

Mechatronics (EP) Associate in Applied Science Degree

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
PHIL2100	Critical Thinking for College Success or Any course from MnTC Goal Area 2	3

Total Credits 17

Second Semester

ARET1130	Maintenance Operations	2
ARET1140	Computer Integrated Manufacturing	3
ARET1155	Automation Controls	3
ARET1180	Industrial Electricity and Electronics II	3
ENGC1250	SOLIDWORKS I	4
ENGL2121	Writing and Research or	4
ENGL2125	Technical Writing	3

Total Credits 18

Summer Semester

PHYS2001	Introductory Physics or Any course from MnTC Goal Area 3	3
	General Education Electives	3

Total Credits 6

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

Graduation (72 Credits)

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

5/14/2021 : BP / EP 4013