

 Stark State COLLEGE	ONE-YEAR CERTIFICATE AUTOMATION AND ROBOTICS TECHNOLOGY	2023-24 Catalog Effective Summer 2023
		4555

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

Business, Engineering, and Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT121	Industrial Internet of Things (IIoT)	3		
AIT139	Introduction to Robotics	2		
AIT220	Industrial Robotics	4		
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135	
EET227	PLCs and Industrial Controls I	3	EST230 or EET120	
TECHNICAL ELECTIVES: 3 credit hours minimum				
MST221	Mechanical Drive Components	3		
EET228	PLCs and Industrial Controls II	3	EET227	
IET223	Computer Numerical Control	4		
Total		19-20		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MST121 or DET125	Blueprint Reading or Basic AutoCAD	2 or 3		
CSE122	Programming Logic & Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 or Proficiency	
Total		11-12		
TOTAL CREDIT HOURS		30-32		

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

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Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
MTH135	Precalculus [^] – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	MTH025 or Proficiency
AIT139	Introduction to Robotics	2	
AIT121	Industrial Internet of Things (IIoT)	<u>3</u>	
		11	
 <u>Second Semester</u>			
AIT220	Industrial Robotics	4	
MST121	Blueprint Reading	2	
or	or	or	
DET125	Basic AutoCAD	3	
EET120	DC Circuit Analysis	<u>4</u>	Pre-Co-MTH125 or Pre-Co-MTH135
		10-11	
 <u>Third Semester</u>			
EET227	PLCs and Industrial Controls I	3	EST230 or EET120
CSE122	Programming Logic & Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
<i>Technical Elective^l</i>		<u>3-4</u>	<i>Check for prerequisites</i>
		9-10	
	TOTAL CREDITS	30-32	

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

^lTechnical Electives: EET228, IET223, MST221