

# APPLIED DIGITAL AUTOMATION, CERTIFICATE

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## Contact

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Faculty List (<https://coursecatalog.syracuse.edu/undergraduate/professional-studies/>)

## Description

This program will provide students with an overview of the fundamental concepts in applied digital automation. The program will explore the convergence of digital technologies with traditional automation processes and highlight the impact of this transformation on industry.

This program explores digital automation foundations such as applications and dashboards; predictive analytics; process automation; sensor and IIOT data management; and generative AI.

## Student Learning Outcomes

1. Identify and describe the conceptual and practical significance of digital automation processes, tools, and techniques.
2. Demonstrate the understanding and application of key technologies used in Digital Automation
3. Analyze the application of these technologies in various industrial scenarios and define their impact on productivity, efficiency, and innovation.
4. Analyze future trends in digital automation to assess and evaluate the potential implications on industry and society.

## Program Requirements

Code	Title	Credits
<b>Required Course</b>		
AIA 210	Foundations of Digital Automation	3
Select four of the following:		12
AIA 328	Predictive Analytics for Digital Automation	3
AIA 330	Applications and Dashboards in Digital Automation	3
AIA 340	Process Reengineering using Digital Automation	3
AIA 427	Sensor and IoT Data in Digital Automation	3
AIA 430	Generative AI in Digital Automation	3
<b>Total Credits</b>		<b>30</b>