Stark State COLLEGE MAP MY ACADEMIC PLAN	**ONE-YEAR CERTIFICATE** # AUTOMATION AND ROBOTICS TECHNOLOGY *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.*	**2024-25 Catalog** Effective Summer 2024 **4555**

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	*Take first semester*	
MST121 **or** DET125	Blueprint Reading **or** Basic AutoCAD	2 **or** 3		
CSE122	Programming Logic and 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.

Students completing this degree may be eligible to also receive an Industrial Technology – Automation and Robotics Specialist Career Enhancement Certificate (4554).
The classes in this certificate also apply toward the completion of an Automation and Robotics Technology Degree (4556).

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students who plan to finish in four semesters.

First Semester		Credit Hours	Pre- and Co-requisite
SSC101	Student Success Seminar^^	1	*Take first semester*
AIT121	Industrial Internet of Things (IIoT)	3	
MTH135	Precalculus^ – *A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.*	5	MTH025 **or** Proficiency
		9	
Second Semester			
AIT139	Introduction to Robotics	2	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) **and** (ITD100 or Proficiency)
MST121 **or** DET125	Blueprint Reading **or** Basic AutoCAD	2 **or** 3	
		7-8	
Third Semester			
AIT220	Industrial Robotics	4	
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 **or** Pre-Co-MTH135
		8	
Fourth Semester			
EET227	PLCs and Industrial Controls I	3	EST230 **or** EET120
Technical Elective[1]		3-4	*Check for prerequisites*
		6-7	
	TOTAL CREDITS	**30-32**	

^Based on SSC placement scores.

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

[1]Technical Electives: EET228, IET223, MST221