

ARTIFICIAL INTELLIGENCE FOR INFORMATION SCIENCE AND TECHNOLOGY, UNDERGRADUATE CERTIFICATE

Artificial intelligence (AI) is significantly transforming professions within the information science and technology industry. Rather than replacing human workers, AI is augmenting human capabilities—boosting productivity, streamlining processes, and opening new possibilities across nearly every tech occupation. As AI becomes more embedded in how organizations operate, demand is rising for professionals who understand both the tools and the underlying information to build systems that are efficient, ethical, and user-focused.

The **Undergraduate Certificate in Artificial Intelligence for Information Science and Technology** is designed for students who want to explore the powerful intersection of AI and information science. You'll gain the skills to apply AI tools and techniques to real-world information challenges—like organizing large datasets, improving human-computer interaction, and ensuring ethical use of technology.

What makes this certificate unique is its **information science focus**. Unlike other AI programs that emphasize only computing or business, this certificate prepares you to think critically about how AI systems handle information—how it's collected, structured, retrieved, analyzed, and ethically applied in diverse environments.

The certificate requires **21 credits**, including foundational coursework in AI and options in programming, data visualization, human-computer interaction, and ethics. You can complete it as part of the **BS in Information Science and Technology**, or as a **stand-alone undergraduate credential**.

Whether you want to build smarter databases, create intuitive user interfaces, or help organizations make better, more ethical data-driven decisions—this certificate equips you with the knowledge and hands-on experience to lead in a world powered by information and AI.

Requirements

No more than 6-9 of the required credits may be taken at an institution other than UWM. They must be in areas relevant to the BSIST program. These courses are subject to the Office of Undergraduate Admissions transfer policy. The overall GPA in the program must be 3.0. The certificate must be completed in 3 years from initial enrollment date in the certificate.

Students in the certificate program must complete a minimum of 21 undergraduate credits in several required areas:

Code	Title	Credits
Required Core Certificate Courses		
INFOST 410	Database Information Retrieval Systems	3
INFOST 470	Foundations of Artificial Intelligence in Information Science & Technology	3

INFOST 671	Applied Web 3.0: Artificial Intelligence and Blockchain	3
Programming/Development Requirement		
Select one of the following:		3
INFOST 350	Introduction to Application Development	
An equivalent programming course at UWM		
Human Computer Interaction Requirement		
Select one of the following:		3
INFOST 310	Human Factors in Information Seeking and Use	
INFOST 547	User-Centered Interaction Design	
Data Science/Visualization Requirement		
Select one of the following:		3
INFOST 370	Data Analysis and Visualization for the Information Professional	
INFOST 582	Introduction to Data Science	
INFOST 687	Data Analysis for Data Science	
Information Ethics/Policy Requirement		
Select one of the following:		3
INFOST 120	Information Technology Ethics	
INFOST 661	Information Ethics	
Total Credits		21

INFOST 291, INFOST 491, and INFOST 691 special topics courses may count in the relevant areas above if taken with an AI-related topic.

Admission

UWM undergraduate students in good academic standing may enroll in this certificate program. The minimum G.P.A. for admission is 2.75.

Post Bac students who have earned a bachelor's degree from an institution UWM recognizes as accredited may also be admitted to this program.