



AI for Healthcare Professionals Course Syllabus

WESTERN GOVERNORS UNIVERSITY

AI for Healthcare Professionals

Hello, and welcome!

As artificial intelligence (AI) becomes more common in healthcare, clinicians and healthcare professionals are increasingly expected to understand how these tools influence patient care, clinical workflows, and healthcare operations. AI systems can analyze large amounts of data, assist with documentation, support clinical reasoning, and improve operational efficiency, but their use also requires careful attention to safety, ethics, privacy, bias, and professional responsibility. In this course, you will explore how AI can be applied in healthcare settings to support clinical practice and healthcare operations, evaluate AI tools for risks such as bias, hallucinations, and data limitations, and examine how AI can assist with tasks such as diagnosis support, care planning, documentation, scheduling, and administrative workflows. You will also learn how to integrate AI into healthcare workflows while maintaining human oversight, professional scope-of-practice boundaries, and patient-centered communication. The knowledge and skills you gain in this course will help you use AI responsibly to support safe, efficient, and effective healthcare delivery.

You are in the right place. You belong here. You can do this!

Course Description and Competencies

WHAT TO EXPECT

In this course, you'll move through modules that build your understanding of artificial intelligence (AI) in healthcare step by step. Each module is divided into smaller lessons that begin with the basics of how AI is used in clinical practice and healthcare operations. Then, you'll move on to evaluating, applying, and monitoring these tools responsibly. As you study, you'll build a strong foundation in healthcare AI and strengthen your ability to use these concepts in ways that support patient care, workflow efficiency, and professional accountability.

You'll explore important topics, including how AI is used in diagnosis support, care planning, clinical documentation, scheduling, staffing, and administrative workflows. You'll learn how to evaluate AI tools for ethics, safety, privacy, bias, and health equity. You'll also learn how to recognize when AI is appropriate for a task and when human judgment must remain central. Along the way, you'll examine how AI can affect patients, clinicians, and healthcare systems, and how responsible use of AI can help improve quality, safety, and trust in healthcare environments.

Throughout the course, you'll find a variety of learning activities to help you understand and apply new ideas. These include readings that explain key concepts in clear sections, videos that introduce real-world examples, interactive activities that help you practice decision-making, and knowledge checks that let you test your understanding as you go. Reflections and application exercises will also help you connect course concepts to real healthcare settings and prepare you to use AI thoughtfully and responsibly in practice.

Prerequisites:

Generative AI Skills (GAI1)

This course covers the following competencies:

1. **Evaluates AI use in Healthcare:** The student evaluates the use of artificial intelligence in healthcare.
2. **Integrates AI into Clinical Practice and Operations:** The student integrates artificial intelligence into clinical practice and healthcare operations.

Assessment

The assessment provides an opportunity to demonstrate your mastery of the competencies in this course. You may attempt the assessment two times before additional support is necessary. If you require further attempts, please contact your Course Instructor or Student Experience Specialist.

◆ 1 final project ◆ 2 competency units

Course Outline

Module	Upon completion of this module, you will be able to:
Evaluating AI in Healthcare	<ul style="list-style-type: none"> A. Analyze characteristics of healthcare activities relevant to artificial intelligence use. B. Evaluate artificial intelligence use against ethical, safety, privacy, and equity standards. C. Assess the potential impact of artificial intelligence use on patients or populations.
Using AI in Healthcare	<ul style="list-style-type: none"> D. Apply artificial intelligence within workflows used in healthcare practice. E. Incorporate human oversight into the use of artificial intelligence. F. Examine artificial intelligence outputs for limitations or risk. G. Adapt artificial intelligence use within professional scope of practice and organizational boundaries.

Technology Requirements

We want to be sure you have the tools to succeed! Review the [Computer System and Technology Requirements](#) to learn about the technology you'll need. If you have questions about your setup, contact support@academy.wgu.edu.

You will need Adobe Acrobat Reader DC. If you haven't already, [download this free software](#). You may encounter an interactive form that contains fields that you can select or fill in. Review [how to fill in a PDF form](#).

Key Contacts

Certificate Connect

Check out this online community to take advantage of course resources, including videos and tips from your educators. You can ask and answer questions, provide feedback on your progress, and interact with fellow students. You will find this platform in the Student Resources section of the course. Log on and do some exploring!

Technical Support

If you encounter technical issues, be sure to contact the Help Desk. Just [submit a Support Request for assistance](#).

Program Support

Do you have questions about your account? Student Support has answers. They can help with billing, switching courses, and other requests. You can contact them at (888) 320-0540 or support@academy.wgu.edu.

Accommodations

WGU provides compliant and accessible learning experiences. If you require accommodation, please contact us at the start of the course. You can email disability@academy.wgu.edu or call (888) 320-0540. We are committed to ensuring that all students with disabilities have equal access to WGU's services and materials. We strive to use best practices for accessibility. Our goal is to conform to existing U.S. laws. These include the Americans with Disabilities Act and Section 504 and Section 508 of the Rehabilitation Act. Our learning management system (LMS) platform is Open edX. Open edX's commitment to accessible content is published on their [Website Accessibility Policy](#).