

Effective Use of AI in the Classroom

CodeHS Professional Development Online Course

Details

Course delivery method: Self-paced online delivery

Contact hours: Approximately 3-5 hours

Prerequisite(s): None

This 5-hour professional development mini course supports educators in effectively and responsibly using artificial intelligence (AI) in classroom practice. Participants build a foundational understanding of how AI systems generate outputs and learn how to use AI chatbots to support teaching tasks such as lesson planning, content creation, and differentiation.

The course emphasizes practical application, helping educators integrate AI into their workflow while maintaining professional judgment, instructional integrity, and student data privacy. Throughout the course, participants explore real classroom use cases and develop strategies for evaluating when and how AI should be used.

Course Outcomes

By the end of this course, educators will be able to:

- Explain how AI systems generate outputs and why they require human oversight
- Use AI chatbots effectively for instructional planning, content creation, and differentiation
- Apply prompting strategies to improve the quality and usefulness of AI outputs
- Identify appropriate and inappropriate uses of AI in classroom contexts
- Recognize risks related to academic integrity, bias, and student data privacy
- Make informed decisions about when and how to use AI in their teaching practice
- Develop classroom AI use guidelines that promote transparency and student trust.

Course Breakdown (3-5 Hours)

Unit 1: Welcome to the Effective Use of AI in the CS Classroom	
Topics Covered	• Overview of course • Obtaining help
Unit 2: Foundations for Use	
Topics Covered	• What AI is and how it generates outputs • How large language models (LLMs) work • How prompts influence AI outputs
Unit 3: Integrating AI into Teaching and Learning	
Topics Covered	• Brainstorming and lesson ideation with AI • Creating instructional content and materials • Differentiating instruction using A
Unit 4: Responsible Use of AI	
Topics Covered	• Academic integrity and student use of AI • Privacy, data security, and safe AI practices • Establishing clear expectations for AI use in the classroom
Unit 6: Course Wrap-up	
Topics Covered	• Badge, survey and course completion certificate

Communication & Support

The instructor(s) will communicate with students as needed for individual questions and feedback.

Getting Help with Activities

Course students can use the Conversation tab in the code editor to ask questions about any of the activities in the course. Course instructor(s) will respond to questions and provide feedback in this area as well.

You can find more information about getting help with your coursework [HERE](#).

Course Criteria for Completion

Once students have successfully completed all activities in the course, a Certificate of Completion will be available.

