IVY TECH
ADVANCED AUTOMATION & ROBOTICS

PROGRAM DESCRIPTION

The AART program offers technology students opportunities to develop and master a wide variety of skills in areas such as: robotic and automation system installation and troubleshooting, preventative and predictive maintenance, PLC and robotic programming, component identification and modification, and continuous system improvement.

ADDITIONAL INFO

GRADE LEVEL: 11TH OR 12TH

LENGTH OF PROGRAM: 1 OR 2 YEARS - 1/2 DAY

HS CREDITS PER SEMESTER: 3

HS CREDITS PER YEAR: 6

PROGRAM WEBSITE: IVYTECH.EDU

OVERVIEW

The Advanced Automation and Robotics (AART) program at Ivy Tech offers hands-on learning coupled with interactive training using state of the art equipment and the latest technologies. Classes are taught by knowledgeable faculty who have experience and knowledge in world-class manufacturing and who are motivated to ensure that the Ivy Tech student experience is the very best.

Students have the opportunity to diversify their educational experiences and skill sets through a variety of course offerings all under one roof at the school of technology. In addition, our technical math and communication courses were developed especially for technical students; no more theory based courses with limited applications to the trades and industry.

Ivy Tech works with many business and industrial partners to offer students work-based learning and internship experiences. Course scheduling is designed to accommodate working students with flexibility for day or night classes. Students earn "stackable" degrees as they progress through the coursework, with multiple opportunities to earn industry recognized certifications which are embedded into the classes.

COURSE INFO - YEAR 1

FALL SEMESTER COURSES:

INDT 113 - Industrial Electrical I
(3 Cr Hrs)   M/W   8:00am-11:45am (1st 8 weeks)

SMDI 110 - Introduction to Industrial Internet of Things
(3 Cr Hrs)   TH   8:00am-11:45am (1st 8 weeks)

SMDI 111 - Tech in Smart Manuf. & Digital Integrations
(3 Cr Hrs)   TH   8:00am-11:45am (2nd 8 weeks)

SPRING SEMESTER COURSES:

INDT 104 - Fluid Power I
(3 Cr Hrs)   T/TH   8:00am-11:50am (1st 8 weeks)

ADMF 222 - Fluid Power II
(3 Cr Hrs)   T/TH   8:00am-11:50am (2nd 8 weeks)

FEES:

Course Fees:
INDT113 - $135 Supplies, consumables, eLearning
INDT104 - $135 Supplies, eLearning
ADMF222 - $135 Supplies, consumables eLearning
Ivy Tech Technology Fees*: $60 per semester
Tuition: Twin Rivers pays UNDERLINE ALL CTE course tuition. Student pays for fees and books.

PROGRAM CHAIR: MOLLY JOSEPH

Phone: 812-298-2335

mjoseph22@ivytech.edu

IVY TECH
ADVANCED AUTOMATION & ROBOTICS
YEAR 2

OUR GRADUATES:

Graduates of the AART program will be able to work as an automated equipment technicians, robotic programmers and/or technicians, and other associated careers in almost any industry. Students earn several certifications that make them potentially valuable to employers including: NOCTI - FANUC Certified Robot Operator-1, OSHA 10 certification, Smart Automation Certification Alliance certifications, and the Siemens Level 1 certification.

DOE CODES:

7108 Principles of Advanced Manufacturing
7103 Advanced Manufacturing Technology
7106 Mechatronics Systems
7224 Industrial Automation and Robotics Capstone

ADDITIONAL INFO

GRADE LEVEL: 11TH OR 12TH

LENGTH OF PROGRAM: 1 OR 2 YEARS - 1/2 DAY

HS CREDITS PER SEMESTER: 3

HS CREDITS PER YEAR: 6

PROGRAM WEBSITE: IVYTECH.EDU

PROGRAM CHAIR: MOLLY JOSEPH

📞 Phone: 812-298-2335

✉ mjoseph22@ivytech.edu

COURSE INFO - YEAR 2

📅 **FALL SEMESTER COURSES:**

ADMF 122 - Industrial Electrical II
(3 Cr Hrs)   M/W   1:00pm-4:45pm (2nd 8 weeks)

📅 **SPRING SEMESTER COURSES:**

INDT 203 - Machine Maintenance & Installation
(3 Cr Hrs)   T/TH   1:00pm-4:45pm (1st 8 weeks)
ADMF 112 - Mechanical Drives
(3 Cr Hrs)   T/TH   1:00pm-4:45pm (2nd 8 weeks)

💲 **FEES:**

Course Fees:
ADMF122 - $135 Supplies, consumables, eLearning
Ivy Tech Technology Fees*: $60 per semester
Tuition: Twin Rivers pays <u>ALL</u> CTE course tuition. Student pays for fees and books.

*FEES ARE APPROXIMATE AND COULD VARY FROM YEAR TO YEAR.