



A Day in the Life of AI-Integrated Teaching: Medication Safety

See how a nursing concept using medication safety can be taught with AI support—from lesson objectives and curated prompts to formative assessment strategies and student engagement tools.

Lesson Overview

Topic: Medication Safety

Level: Pre-licensure (ADN/BSN)

Length: 60-minute class session with AI-enhanced support before and after class.

Learning Objectives

- Explain the 'Five Rights' of medication administration and their relevance to safe practice.
- Identify common causes of medication errors in clinical settings.
- Apply critical thinking to prevent and respond to potential medication-related incidents.

Pre-Class AI Support

Students interact with an AI prompt: *Prompt*: “Create a checklist for safe medication administration based on the Five Rights, and explain one example of how an error could occur for each right.” Responses are used to guide small group discussions and clarify misunderstandings.

In-Class Activities

- Medication Error Scenario: Students participate in a virtual or simulated med pass scenario. AI adjusts patient vitals and responses based on student decisions.
- Group Problem-Solving: Analyze a charting error AI generated from de-identified case data.
- Just Culture Conversation: Use AI to simulate an interview with a nurse who made a med error and reflect on root cause analysis.

Formative Assessment Strategies

- Real-Time Quizzing: AI-generated scenario-based questions are used in class to assess decision-making.
- Peer Teaching: Students use AI to design a brief infographic or teaching tool on preventing med errors.
- Reflection: Students write a short journal using an AI-recommended structure on lessons learned from the simulation.

Student Engagement Tools

- Error Generator: Use AI to intentionally insert a subtle med error into a MAR and challenge students to identify it.

- Prompt Vault: Students choose and respond to prompts like “Describe a time you caught an error or saw someone else do so. What did you learn?”
- Confidence Polls: Use an AI-enhanced polling tool to measure shifts in student confidence on med safety skills.