

INDUSTRIAL AUTOMATION & ROBOTICS

Associate in Applied Science

Prescribed Technical Program	52
General Education	15-16
Digital Literacy	
Total Degree Credits	67-68

Prescribed Technical Program Requirements

ESRE 210	Electrical and Safe Work Practices	3
ESRE 216	Mechanical Drive Systems	4
ESRE 213	Hydraulic Fundamentals	3
ESRE 218	Distributed Power Systems	4
ENRT 224	Automation and Control	3
ENRT 221	Applied Electronics	3
ESRE 226	Analog PLCs	3
ESRE 228	Technician Applications and Troubleshooting	4
CAD 201	Fundamentals of Graphical Communication	3
ENRT 105	Safety, Health and Environment	3
ENRT 240	Industrial SCADA	3
INAU 210	Automation Systems	3
INAU 230	Industrial Robotics	3
INAU 220	Machine Vision and Identification	3
INAU 240	Integrated Systems, Design and Setup	3
INAU 245	Integrated Systems, Troubleshooting and Quality Control	4
	Total Credits	52

General Education Requirements

<i>Arts & Humanities/Social & Behavioral Sciences</i>		
Select one of the following recommended courses:		3
HIST 103	United States to 1877	
ECON 201	Principles of Microeconomics	
PSYC 111	Introduction to Psychology	
SOC 110	Introduction to Sociology	
<i>Written or Oral Communications</i>		
ENGL 110	College Composition I	3
Select one of the following:		3
COMM 110	Fundamentals of Public Speaking	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
<i>Business, Math, Science, & Technology (Two Areas of Study)</i>		
Select one of the following recommended courses:		3-4
CSCI 101	Introduction to Computers ¹	
CIS 147	Principles of Information Security ¹	
CIS 164	Networking Fundamentals I	
Select one of the following recommended courses:		3
MATH 137	Applied Algebra	
MATH 210	Elementary Statistics	
	Total Credits	15-16

Digital Literacy Requirements

Select one of the following:

CSCI 101 Introduction to Computers ¹

CIS 147 Principles of Information Security ¹

BSC Approved Training Course

NDUS Institution Approved Training Course

NDUS Institution Designated Digital Literacy Course

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CSCI 101, CIS 147 or courses transferred in from another NDUS Institution that are listed as both general education and digital literacy may satisfy both requirements upon successful completion.

College Degree & Digital Literacy Requirements

General Education & Diversity Course Matrix Requirements