Controls Engineering Technician (BP/EP) Diploma

Semester Sequence

Offered at Brooklyn Park and Eden Prairie

First Semester

ARET1126	Mechanical Power Transmission	3
ARET1175	Industrial Electricity and Electronics I	3
ARET1190	Programmable Logic Controllers	3
ARET1200	Introduction to Robotics	2
MATH1150	Applications of Quantitative Reasoning	3
	or	
MATH1400	College Algebra	4
	or	
	Any course from MnTC Goal Area 4	

Total Credits 14

Second Semester

ARET1140	Computer Integrated Manufacturing	3
ARET1155	Automation Controls	3
ARET1180	Industrial Electricity and Electronics II	3
ARET2111	Advanced Programmable Logic Controllers	3
ENGL1070	Technical Writing	3
	or	
	Any course from MnTC Goal Area 1	

Total Credits 15

Third Semester

ARET1161	Mechatronic Systems	3
ARET1165	Vision Systems for QA/SPC	3
ARET1185	Sensor Applications	2
ARET2500	Industrial Networks	2
ARET2560	Instrumentation and Process Control I	3
ENGC1250	SOLIDWORKS I	4

Total Credits 17

Fourth Semester

ARET1170	Troubleshooting Mechatronic Systems	3
ARET2101	Advanced Automation Controls	3
ARET2200	FANUC Robotics Operations	2
ARET2250	FANUC Vision Systems	1
ARET2540	Project Management for Manufacturing	2
ARET2580	Instrumentation and Process Control II	3

Total Credits 14

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.

COMM1200	Intercultural Communication	3
COMM1250	Interpersonal Communication	3
COMM1260	Small Group Communication	3
COMM1280	Public Speaking	3
ENGL1070	Technical Writing	3

ENGL1100	Writing and Research	4
ENGL1250	Short Form Composition and Reporting	4
ENGL1300	Introduction to Creative Writing	3

MnTC Goal Area 4

MATH1150	Applications of Quantitative Reasoning	3
MATH1250	Introduction to Statistics	3
MATH1400	College Algebra	4
PHIL1000	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.

3/27/2023 : BP 4010 / EP 4011