

GRADUATE CERTIFICATE IN APPLIED AI IN HEALTH CARE PRACTICE

NURS 5123	Introduction to Applied Health Informatics and Data Science	3
NURS 5453	User-Centered Design and Responsible AI in Healthcare	3
NURS 5923	Capstone in Informatics in Healthcare	3
Total SCHs		12

Web Site: <https://twu.edu/nursing/certifications/>

The Certificate in Applied AI in Health Care Practice prepares healthcare professionals to integrate artificial intelligence (AI), informatics, and data science into clinical and organizational practice. Designed for individuals with a bachelor's degree or higher, the 12-credit program offers advanced education and training in applied AI for healthcare. Students from disciplines such as Nursing, Occupational Therapy, Physical Therapy, Health Studies, Health Care Administration, and Public Health are encouraged to apply. The curriculum emphasizes interprofessional learning, ethical AI use, and data-informed decision-making to improve patient outcomes and system performance. Graduates will be equipped to apply, evaluate, and responsibly participate in AI initiatives that advance healthcare quality, safety, and innovation.

Marketable Skills

Marketable skills prepare students for success in a variety of professional settings. Developed through academic coursework, co-curricular engagement, and extracurricular involvement, these skills include communication, critical thinking, teamwork, ethical reasoning, adaptability, and digital literacy. Whether directly related to a student's major or serving as complementary strengths, marketable skills enhance career readiness and reflect TWU's commitment to producing graduates who are prepared to thrive in today's dynamic workforce.

- Apply foundational concepts in health informatics, data science, and artificial intelligence (AI) to healthcare delivery and clinical decision-making.
- Evaluate AI-enabled tools in diverse healthcare settings, considering usability, workflow integration, and patient-centered outcomes.
- Examine the responsible and ethical use of AI and intelligent systems, with attention to equity, transparency, and regulatory compliance.
- Collaborate across disciplines to design, implement, and assess digital health innovations that enhance care quality, safety, and accessibility.
- Lead AI- and informatics-enhanced initiatives that support system transformation and data-informed decision-making in healthcare organizations.

Admissions

All students must meet the University requirements as outlined in the Admission to the TWU Graduate School (<https://catalog.twu.edu/graduate/graduate-school/admission-graduate-school/>) section of the catalog.

The academic program may have additional admission criteria that must also be completed as outlined on the program's website.

Certificate Requirements

Course	Title	Credits
NURS 5713	AI in Health Care: Applications for Clinicians and Leaders	3