Robotics, Automation and Mechatronics Technology

(Associate in Applied Science; ***General Technician*** *)*

2025-2026 Academic Year

Suggested Sequence of Study (Standard)

Please Note: *This is a suggested sequence of study. Course sequencing may be impacted by transfer credits, unsuccessful course completion, course offerings and various other factors. Please meet with your Academic Advisor to ensure correct course enrollment and sequencing each semester.*

Developmental Credits Needed:

Writing _____ ASC 85 _____ ASC 88

Math _____ ASC 90 _____ ASC 91| 92 |93|95 (*Take appropriate co-req*)

Placement in Mathematics and English is according to NDSCS Course Placement Procedure.

If you are planning to transfer, please follow the Transfer Mathematics placement and courses. NOTE: ENGL 105 is not considered a transfer

	FIRST SEMESTER			
	Subject/Catalog	**Course Title**	**Credits**	**Comments:**
	RAMT 101	Science of Success	1	*First 8-weeks*
	RAMT 102	Applied DC Theory	4	*First 8-weeks*
	RAMT 103	Applied AC Theory	4	*Second 8-weeks*
	RAMT 107	Mechanical Drives and Maintenance I	2	*First 8-weeks*
	RAMT 137	Print Reading, Drafting and Safety	2	*Second 8-weeks*
	MATH 132	Technical Algebra I	2	*First 8-weeks*
	MATH 136	Technical Trigonometry	2	*Second 8-weeks*
		Total Credits:	**17**	

	SECOND SEMESTER			
	Subject/Catalog	**Course Title**	**Credits**	**Comments:**
	ECAL 241	Basic Motor Controls Lab	3	*First 8-weeks*
	RAMT 109	Mechanical Drives and Maintenance II	2	*Second 8-weeks*
	RAMT 120	3D Modeling and Design	3	*First 8-weeks*
	RAMT 124	Robotics Systems I	3	*Second 8-weeks*
	RAMT 125	Digital and Pneumatic Systems	2	*First 8-weeks*
	RAMT 143	PLC's I	3	*Second 8-weeks*
	MATH 134	Technical Algebra II	2	*First 8-weeks*
		Total Credits:	**18**	

	SUMMER SEMESTER			
	Subject/Catalog	**Course Title**	**Credits**	**Comments:**
	RAMT 297	Internship	4	*Full Semester*
		Total Credits:	**4**	

	THIRD SEMESTER			
	Subject/Catalog	**Course Title**	**Credits**	**Comments:**
	RAMT 202	PLC's II	3	*Second 8-weeks*
	RAMT 203	Machine Safety and Panel Building	3	*First 8-weeks*
	RAMT 221	Robotics II	3	*Second 8-weeks*
	RAMT 222	Solid State Systems I	2	*First 8-weeks*
	RAMT 223	Solid State Systems II	2	*Second 8-weeks*
	CIS 101	Digital Literacy	2	*First 8-weeks*
	PSYC 100	Human Relations in Organizations	2	*First 8-weeks*
		Total Credits:	**17**	

	FOURTH SEMESTER			
	Subject/Catalog	**Course Title**	**Credits**	**Comments:**
	RAMT 208	Information Technology for Technicians	2	*First 8-weeks*
	RAMT 240	Principles of Project Management	2	*First 8-weeks*
	RAMT 246	Quality Assurance Standards and Methods	3	*Second 8-weeks*
	RAMT 250	Drives and Servo Systems	2	*First 8-weeks*
	RAMT 294	Capstone Project	2	*Second 8-weeks*
	*Elective	ENGL/COMM Elective	3	*Second 8-weeks - ENGL 105 (3cr) is recommended*
	*Elective	Wellness Elective	2	*First 8-weeks - HPER 210 (2 cr) is recommended*
		Total Credits:	**16**	

TOTAL REQUIRED CREDITS FOR DEGREE: 72

L. J. - March 2025