APPLIED DIGITAL AUTOMATION MINOR

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. The program covers the foundations of digital automation including: applications and dashboards; predictive analytics; process automation; sensor and IIOT data management; and generative AI.

This minor requires completion of 18 credits, with 12 credits at the 300-level or above.

To Declare a College of Professional Studies Minor

1. Check with your home school or college to make sure you have room in your program for the required 18 credits of coursework and that you are in good academic standing.
2. Map out the minor with your academic advisor to ensure you have room within your schedule to complete these 18 credits prior to your anticipated graduation date.
3. Complete the Declaration of Minor form and return it via email to profstudiesminors@syr.edu
4. The minor coordinator will sign and return the form to you.
5. Take the signed form to your home school or college for processing.

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.

Requirements

Code	Title	Credits
Required Course		
AIA 210	Foundations of Digital Automation	3
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
Total Credits		**18**