

Course Title: Artificial Intelligence in Education: Where is it? Or, More Appropriately- Where is it Not?

Dates: August 4-7

Course Number: EDU 5900

Instructor: Amy Nass

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Overview and Goals: This course explores the role of artificial intelligence (AI) in education, examining its applications, benefits, challenges, and ethical considerations. Each module focuses on a particular aspect of AI in education, providing practical insights for educators. Through hands-on exploration, videos, selected articles, discussions, and practical activities, participants will develop a critical understanding of AI's impact on teaching, learning, and curriculum design.

By the end of this course, participants will:

- Understand key AI concepts and their relevance to education.
- Evaluate AI-driven tools and platforms used in teaching and learning.
- Explore ethical considerations, biases, and privacy concerns in AI applications.
- Develop strategies for integrating AI in classroom settings and curriculum design.
- Analyze the future implications of AI in education.

Module 1: Introduction to AI in Education & AI Tools for Teaching and Learning

Topics: Definition of AI, History of AI in Education, Current Trends, What is Generative AI?, AI-powered adaptive learning, AI in assessment, Effective Prompting, Crafting Assessments.

Materials: Listing of AI generative software and AI features/add-ons that are EdLaw 2d compliant; Relevant Articles.

Assignment: Reflection post—How do you see AI influencing education in your own context? If you have used it for planning, teaching or evaluation, was it successful? Evaluate and review an AI-based educational tool from the posted list of approved Edlaw 2D compliant options.

Module 2: Navigating Responsible AI: Ethical Considerations, PII and Data Protection; Reclaiming Time by Increasing Efficiency.

Topics: Data privacy, Equity in AI-driven education, New York State EdLaw 2d requirements on data security and privacy, ensuring you and your students' Personally Identifiable Information (PII) is safe, AI for grading, feedback automation, classroom management tools, email and communication automation.

Readings: Research on AI's role in teacher efficiency and legal considerations in education related to student PII.

Assignment: Pick one EdLaw 2d-compliant software you have not yet tried. Using the free version and what you learned in Module 1, document its effectiveness and limitations. How can this be used to make your planning more efficient? (Optional Assignment: Notate any AI software that you are unsure is compliant for feedback on our list.)

Module 3: AI for Teachers – Curriculum Design and Enhancement

Topics: Lesson planning with AI, AI-driven curriculum enhancements, with a focus on personalized learning; AI tools for scaffolding and inclusivity, Rubric and quiz generation; student feedback

Readings: Studies on AI's role in curriculum development, including gamification and immersive learning environments.

Assignment: Create a new lesson plan or use an existing one that you plan to use this upcoming school year. Using an AI tool of your choosing, how can you make it better? Differentiate for diverse learners? What can you generate to enhance your students' learning? Evaluate—is this something you would regularly use?

Module 4: Putting AI into Students' Hands

Topics: AI for student learning, Building critical thinking skills, AI literacy, Ethical considerations and academic integrity.

Materials: Future projections on AI in education and student use of AI; articles and videos. Student platforms.

Assignment: Pick one AI tool we have touched on, or one you have discovered, and play the role of a student. How would you use this? Is this an ethical use? How might you use this in your own classroom to assign to students? Optional Assignment: Develop a proposal for how to present the benefits of using AI in your school building.

Important Information:

Assignments are due each day by 11:59 PM

Each Module's assignment will account for 25% of the course grade.

Optional synchronous meet and discussion times will be posted as well as individual google meet opportunities.