

Mechatronics (EP) Diploma

Semester Sequence

Offered at Eden Prairie Only

First Semester

ARET1126	Mechanical Power Transmission	3
ARET1161	Mechatronic Systems	3
ARET1175	Industrial Electricity and Electronics I	3
ARET1200	Introduction to Robotics	2
MATH2050	Applications of Quantitative Reasoning or	3
MATH2200	College Algebra or Any course from MnTC Goal Area 4	4

Total Credits 14

Second Semester

ARET1130	Maintenance Operations	2
ARET1155	Automation Controls	3
ARET1180	Industrial Electricity and Electronics II	3
ENGC1250	SOLIDWORKS I	4
ENGL2125	Technical Writing or Any course from MnTC Goal Area 1	3

Total Credits 15

Third Semester

ARET1165	Vision Systems for QA/SPC	3
ARET1185	Sensor Applications	2
ARET1190	Programmable Logic Controllers	3
ARET2105	Fluid Power Motion Control	2
FLPW1101	Fluid Power Technology I	3
MACH1056	Blueprint Reading I	3

Total Credits 16

Fourth Semester

ARET1170	Troubleshooting Mechatronic Systems	3
ARET2101	Advanced Automation Controls	3
ARET2111	Advanced Programmable Logic Controllers	3
ARET2200	FANUC Robotics Operations	2
ARET2250	FANUC Vision Systems	1
MACH1205	Machine Tool Technology	3

Total Credits 15

MnTC Goal Area 1

A complete list of MnTC courses and Goal Areas that can be used to meet General Education requirements can be found at www.hennepintech.edu. The same course cannot satisfy more than one MnTC Goal Area requirement.

COMM2020	Intercultural Communication	3
COMM2050	Interpersonal Communication	3
COMM2060	Small Group Communication	3
COMM2130	Public Speaking	3
ENGL2001	Workplace Correspondence	2

ENGL2050	Short Form Composition and Reporting	4
ENGL2121	Writing and Research	4
ENGL2125	Technical Writing	3
ENGL2130	Introduction to Creative Writing	3

MnTC Goal Area 4

MATH2050	Applications of Quantitative Reasoning	3
MATH2150	Introduction to Statistics	3
MATH2200	College Algebra	4
PHIL2000	Introduction to Logic	3

Graduation (60 Credits)

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

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