ARTIFICIAL INTELLIGENCE AUTOMATION (AIA)

AIA 210 Foundations of Digital Automation (3 Credits)
Professional Studies
This course is designed to equip students with an understanding of the fundamental concepts of digital automation. The course will explore the convergence of digital technologies with traditional automation processes and highlight the impact of this transformation on industry.
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

AIA 216 AI Automation Strategies (3 Credits)
Professional Studies
Course is designed to equip students with an understanding of the fundamental concepts of digital automation. Explores the convergence of digital technologies with traditional automation processes, highlights the impact of this transformation on the industry.

AIA 316 AI Semantic Data Storage and Integration (3 Credits)
Professional Studies
Provides in-depth analysis of semantic data storage and integration within the realm of AI. Covers methodologies, tools, and best practices needed to store, manage, and integrate semantic data effectively to enhance business operations and decision-making.
Prereq: AIA 216

AIA 328 Predictive Analytics for Digital Automation (3 Credits)
Professional Studies
The course is designed to provide students with in-depth knowledge and skills in utilizing data analytics techniques applied to Digital Automation.
Prereq: BPS 210
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

AIA 330 Applications and Dashboards in Digital Automation (3 Credits)
Professional Studies
Provides students with theoretical understanding and hands-on experience designing, implementing, and managing applications and dashboards used in digital automation. Course focuses on how to extract, analyze, visualize, and communicate data effectively for decision-making processes in the digital automation context.
Prereq: BPS 210
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

AIA 340 Process Reengineering using Digital Automation (3 Credits)
Professional Studies
The course explores various digital automation technologies, their applications in reengineering business processes, and the practical skills needed to implement these technologies effectively.
Prereq: BPS 210
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

AIA 346 AI Applications and Solution Delivery (3 Credits)
Professional Studies
Course provides an in-depth exploration of AI applications and the process of delivering AI-driven solutions. Covers methodologies, tools, and best practices needed to develop, deploy, and manage AI solutions that add value to business operations.

AIA 426 Applied AI in Business Systems (3 Credits)
Professional Studies
Provides an in-depth exploration of the application of artificial intelligence (AI) within various business systems. Covers methodologies, tools, and best practices needed to develop, implement, and manage AI-driven solutions in real-world business solutions.

AIA 427 Sensor and IoT Data in Digital Automation (3 Credits)
Professional Studies
This course is focused on understanding the principles and applications of sensor technologies and Internet of Things (IoT) in digital automation. Students will learn how to collect and manage sensor data and use IoT platforms to facilitate smart automation processes.
Prereq: BPS 210
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

AIA 430 Generative AI in Digital Automation (3 Credits)
Professional Studies
Explore how Generative AI technologies can be leveraged to enhance organizational performance and efficiency. Learn the principles and practices of applying AI in various business scenarios, understanding its potential and limitations, ethical considerations, and its transformative impact on industries.
Shared Competencies: Critical and Creative Thinking (https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/); Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)