



Using AI to Enhance Universal Design for Learning

Course Syllabus

Course Description

Artificial Intelligence is the illuminator of many learning paths. The purpose of the course is to help educators use artificial intelligence (AI) to support the diverse and variable needs of all learners. The course is based on the framework of Universal Design for Learning (UDL), which is a people-first design approach that guides the creation of learning experiences that are accessible and engaging for everyone.

The course is suitable for educators from different levels and contexts, as it provides flexible options and supports for learning. The course also encourages collaboration and feedback among participants, as well as self-reflection and evaluation.

Note: this course is delivered in collaboration with Ed3 DAO.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in how to apply Universal Design for Learning (UDL) principles with AI to create accessible, flexible, and personalized learning environments for all learners.

Course Objectives

At the end of this course you should be able to:

1. Explain the key concepts and principles of UDL and AI and how they can help you design inclusive and effective learning environments for all students.
2. Apply some strategies and techniques to provide multiple means of engagement using AI tools and resources.
3. Apply some strategies and techniques to provide multiple means of representation using AI tools and resources.
4. Apply some strategies and techniques to provide multiple means of action and expression using AI tools and resources.
5. Apply some strategies and techniques to assess student learning with AI tools and resources.
6. Apply some strategies and techniques to evaluate and improve your AI-enhanced UDL practice using AI tools and resources.
7. Apply some strategies and techniques to use AI in education responsibly and ethically.



8. Showcase your AI-enhanced UDL learning journey to your peers and instructors and reflect on your learning journey and achievements in this course.

Modules

- Module 1: Introduction to UDL and AI, Quiz 1
- Module 2: Provide multiple means of engagement, Quiz 2
- Module 3: Provide multiple means of representation, Quiz 3
- Module 4: Provide multiple means of action and expression, Quiz 4
- Module 5: Assess student learning with AI enhanced UDL, Quiz 5
- Module 6: Evaluate and improve your AI-enhanced UDL practice, Quiz 6
- Module 7: Explore ethical and social implications of using AI in education, Quiz 7
- Module 8: Showcase your AI-enhanced UDL learning journey, Quiz 8

Grading

Each quiz must be passed at an 80% or higher (three attempts allowed).

Format

This is a self-paced, asynchronous (no required live meetings) course. Throughout the PD course, you will find it helpful to take notes along the way to assist with the quizzes. Within each module, you will find reflection assessments that are not graded but will help in your journey through the course.