ARTIFICIAL INTELLIGENCE and AUTOMATION PROGRAMMING, AAS (A25590A)

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Note
Upon completion of Artificial Intelligence and Automation Programming, a graduate should be able to:
- Understand the current automation and AI concepts.
- Apply AI techniques for problem-solving
- Use modern tools and best practices in the completion of an AI project from the definition phase through implementation within 16 weeks.

Degree Awarded
The Associate in Applied Science Degree – Artificial Intelligence and Automation Programming is awarded by the College upon completion of this program.

Note
Students will need access to a computer to complete work outside the classroom. In addition to textbooks, students will be required to provide their own portable storage media, for most classes.

For More Information
The Artificial Intelligence and Automation Programming program is in the **Business and Computer Technologies Division**. For more information, call **(919) 739-6879**, or visit us at our web site at **waynecc.edu**.

Admissions
A high school diploma or equivalent is required.

First Step To Enroll:
Call the Admissions and Records Office at **(919) 739-6720**.

COURSE NO.	TITLE	CONTACT HOURS	CREDITS
FIRST SEMESTER			
ACA 111	College Student Success	1	1
CSC 113	AI Fundamentals	4	3
CTI 110	Web, Programming & DB Foundations	4	3
CTS 115	Information System Business Concepts	3	3
MAT 171	Precalculus Algebra	5	4
Total Credit Hours:			**14**
SECOND SEMESTER			
ENG 111	Writing and Inquiry	3	3
CSC 121	Python Programming	5	3
CSC 151	JAVA Programming	5	3
MAT 152	Statistical Methods I	5	4
MAT 263	Brief Calculus	5	4
Total Credit Hours:			**17**
SUMMER SEMESTER			
CTI 120	Network & Security Foundations	4	3
ENG 114	Professional Research and Reporting	3	3
PHI 240	Introduction to Ethics	3	3
PSY 150	General Psychology	3	3
Total Credit Hours:			**12**
THIRD SEMESTER			
CSC 114	Artificial Intelligence I	5	3
CSC 115	Machine Learning I	5	3
CSC 128	Chatbot Programming I	5	3
CSC 221	Advanced Python Programming	4	3
CSC 251	Advanced JAVA Programming	5	3
Total Credit Hours:			**15**
FOURTH SEMESTER			
	Programming Elective*	5	3-4
CSC 124	Intro to Data Science Programming	4	3
CSC 215	Machine Learning II	5	3
CSC 228	Chatbot Programming II	5	3
CTI 115	Computer Systems Foundations	4	3
	Major Elective**		1
Total Credit Hours:			**16-17**
Total Credit Hours:			**74-75**

Electives:

***PROGRAMMING ELECTIVE**
Select one of the following:

ATR 280	Robotic Fundamentals	5	4
CSC 134	C++ Programming	5	3

****MAJOR ELECTIVE**
Select one of the following:

WBL 110	World of Work	1	1
WBL 111	Work-Based Learning I	10	1