



Course Syllabus

<u>Course:</u>	EDZU 9115 Enhancing Teaching and Learning through Artificial Intelligence
<u>Credit Hours:</u>	3.0 credits / 45 hours
<u>Instructor:</u>	Dr. Lauren Miller

Course Description

Although artificial intelligence has existed for some time, the recent development of generative artificial intelligence through websites like ChatGPT and Magic School AI have changed education today. As 21st century teachers, It is incredibly important for us to know more information about what technologies exist, what capabilities AI has, and how we can harness AI to enhance both teaching and student learning. This course will emphasize these very important elements for K-12 teachers and service providers. Students who take this course will obtain a great deal of knowledge and resources on using AI for aspects of their own teaching such as lesson planning and creating assessments, as well as how to integrate AI into their own classrooms by allowing their own students to utilize this technology in the classroom to improve learning. Attention will also be given to plagiarism detection software that educators may choose to use in their own classrooms.

Course Goals

To Know

1. What artificial intelligence is
2. What artificial intelligence websites exist in education
3. How difficult it can be to identify plagiarism when using artificial intelligence websites

To Understand

1. The capabilities that generative artificial intelligence has for both teachers and students
2. How to utilize generative artificial intelligence for good
3. How to integrate artificial intelligence into the classroom

and To Be Able To

1. Utilize artificial intelligence websites specific to education
2. Identify both pros and cons of utilizing artificial intelligence in the classroom
3. Create boundaries for artificial intelligence use in one's own classroom

Course Outline

- I. What is artificial intelligence (AI)?
 - A. Artificial intelligence, broadly
 1. generative artificial intelligence
 - B. Artificial intelligence in everyday life
 1. Technologies that use artificial intelligence
 - C. How artificial intelligence impacts education
 1. At present
 2. In the future

- II. AI for teachers and school professionals
 - A. What artificial intelligence can do in the field of education
 1. Capabilities
 2. Ethical considerations
 - B. Artificial intelligence websites designed specifically for teachers/school professionals
 1. Magic School AI
 2. Khamingo
 3. Chat GPT
 4. Other online resources

- III. AI for K-12 students
 - A. Empowering students to utilize AI
 1. Examples of how AI is used by students in the classroom
 - B. AI Tools for students
 1. Character AI
 2. Read Speaker AI
 3. School AI
 - a) Sidekick

- IV. AI for schools
 - A. Policies and Procedures for utilizing AI
 1. School level
 2. Individual classroom level
 - a) Engaging students in AI
 - b) Implementing AI appropriately

B. Drawbacks of utilizing AI

1. Plagiarism
2. Plagiarism detection technology

Methods of Instruction

School professionals in this course will engage in meaningful learning activities that require them to learn about and utilize a variety of tools related to artificial intelligence in education. School professionals will share examples of artificial intelligence that are already commonly used, and will learn about new resources and tools that are available for artificial intelligence in education. They will complete assignments that enable them to learn about how generative artificial intelligence is changing education as we know it today, and will read articles describing the importance of teaching digital literacy skills to today's students. They will also evaluate both pros and cons of using artificial intelligence in the classroom, and reflect on how the incorporation of artificial intelligence can enhance teaching and learning. Students will engage with various artificial intelligence websites including those designed specifically for teachers, and other sites designed to be used by students. Students will be able to identify plagiarism detection websites to detect whether their own students may be using artificial intelligence to complete their assignments.

Students will connect with each other throughout the course within forums and various other types of online feedback options built into each class.

Methods of Assessment

In order to earn an A in the class, a student must complete all of the assigned readings and assignments, participate in all discussion forums, and will complete the graduate assignment, consisting of a culminating 3-5 page paper.

In order to earn a B in the class, a student must complete all of the assigned readings and assignments, participate in all discussion forums, and will complete a culminating 1-2 page paper.

Instructors are online each day of the course and correspond with students through the course itself, feedback on assignments, and e-mail.

Time Validation

Assignment	Time (in hours)
Unit 1	
Forum Post: Students will introduce themselves and identify their level of comfort with using AI	1.00
Assignment: Students will watch a video on what AI is and will respond to questions	1.00

Assignment: Students will read article by Office of Educational Technology and will write a reflection	3.00
Forum Post: Students will identify what they want to know about using AI	1.50
Assignment: Students will watch a video and identify how artificial intelligence is used in everyday life or how they would like to use artificial intelligence in the future	1.50
Assignment: Students will watch a video on how AI is changing education. Then, they will write a reflection on their own thoughts regarding this topic.	2.00
Unit 2	
Assignment: Students will read an article on generative AI and respond to prompts	2.00
Assignment: Students will sign up for, explore, and learn to use AI on the Magic School AI website. Then, they will generate AI output to demonstrate their ability to use the site.	3.00
Assignment: Students will sign up for, explore, and learn to use AI on the Khamingo website. Then, they will write a response on how they can integrate one of the tools into their practice.	3.00
Assignment: Students will sign up for, explore, and learn to use AI using Chat GPT. Then, they will write a reflection on the quality of the generative text obtained, evaluating the effectiveness and accuracy of AI.	3.00
Forum Post: Students will research and explore other education-related AI websites. They will share the specific website and write about the capabilities of it, as well as how it can be integrated into the classroom.	2.00
Unit 3	
Assignment: Students will watch a video on empowering students to use AI in the classroom, and will reflect on the ideas presented	1.50
Assignment: Students will read an Edutopia article and respond to questions posed	1.50
Assignment: Students will learn about the Character AI website and will practice using it for future integration into their classrooms	2.00
Assignment: Students will learn about the Read Speaker AI website and will practice using it for future integration into their classrooms	2.00
Assignment: Students will watch a video on School AI and will explore all of the many features of the site. They will then program the AI website for use in a future lesson and will describe how it will be used.	4.00
Forum Post: Students will describe the AI website that they are most excited about, and will share how they plan to include it in their instruction	1.00
Unit 4	

Assignment: Students will read an article on AI for school leaders and will respond to questions	2.00
Assignment: Students will list recommendations for introducing AI into their classrooms and/or buildings	2.00
Forum Post: Students will identify potential drawbacks of utilizing AI in education	1.00
Assignment: From a list of websites, students will research plagiarism detection and will brainstorm how to prevent plagiarism in their own classrooms	3.00
Assignment: Students will reflect on all they have learned, and how they will implement AI in their own settings	2.00
Total Time	45.00