

For my instructional design project proposal, I will be developing a learning module for generative AI, specifically on how educators can leverage video, audio, and textual generative AI to enhance the classroom environment.

The syllabus will include written versions of the course objectives, information on course delivery and pace, and any other expectations from using the course materials.

My proposed modules and their objectives include:

Module 1: What is Generative AI and how is it developed? Learning outcomes include:

- Understand at a high level how textual, auditory, and image-based generative AIs are developed and trained
- Explain the role of Natural Language Processing in prompt generation for generative AI
- Describe how neural networks form the basis of generative AI

Learning resources include readings on neural networks, the NLP Toolkit, and OpenAI on generative AI and LLMs

Module activities include a coding demo (video) on processing text using simple NLP tools; and Images, audio, and text samples from generative AI like ChatGPT, text-to-speech, and DALL-E

Because this module is about defining components of AI, assessment will be a quiz coded in JavaScript.

Module 2: Applications of Generative AI for classroom environments. Learning outcomes include:

- Apply image generation AI like DALL-E to enhance multimedia educational content in presentations
- Develop assignments that allow students to work with LLMs such as critiquing the language choices of ChatGPT
- Convert traditional learning resources into multimedia presentations using generative AI for a medium that previously did not exist

Learning resources include free online models like ChatGPT, DALL-E, and ElevenLabs text-to-speech, and a podcast on thinking through developing classroom assignments with AI in mind.

The module activity is brainstorming ways to integrate AI into a classroom environment in each subject. The module assessment is to convert a traditional piece of learning material into a multimedia presentation through generative AI.

Module 3: Final Unit: Ethics in AI

This module will overview future of generative AI and our role in treating it responsibly. From the future of a workforce with to as a personal assistant, AI is here to stay.

Learning outcomes include:

- Assess the role of AI in future learning and professional spaces
- Propose ethical solutions to topics such as AI training and privacy

The learning resources for this module are case studies on improper use of AI and the module activity is analyzing these case studies and proposing areas where the AI could have been used more ethically/effectively.

The assessment is a multimedia presentation created partially with generative AI on the importance of ethical guidelines for the training, usage, and commercial application of generative AI.