

CLOUD COMPUTING ANALYST (CERTIFICATE)

Business & Information Technology

Program website (<https://www.harpercollege.edu/academics/business/ai-cloud-computing/cloud-analyst-certificate.php>)

Program Overview

This 18 credit-hour certificate program prepares students to deploy and manage Artificial Intelligence (AI) and data-driven applications using leading cloud-based platforms. Students gain experience with Amazon Web Services (AWS), Microsoft Azure, and Google Cloud to design cloud architectures and manage cloud-based analytics. Emphasis is placed on supporting AI infrastructure and scalable data solutions across multiple industries.

Program Requirements

Code	Title	Hours
AIC 101	Careers in Artificial Intelligence, Machine Learning, and Cloud Computing	2
AIC 230	Fundamentals of Azure	2
AIC 240	Amazon Web Services Cloud	2
CIS 211	IT Project Management	3
NET 105	Information Technology Fundamentals	3
NET 121	Computer Networking	3
NET 280	Cybersecurity Fundamentals	3
Total Hours		18

Program Learning Outcomes

- configure, deploy, and manage AI and data-driven applications using cloud platforms such as AWS, Azure, and Google Cloud.
- implement cloud architectures that support scalable and secure AI infrastructure.
- analyze data flow and storage solutions within cloud environments to optimize performance.
- apply industry best practices for cloud-based analytics, monitoring, and cost management.