

# Associate of Applied Science: Advanced Automation and Manufacturing

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(2 Years)

## Required Courses:

Code	Title	Credits
ADMT 0101	Introduction to Machining	3
ADMT 0102	Electronics Orientation	3
ADMT 0103	Introduction to Advanced Manufacturing Welding Processes I	3
ADMT/ESET 0162	Industrial Health and Safety	2
ADMT/INST 0220	Introduction to Programmable Logic Controllers	3
ADMT/MACH 0221	CAD and CAM I Theory	3
ADMT/ESET 0242	Practical Process Measurements and Control	2
ADMT/ESET 0243	Fluid and Pneumatic Power	2
ADMT/ESET 0243L	Fluid and Pneumatic Power Lab	2
ADMT 0244	Advanced Manufacturing Welding Processes II	3
ADMT 0245	Lean and Six Sigma	3
ADMT/ESET 0246	Materials and Metallurgy	2
General Education courses <sup>1</sup>		15

<sup>1</sup> See General Education Requirements (<http://coursecat.isu.edu/undergraduate/technology>) (minimum 15 credits) for A.A.S. Degree at the start of the College of Technology section of the catalog.

## Select one of the following options:

### Option 1: Electrical and Instrumentation Specialization

Code	Title	Credits
ESET 0122	Electrical Systems and Motor Control Theory	3
ESET 0122L	Electrical Systems and Motor Control Theory Laboratory	1
ESET 0222	Process Control Theory	3
ESET 0226	Process Control Devices Laboratory	1
ESET 0231	Microcontrollers	2
ESET 0231L	Microcontrollers Laboratory	1
ESET 0233	Electrical Power Systems	3
ESET 0233L	Electrical Power Systems Laboratory	3

### Option 2: Welding Specialization

Code	Title	Credits
WELD 0142	Blueprint Reading for Welders	2
WELD 0232	Welding Practice IV	13

**Total Hours for the AAS:**

**61 or 62**