



AAS

Apprenticeship  
2020-2021

Millwright, Machinist, Fabricator/Welder  
91 credits

Date of update: 4/28/2020

Program Coordinator/Advisor:

Tracy Placido

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Program Prerequisites: See requirements needed for first term classes.

Possible Term Plan	Course Number	Course Number/Title	Credits	Terms	Prerequisites/Notes
Sequence	APR 140	Beginning Welding for Apprentices	1	F,W,S	None
	APR 111	Machine Shop Practices I	3	F,W,S	MTH 052 or MTH 060
	APR 121	Hydraulics I	3	F	MTH 052 or MTH 060
	APR 131	Basic Metallurgy	3	F	None
	WR 115	Introduction to Expository Writing (or higher)	4	F,W,S,Su	WR 095 with a grade of C or better or placement by approved measure; RD080 with a grade of C or better or placement by approved measure.
	Choose	Human Relations (from approved list, see below)	3	F,W,S	None
	INDU 93	Credit for Prior Certification (Journeyman Card)	22	F,W,S	None

Related Instruction	MTH 065	Elementary Algebra (or higher)	4	F, W, S, Su	MTH 060 with a grade of C or better, placement by approved measure, or instructor permission
	WR 121	Academic Composition (or higher)	4	F, W, S, Su	WR 115, RD 090 each with a grade of C or better, or appropriate placement test scores or placement by multiple measures; and basic computer word processing skills
	Choose	Human Relations (from approved list, see below)	3	F,W,S	None

Maintenance Millwright	APR 120	Industrial Safety	3	F,W,S	None
	ARP 130	Mechanical Principles & Drive Designs	3	F,W,S	None
	APR 141	Intermediate Welding for Apprentices	1	F,W,S	APR 140
	APR 228	Rigging Fundamentals	3	F,W,S	MTH 052 or MTH 060
	APR 229	Basic Pneumatics	3	F,W,S	MTH 052 or MTH 060
	APR 115	Computer Aided Drafting I	3	F	None
	APR 112	Machine Shop Practices II	3	F,W,S	APR 111
	APR 122	Hydraulics II	3	W	APR 121
	APR 123	Hydraulics III	3	S	APR 122
	APR 145	Blueprint Reading and Sketching	3	W	None
	Choose	Electives (See list below)	14	F,W,S	
MTH075	Applied Geometry	3	S	MTH 052 or MTH 060 with a grade of C or better, placement by approved measure, or instructor permission	

	APR 120	Industrial Safety	3	F,W,S	None
	APR 130	Mechanical Principles & Drive Designs	3	F,W,S	None
	APR 141	Intermediate Welding for Apprentices	1	F,W,S	APR 140
	APR 228	Rigging Fundamentals	3	F,W,S	MTH 052 or MTH 060

Machinist	APR 115	Computer Aided Drafting I	3	F	None
	APR 112	Machine Shop Practices II	3	F,W,S	APR 111
	APR 113	Machine Shop Practices III	3	F,W,S	APR 112
	APR 145	Blueprint Reading and Sketching	3	W	None
	CIS 120	Intro to Computer Information Systems	4-Jan	F,W,S,Su	CIS100 with a grade of C or better, computer placement test score or instructor approval
	MTH 075	Applied Geometry	3	S	MTH052 or MTH060 with a grade of C or better, placement by approved measure, or instructor permission
	Choose	Electives (See list below)	16	F,W,S	None

Fabricator/Welder	APR 120	Industrial Safety	3	F,W,S	None
	APR 228	Rigging Fundamentals	3	F,W,S	MTH 052 or MTH 060
	APR 145	Blueprint Reading and Sketching	3	W	None
	APR 115	Computer Aided Drafting	3	F	None
	APR 112	Machine Shop Practices II	3	F,W,S	APR 111
	APR 122	Hydraulics II	3	W	APR 121
	APR 130	Mechanical Principles & Drive Designs	3	F,W,S	None
	APR 141	Intermediate Welding for Apprentices	1	F,W,S	APR 140
	APR 229	Basic Pneumatics	3	F,W,S	MTH 052 or MTH 060
	Choose	Electives	25	F,W,S	None

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Recommended Electives	APR 112	Machine Shop Practices 2	3	F,W,S	APR 111
	APR 113	Machine Shop Practices 3	3	F,W,S	APR 112
	APR 122	Hydraulics 2	3	W	APR 121
	APR 123	Hydraulics 3	3	S	APR 122
	APR 142	Advanced Welding for Apprentices	1	F,W,S	APR 141
	APR 151	Basic Electronics & Electricity	4	F	MTH 053 or MTH 060
	APR 153	Electrical Applications & Techniques	3	F	MTH 053 or MTH 060
	APR 165	AC Electronics & Electricity	4	S	APR 151
	APR 259	Solid States & Digital Applications	4	S	APR 165
	BA 101	Introduction to Business	4	F,W,S,Su	None
	CIS 120	Intro to Computer Information Systems	4	F,W,S,Su	CIS 100 with a grade of C or better, placement by approved measure, or instructor permission
	CIS 125D	Microcomputers Applications - Database	3	S	CIS 120 or instructor approval
	CIS 125S	Computer Applications - Spreadsheets	3	W	CIS 120 or instructor approval
	HPE 295	Wellness & Health Assessment	3	F,W,S,Su	
	SDP 109	Elements of Supervision	3	F,S	

	Course Number	Course Number/Title	Credits	Terms	Prerequisites/Notes
Recommended Human Relations Course	PSY 101	Psychology of Human Relations	3	F,W,S, Su	
	SDP 113	Human Relations/Supervisors	3	F	
	SP 105	Listening	3	W, S, Su	WR 95
	SP 218	Interpersonal Communication	3	W,S	WR 95, RD 90

	SP 219	Small Group Discussion	3	W,S	WR 95, RD 90
Advising Notes	Scheduling requirements may prevent all courses from being offered every term. Please see an advisor for a degree planning worksheet for this program.				