

# Industrial Automation Technology AAS Degree Courses

<b>Award</b>	Associate of Applied Science (AAS)
<b>Credits</b>	66
<b>Program Start</b>	Fall
<b>Time to Complete</b>	2 years

## 2022–2023 Suggested Sequence of Study



**The following suggested sequence of study is for new full-time students starting the program Fall 2022.** Part-time students should visit with a program advisor for a modified sequence of study.



**When registering for classes refer to Self-Service > Student Planning to view your specific program requirements, your progress, and ensure proper registration.**



Courses are subject to change.

◆ General education course.

▣ Non-transfer general education course.

▶ Course has a prerequisite and/or corequisite.

O Course meets 100% online.

E Course meets face-to-face after 5:00pm.

**8WK1** Course meets the first 8 weeks of the term.

**8WK2** Course meets the second 8 weeks of the term.

**Term 1**

ELT-139	Electrical Systems ►	8WK1	3
EGT-140	Fluid Power	8WK2	2
ELT-239	Advanced Electrical Systems ►	8WK2	3
ELT-315	Digital Logic for Industrial Applications ► -OR-		2
EGT-420	PLTW - Digital Electronics		3
IND-111	Industrial Safety Mechanical Systems		1
IND-153	Industrial Mechanics		3
MAT-772	Applied Math -OR-		3
	Math Elective		3
<b>Total Credits 17</b>			

**Term 2**

ELT-215	Motors and Controls ►	8WK1	2
ELT-736	Instrumentation and Control ►	8WK1	2
ELT-234	PLC Programming ►	8WK2	2
WEL-339	Electromechanical Maintenance	8WK2	3
EGT-149	Fluid Power Systems II ►		3
MFG-193	Machine Shop Processes		3
PSY-102	Human and Work Relations -OR-	O E	3 ◆
PSY-111	Introduction to Psychology -OR-	O E	3 ◆
SOC-110	Introduction to Sociology	O E	3 ◆
<b>Total Credits 18</b>			

**Term 3**

EGT-154	Pneumatics	8WK1	2
EGT-212	Hydraulics Troubleshooting ►	8WK1	2
ELT-532	Semiconductors for Industrial Applications ►	8WK1	2
ELT-216	DC Controls Circuits ►	8WK2	2
ELT-240	PLCs II ►	8WK2	2
ELT-120	Schematics for Electromechanical Techs ►		3
SPC-101	Fundamentals of Oral Communication		3
<b>Total Credits 16</b>			

**Term 4**

ELT-133	Electric Motor Drives	8WK1	2	
ELT-245	PLCs III ►	8WK1	2	
MFG-366	General CNC Mill Maintenance	8WK1	2	
ATR-145	Applied Industrial Robotics	8WK2	2	
ELT-444	Industrial Networking ►	8WK2	2	
ELT-818	Electrical Troubleshooting ►	8WK2	2	
COM-781	Written Communication in the Workplace ► -OR-	O E	3	◆
ENG-105	Composition I ►	O E	3	◆

**Total Credits 15****Math Electives**

MAT-102	Intermediate Algebra	4
MAT-110	Math for Liberal Arts ►	3
MAT-121	College Algebra ►	4
MAT-128	Precalculus ►	4
MAT-134	Trigonometry and Analytic Geometry ►	3
MAT-156	Statistics ►	3
MAT-210	Calculus I ►	4