AI)		
All are free to try. I use the first three and have used the paid ChatGPT Plus 4.0 (\$20/month).		



AI & Assignment Design:

ENGLISH 392

Spring 2024

Tutorial in Writing

UMBC Instructor: Dr. Margie Burns

Assignment due: Week 12

- 1. **Use ChatGPT** or similar tool, address the condition, situation, or problem that your proposal will address. Then add your own comments, corrections, agreement, or criticism in one to three paragraphs. Save the whole in a Word document.
- 2. Using Google or similar search engine, pose the same question as in (1). Again, record the response. This time, you will have to synthesize several results—probably a few of the top results or maybe a few of the most interesting

Survey Depts' Gen Al Attitudes/Practices:

- -Return of bluebook exams
- -"I'll quit if you force me to use Al."

Weaknesses of Gen AI – "The Jagged Edge"

Green's Theorem Explanation

May 10, 2024

- Anonymous

 Describe Green's effect in physics

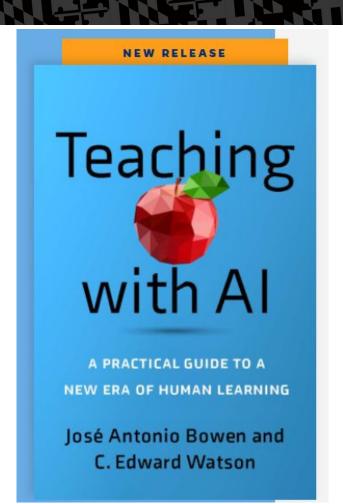
In physics, Green's theorem is a fundamental result in vector calculus that relates a double integral over a region in the plane to a line integral around the boundary of that region. It is named after the British mathematician George Green, who first formulated the theorem in the early 19th century.

Green's theorem states that for a region D in the plane bounded by a simple closed curve C, and for a vector field \mathbf{F} whose components have continuous first partial derivatives on an open region containing D:

$$\oint_C \mathbf{F} \cdot d\mathbf{r} = \iint_D \left(rac{\partial Q}{\partial x} - rac{\partial P}{\partial y}
ight) dA$$



New Resource:
Jose Bowen &
C. Edward Watson
(2024)





AI & Higher Ed Resources

Ethan Mollick (2024). Co-Intelligence. also – UPenn Professor author of One Useful Thing Substack https://www.oneusefulthing.org/

Podcast on 80 Uses of Chat GPT in the classroom (listen or scan transcript): https://teaforteaching.com/305-80-ways-to-use-chatgpt-in-the-classroom/

Compilation of syllabus policies on AI (63 pages):

https://docs.google.com/document/d/1RMVwzjc1o0Mi8Blw -JUTcXv02b2WRH86vw7mi16W3U/edit?pli=1#heading=h.1cykjn2vg2wx

Ted Talk by Sal Kahn, creator of Kahn Academy on Al & Education:

https://www.ted.com/talks/sal_khan_how_ai_could_save_not_destroy_education?utm_campaign=tedspread&utm_medium=referral&utm_so_urce=tedcomshare

Generative AI has Arrived. What Does this Mean for Teaching and Learning at UVA? <u>University of Virgina.</u> <u>https://teaching.virginia.edu/galleries/generative-ai</u>



FLCs on AI for 2024-2025 Apply Now!

1) Developing Students' AI Literacy Within & Across Disciplines

2) Using AI to Enhance & Expedite Teaching