



Precision Machining Technology 2024 – 2025 Associate of Applied Science Degree/Certificate Plan

A minimum 2.0 cumulative GPA is required for the degree. The residency requirement specifies that a minimum of 15 credit hours must be completed at Jefferson College. Courses with similar content may not both apply towards graduation. The computer literacy requirement must be completed with a grade of “C” or better. See a list of course options for each general education and institutional degree requirement below the degree plan. For a list of MOTR approved general education courses, visit the [MOTR webpage](#). This plan is not a substitute for meeting with an [Advising Specialist](#).

	Course Titles and General Education/Institutional Requirements	Course Number	Completed/ In Progress	Future	C1+	C2+	Degree+
Core Requirements	Introduction to Machining Procedures (3)	PMT105			X	X	X
	CNC Programming I (3)	PMT125			X	X	X
	Machining Procedures (3)	PMT150				X	X
	CNC Programming II (5)	PMT155				X	X
	Advanced Machining Procedures (3)	PMT205				X	X
	Quality Assurance (3)	PMT210			X	X	X
	Advanced CNC Programming (5)	PMT225				X	X
	Computer Integrated Manufacturing (3)	PMT235				X	X
	Computer Aided Manufacturing (5)	PMT240				X	X
	Introduction to 3D Contouring (3)	PMT250				X	X
	Industrial Blueprint Reading (3)	MTT108			X	X	X
	Dimensional Metrology (3)	MTT116			X	X	X
Technical Internship (1-3)	INT191, 192, 193			X			
General Education and Institutional Requirements	Communications (3)	ENG101(H)					X
	Communications OR Humanities (3)						X
	Social and Behavioral Sciences (3)						X
	Civics (3)						X
	MO Civics Exam	PSC001					X
	Mathematical Science (6)	MTH105^			X	X	X
		MTH121^					X
	Computer Literacy (3)	CIS125^					X
First Year Experience (1)					X	X	
Total Credits					20	46	64

General Education/ Institutional Requirements	Credits Required	Course Options
Communications	3	ENG101(H)
Communications OR Humanities	3	See MOTR webpage for a list of choices (cannot use Performance/Production of Creative Arts courses)
Social and Behavioral Sciences	3	See MOTR webpage for a list of choices
Civics	3	HST103(H), HST104(H), PSC102(H)
Mathematical Science	6	MTH105^ and MTH121^
Computer Literacy	3	CIS125^
First Year Experience	1	COL100^, COL101^, COL136^

^These courses listed in the General Education and Institutional Requirements are not part of the MOTR CORE42 general education program, and are not a guaranteed transfer to other institutions.

+Precision Machining Technology offers a Machining Career Readiness Certificate (C1) option, Precision Machining Technology Certificate (C2) option, and Precision Machining Technology Degree option (Degree).