



AI in Music Education: Enhancing Creativity, Composition, and Instruction

Course Syllabus

Course Description

This graduate-level professional development course equips music educators with the tools and understanding to thoughtfully integrate artificial intelligence into their instructional practice. The course explores how AI can enhance creativity, support composition, personalize instruction, and analyze performance, all while examining the ethical and pedagogical implications. Through eight interactive modules, participants will engage in hands-on learning, discussions, and lesson planning designed to empower both teacher and student in the age of intelligent technology.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in artificial intelligence integration in music education.

Course Objectives

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

1. Understand the foundational concepts of artificial intelligence and how they relate to music education.
2. Gain hands-on familiarity with AI composition tools and identify ways to use them to foster student creativity and musical understanding.
3. Evaluate and implement AI-based performance assessment tools to support student practice and growth.
4. Explore how AI enables differentiated instruction tailored to individual student needs and learning styles.
5. Learn how to facilitate collaborative music-making experiences between students and AI systems.
6. Articulate key ethical and artistic considerations when implementing AI in music classrooms.
7. Align AI tools and activities with music standards and design curricular frameworks that support long-term integration.
8. Design practical, standards-aligned lesson plans that integrate AI tools to support instruction and creativity.

Modules

- Module 1: Foundations of AI in Music Education, Quiz 1
- Module 2: AI Tools for Music Composition, Quiz 2
- Module 3: Performance Analysis with AI, Quiz 3
- Module 4: Personalized Learning Through AI, Quiz 4



- Module 5: Creative Collaboration with AI, Quiz 5
- Module 6: Ethical and Artistic Implications of AI in Music, Quiz 6
- Module 7: Integrating AI into the Music Curriculum, Quiz 7
- Module 8: Designing AI-Infused Lessons and Classroom Applications, 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.