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

Semester Sequence

Offered at Brooklyn Park and Eden Prairie

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First Semester ARET1126 ARET1175 ARET1200 ARET2105 MACH1056	Mechanical Power Transmission Industrial Electricity and Electronics I Introduction to Robotics Fluid Power Motion Control Blueprint Reading I	3 3 2 2 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 ARET1155 ARET1180 MACH1205	Maintenance Operations Automation Controls Industrial Electricity and Electronics II Machine Tool Technology	2 3 3 3
ENGL1070	Technical Writing	3
ENGL1100	or Writing and Research	4
	5	
Total Credits 14	ŭ	
	Programmable Logic Controllers Turning Technology I Milling Technology I	3 3 3
Total Credits 14 Third Semester ARET1190 MACH1110	Programmable Logic Controllers Turning Technology I	3
Total Credits 14 Third Semester ARET1190 MACH1110 MACH1125	Programmable Logic Controllers Turning Technology I Milling Technology I Critical Thinking for College Success or	3 3
Total Credits 14 Third Semester ARET1190 MACH1110 MACH1125 PHIL1100	Programmable Logic Controllers Turning Technology I Milling Technology I Critical Thinking for College Success or Any course from MnTC Goal Area 2 Introductory Physics I or	3 3 3
Total Credits 14 Third Semester ARET1190 MACH1110 MACH1125 PHIL1100 PHYS1005	Programmable Logic Controllers Turning Technology I Milling Technology I Critical Thinking for College Success or Any course from MnTC Goal Area 2 Introductory Physics I or	3 3 3
Total Credits 14 Third Semester ARET1190 MACH1110 MACH1125 PHIL1100 PHYS1005 Total Credits 15 Fourth Semester	Programmable Logic Controllers Turning Technology I Milling Technology I Critical Thinking for College Success or Any course from MnTC Goal Area 2 Introductory Physics I or Any course from MnTC Goal Area 3 Troubleshooting Mechatronic Systems Advanced Automation Controls	3 3 3 3
Total Credits 14 Third Semester ARET1190 MACH1110 MACH1125 PHIL1100 PHYS1005 Total Credits 15 Fourth Semester ARET1170	Programmable Logic Controllers Turning Technology I Milling Technology I Critical Thinking for College Success or Any course from MnTC Goal Area 2 Introductory Physics I or Any course from MnTC Goal Area 3 Troubleshooting Mechatronic Systems	3 3 3 3 3

Hennepin Technical College"



Academic Planning Guide		2024	
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.

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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 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	4
	Foundations	
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.

4/15/2024 : BP 4014 / EP 4015



