

Automated Machinery Repair Technician (BP/EP) Associate in Applied Science Degree

Semester Sequence

Offered at Brooklyn Park and Eden Prairie

First Semester

ARET1126	Mechanical Power Transmission	3
ARET1175	Industrial Electricity and Electronics I	3
ARET1200	Introduction to Robotics	2
ARET2105	Fluid Power Motion Control	2
MACH1056	Blueprint Reading I	3
MATH1150	Applications of Quantitative Reasoning or	3
MATH1400	College Algebra or Any course from MnTC Goal Area 4	4

Total Credits 16

Second Semester

ARET1130	Maintenance Operations	2
ARET1155	Automation Controls	3
ARET1180	Industrial Electricity and Electronics II	3
MACH1205	Machine Tool Technology	3
ENGL1070	Technical Writing or	3
ENGL1100	Writing and Research	4

Total Credits 14

Third Semester

ARET1190	Programmable Logic Controllers	3
MACH1110	Turning Technology I	3
MACH1125	Milling Technology I	3
PHIL1100	Critical Thinking for College Success or Any course from MnTC Goal Area 2	3
PHYS1005	Introductory Physics I or Any course from MnTC Goal Area 3	3

Total Credits 15

Fourth Semester

ARET1170	Troubleshooting Mechatronic Systems	3
ARET2101	Advanced Automation Controls or	3
ARET2111	Advanced Programmable Logic Controllers	3
ARET2200	FANUC Robotics Operations	2

ARET1165	Vision Systems for QA/SPC	3
ARET2250	or FANUC Vision Systems	1
MACH2400	CNC Setup and Operation	3

Total Credits 15

General Education Electives

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.

Choose a Total of: 3 Credits

MnTC Goal Area 2

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.

BIOL1000	Biology in Society	4
BIOL1100	Nutrition and Health	3
BIOL1300	Introduction to Forensic Science	3
BIOL1400	Human Biology	4
BIOL2005	General Biology I	4
BIOL2125	Anatomy and Physiology I	4
BIOL2225	Anatomy and Physiology II	4
BIOL2235	Microbiology	4
COMM1260	Small Group Communication	3
MATH1150	Applications of Quantitative Reasoning	3
PHIL1100	Critical Thinking for College Success	3
PHYS1005	Introductory Physics I	3
PHYS1010	Introductory Physics II	3
SOCI1100	Introduction to Sociology	3

MnTC Goal Area 3

BIOL1000	Biology in Society	4
BIOL1300	Introduction to Forensic Science	3
BIOL1400	Human Biology	4
BIOL2005	General Biology I	4
BIOL2125	Anatomy and Physiology I	4
BIOL2225	Anatomy and Physiology II	4
BIOL2235	Microbiology	4
CHEM1000	Introduction to Chemistry	4
CHEM1100	General, Organic, and Biological Chemistry Foundations	4
PHYS1005	Introductory Physics I	3
PHYS1010	Introductory Physics II	3
PHYS2005	College Physics I	4
PHYS2010	College Physics II	4

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 4014 / EP 4015