

Advanced Manufacturing – Industrial Systems – Certificate (ISAM.CERT)

The Industrial Systems Certificate builds on the Certified Production Technician certificate by focusing on the processes that drive modern industrial facilities. Classes focus on robotics, automation, and the Industrial Internet of Things. Students will learn how to program robots and machines and build industrial communication networks that gather and manage data. Additionally, students will earn credentials certified by FANUC Robotics, Rockwell Automation, and the Smart Automation Certification Alliance.

Minimum credits: 22

Minimum cumulative GPA: 2.0

Minimum grade in all courses: 2.0

Minimum Jackson College credits: 15

INDUSTRIAL SYSTEMS CORE REQUIREMENTS (22 CREDITS)

Take the following:

**If you choose to take CAD 151, you do not need to take CAD 172.*

CAD	151	AutoCAD I
CAD	172	SolidWorks II
ELT	220	Industrial Motion Control
ELT	260	Basic Programmable Controllers
ELT	261	Advanced PLC
MFG	211	Robotics Operation and Programming
MFG	216	Robotics Applications and Machine Vision
MFG	262	Introduction to IIOT, Industrial Internet of Things