AI as Your Academic Ally:
Revolutionizing Faculty Work Beyond Research

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What IF AI could…in a matter of minutes…

- **Create "explain like I'm a 5th grader" summaries for every complex theory in your syllabus.** How would your course prep change?
- **Draft 20 debate topics comparing key course issues across disciplines.** How would that transform your class discussions?
- **Design a culturally responsive case study for every project in your course.** How would engagement variety change in your course?
- **Create active learning activities tailored to your specific module learning objectives.** How would your teaching change?
- **Suggest a variety of diverse engagement activities for your course content.** How would that impact student success in your course?
- **Draft reflection prompts linking your course material to weekly breaking news events.** How would your course connections to real-world examples be improved?

YES, every example I described AI can do!
As your faculty assistant, AI can REVOLUTIONIZE your work (beyond research)!
Important Note:

- I'm proposing AI ONLY as your assistant!
- Primarily goal = a quick baseline starting point to save you lots of time and help you innovate!
- Your expertise in the process is critical!
- Do NOT assume I'm suggesting you use the AI answers as given by AI.

Major Areas for AI as your Faculty Assistant (outside of research)

Course Planning & Development

(Brainstorming, Content Creation, Accessibility & Inclusivity)

1. **Brainstorming Examples**
   - **Generate debate topics** (e.g., comparing ethical AI use in different disciplines, like nursing vs. computer science)
   - **Create role-play scenarios** (e.g., for soft-skill development - Simulate a conflict-resolution dialogue between lab partners)
   - **Ideate culturally responsive case studies** (e.g., Develop a business ethics scenario set in a multicultural workplace)
   - **Brainstorm interdisciplinary project ideas** (e.g., Combine environmental science and graphic design for a climate campaign)
   - **Propose active learning activities** (e.g., Design a peer-teaching exercise for calculus concepts)

2. **Content Creation Examples**
   - **Design applied exit tickets that assess student understanding of the day's key concepts** (e.g., Develop a real-world problem that students must solve using today's physics principles in 2-3 sentences)
   - **Generate "explain like I'm 10" summaries of complex theories** (e.g., quantum physics basics)
   - **Draft discussion prompts that connect course material to current events** (e.g., Link supply chain economics to 2025 AI labor trends)
   - **Generate a set of reflection questions to accompany a case study** (e.g., Create 5 open-ended questions that encourage students to analyze ethical implications in this business scenario)
   - **Design self-assessment checklists for group projects**

3. **Accessibility & Inclusivity Examples**
   - **Auto-generate alt-text for a diagram** (e.g., Create ADA-compliant descriptions for cellular respiration flowchart)
   - **Generate visual concept maps to explain abstract theories** (e.g., Convert philosophy readings into mind maps showing connections between thinkers)
   - **Create diverse representation images reflecting class demographics**
   - **Produce multilingual glossaries with simple definitions** (e.g., Translate engineering terms into Spanish and French with student-friendly explanations)
   - **Suggest multiple assessment formats (written/oral/digital) for key concepts** (e.g., Propose three UDL-aligned ways to assess understanding of climate change)

Student Support & Feedback

(Personalized Assistance, Feedback Efficiency, 24/7 Support)

4. **Personalized Assistance Examples**
   - **Generate AI-powered draft feedback using rubrics** (e.g., students input an essay into AI to assess the thesis clarity using the course rubric criteria)
   - **Create AI-role playing scenarios for skill practice** (e.g., simulate patient interactions in nursing to practice diagnosis questions)
   - **Develop personalized study aids** (e.g., 10-minute microbiology review podcasts)
   - **Simulate tutoring dialogues for common misconceptions** (e.g., Why does $0/0 \neq 1$?)
   - **Develop self-assessment checklists for research paper drafting**

5. **Feedback Efficiency Examples**
   - **Pre-draft feedback for common statistical analysis errors in social science assignment**
   - **Create error logs categorizing recurring grammar/style issues**
   - **Generate revision prompts tied to course learning objectives**
   - **Draft growth-focused encouragement templates** (e.g., Your thesis shows improvement in X; next focus on Y).

- **Design self-assessment checklists** (e.g., Develop 5 reflection questions about thesis statement development for English 101 drafts)

6. **24/7 Support Examples**
   - **Generate "office hour" chatbots for after-hours Q&A** on lab protocols
   - **Create interactive syllabus navigator with searchable keywords**
   - **Develop FAQ banks addressing semester-specific stressors** (e.g., midterm prep tips)
   - **Simulate peer-review guidelines for collaborative projects** (e.g., simulate peer-review guidelines for a business ethics group project, including criteria for evaluating problem-solving approaches, teamwork, structure, research depth, and solution practicality)
   - **Generate syllabus-aligned study schedules** (e.g., develop a 4-week prep schedule for POLS 101 midterms using course calendar dates)

Administrative Efficiency

Communication, Project, Event Examples

- **Draft student recommendation letters** (e.g., Khanmigo Teacher Tools)
- **Generate meeting summaries** (e.g., AI assistant in Zoom)
- **Draft synthesis or timeline of a project using your notes/documents** (e.g., Google Notebook)
- **Brainstorm workshop themes or presentation titles** (e.g., TitanGPT/MS Copilot)
- **Create accessibility checklists for conference planning** (e.g., TitanGPT/MS Copilot)
- **Create AI-generated images for presentations, handouts, etc.** (e.g., Adobe Express/Firefly)

Ethical Use & Best Practices

- **Play & Explore** – Try a variety of AI tools to learn what each does best and their limitations
- **Always Keep Human in the Loop** - Be critical & skeptical & use your expertise to review & refine AI-generated content
- **Avoid Oversharing** – Don't share sensitive or private information with AI tools
- **Be Transparent** – Disclose your use of AI. Model what you teach!

How Do I Use AI to Do Things Mentioned…

- Participate in an FDC Professional Development Offering (**AI Trailblazer Certificate** & **WAC LiAIsons**)
- Complete training from the **CSU AI Commons**
- Make use of the tons of resources from FDC & CSU AI Commons
- Or even ask AI itself!