

ARTIFICIAL INTELLIGENCE (AI) FOUNDATIONS, CERTIFICATE OF COMPETENCY (AIF)

Effective: Fall 2025

The Artificial Intelligence (AI) Foundations Certificate of Competency is a three-course program designed to equip students with the knowledge necessary to understand AI technologies in various fields, such as art, healthcare, finance, manufacturing, and security. The courses cover fundamental concepts and techniques of AI, as well as its practical applications and ethical considerations. This certificate is suitable for learners with diverse educational backgrounds and career aspirations who want a concise introduction to AI and its ethical considerations.

The Artificial Intelligence (AI) Foundations (AIF), Certificate of Competency, stacks with our broader Artificial Intelligence (AI) Specialist (AIS) Certificate of Competency. This means students can start earning the AIF certificate, gaining an understanding of AI technologies in various fields. Later students can apply these 9 credits to the AIS certificate, building on students' knowledge to earn a more comprehensive certificate.

Program Outcomes

Upon successful completion of this program, students should be able to:

- Explain the fundamental concepts and techniques of AI.
- Use AI techniques to solve real-world problems across various fields.
- Evaluate the ethical and social implications of AI technologies.
- Communicate technical concepts effectively to develop AI solutions.

Full-Time Academic Plan

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six (6) credits, or 50% of the total credits required, whichever is greater, must be completed at Delaware County Community College.

First Semester		Hours
CS 160	Introduction to Artificial Intelligence (AI)	3
CS 268	AI Ethics and Social Responsibility	3
Hours		6
Second Semester		
Select one course		3
CS 102	Introduction to Python	
CS 113	Database Management Systems ¹	
CS 142	Introduction to Cloud Computing Concepts and Administration using Microsoft Azure	
CS 143	Introduction to Cloud Computing Concepts and Administration using Amazon Web Services	
Hours		3
Total Hours		9

Notes:

¹ CS 113 has prerequisites CS 100* or CS 101*. (*May be taken concurrently)

These prerequisites will increase the number of credits needed to earn the certificate.

Career

Place Here