

CAREER & TECHNICAL EDUCATION AREA





IVY TECH

SMART MANUFACTURING & DIGITAL INTEGRATION

PROGRAM DESCRIPTION

Be among the first in the nation to earn this new Associate of Applied Science degree in Smart Manufacturing and Digital Integration (SMDI). Meet the demand for highly skilled technical staff that can integrate physical production and operation with digital technology. The Smart Manufacturing and Digital Integration AAS was developed with Industry 4.0 Smart Automation Certification Alliance (SACA) credentialing embedded into the curriculum. This fully combines the technical and hands-on training needed to stay competitive in this emerging field. The program combines skills from the world of IT, engineering, operations, and informatics to develop systems that improve manufacturing efficiency.

OUR GRADUATES

The SMDI Associate of Applied Science degree program prepares students for careers, career changes and career advancement. This will also prepare students to transfer to four-year institutions. Possible careers for graduates include Mechatronic & Robotic Engineering, Intelligent Manufacturing Specialist, Automation & Systems Integration at companies such as Lippert Components and Endress+Hauser.

DOE CODES:

7220 Principles of Industry 4.0 - Smart Manufacturing 4728 Robotics Design and Innovation 7100 Smart Manufacturing Systems

PROGRAM CHAIR: MOLLY JOSEPH

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ADDITIONAL INFO

GRADE LEVEL: 12TH

LENGTH OF PROGRAM: 1 YEAR - 1/2 DAY

HS CREDITS PER SEMESTER: 3

HS CREDITS PER YEAR: 6

PROGRAM WEBSITE: IVYTECH.EDU

COURSE INFO

FALL SEMESTER COURSES:

SMDI140 - Mechanical Systems in MFG

(3 Cr Hrs) T/TH 1:00pm-4:45pm (1st 8 weeks)

SMDI130 - Electrical Systems for Smart MFG

(3 Cr Hrs) T/TH 1:00pm-4:45pm (2nd 8 weeks)

SPRING SEMESTER COURSES:

ADMF116 - Industrial Robotics I

(3 Cr Hrs) M/W 1:00pm-4:45pm (1st 8 weeks)

INDT206 - Industrial Robotics II

(3 Cr Hrs) M/W 1:00pm-4:45pm (2nd 8 weeks)

FEES:

Course Fees:

Fall Semester - \$180

Spring Semester - \$355

Tuition: Twin Rivers pays <u>ALL</u> CTE course tuition. Student

pays for fees and books.