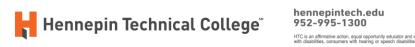
Mechatronics (BP/EP) Associate in Applied Science Degree

Semester Sequence

Offered at Brooklyn Park and Eden Prairie

First Semester		
ARET1126	Mechanical Power Transmission	3
ARET1161	Mechatronic Systems	3
ARET1175 ARET1200	Industrial Electricity and Electronics I Introduction to Robotics	3 2
MATH1150	Applications of Quantitative Reasoning or	3
MATH1400	College Algebra	4
	or Any course from MnTC Goal Area 4	
PHIL1100	Critical Thinking for College Success	3
	Or Any course from MnTC Goal Area 2	
	Any course from MnTC Goal Area 2	
Total Credits 17		
Second Semester	M	_
ARET1130 ARET1140	Maintenance Operations Computer Integrated Manufacturing	2 3
ARET1155	Automation Controls	3
ARET1180	Industrial Electricity and Electronics II SOLIDWORKS I	3 4
ENGC1250	SOLIDWORKST	4
ENGL1070	Technical Writing or	3
ENGL1100	Writing and Research	4
Total Credits 18		
Summer Semester PHYS1005		
	Introductory Physics I or	3
	Any course from MnTC Goal Area 3	
	General Education Electives	3
Total Credits 6		
Third Semester		
ARET1165	Vision Systems for QA/SPC	3
ARET1185 ARET1190	Sensor Applications Programmable Logic Controllers	2
ARET2105	Fluid Power Motion Control	2
	Technical Studies Electives	6
Total Credits 16		
Fourth Semester		
ARET1170	Troubleshooting Mechatronic Systems	3
ARET2101 ARET2111	Advanced Automation Controls Advanced Programmable Logic Controllers	3
ANLIZIII	Advanced i Togrammable Logic Controllers	3





Brooklyn Park Campus 9000 Brooklyn Boulevard Brooklyn Park, 55445 Eden Prairie, MN 55347



Academic Planning Guide ARET2200 **FANUC Robotics Operations** ARET2250 **FANUC Vision Systems** 1 3 **Technical Studies Electives**

Total Credits 15

General Education Electives

Choose three credits from Hennepin Technical College's Minnesota Transfer Curriculum (MnTC) general education courses.

Choose a Total of: 3 Credits

Technical Studies Electives

Any Automation Robotics Engineering Technology (ARET), Center for Manufacturing and Applied Engineering (CMAE), Fluid Power Engineering and Motion Control (FLPW), Machine Tool Technology (MACH), or Welding and Metal Fabrication (WLDG) course that is not required for this award may be used as an elective.

Choose a Total of: 9 Credits

Graduation (72 Credits)

Semester listings reflect the recommended sequence. Due to circumstances beyond our control, the information herein is subject to change without notice.

4/15/2024 : BP / EP 4013





