



# AI for Access: Using Artificial Intelligence to Support Low-Income Learners

## Course Syllabus

### Course Description

This course empowers educators to harness artificial intelligence to support the academic success of students from low-socioeconomic backgrounds. Participants will explore how AI can personalize learning, enhance language and executive functioning skills, and provide targeted interventions in low-resource settings. Through real-world case studies, research, and video resources, educators will gain practical tools to implement AI ethically and equitably. The course addresses algorithmic bias, digital access, and the role of advocacy in shaping inclusive AI practices. By the end of the course, educators will be equipped to integrate AI meaningfully into their classrooms to reduce opportunity gaps and promote educational equity.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in the ethical and equitable use of artificial intelligence to support underserved learners.

### Course Objectives

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

1. Describe the key challenges faced by low-income learners and explain how AI can help mitigate educational inequities.
2. Demonstrate comprehension of core AI tools and apply them in scenarios related to literacy, numeracy, and student support.
3. Design personalized learning activities using AI platforms that address diverse student needs effectively.
4. Select appropriate AI tools and evaluate their effectiveness in supporting language development and executive functioning for underserved learners.
5. Develop a realistic plan for implementing AI tools within low-resource educational contexts.
6. Analyze ethical issues associated with AI use in education, including bias, privacy, and transparency concerns.
7. Formulate and defend policy recommendations or school-based actions that promote equitable and inclusive AI integration.
8. Integrate course knowledge to construct a comprehensive AI adoption strategy that aims to reduce opportunity gaps for low-income students.

### Modules

- Module 1: Understanding the Equity Imperative, Quiz 1
- Module 2: What Can AI Really Do in the Classroom?, Quiz 2



- Module 3: Personalizing Learning with AI, Quiz 3
- Module 4: AI for Language Development and Executive Functioning, Quiz 4
- Module 5: Implementation Models in Low-Resource Contexts, Quiz 5
- Module 6: Ethics, Bias, and Inclusive AI, Quiz 6
- Module 7: Advocacy and Policy for Fair AI Use, Quiz 7
- Module 8: Bringing It All Together, 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. There is an interactive forum in the course to help you connect with peers and instructors, share ideas, and collaborate on best practices throughout your learning journey.