

MoManufacturing
MACHINE TOOL TECHNOLOGY: ALTERNATIVE COURSE SEQUENCE

PHASE I: Machine Specialist Certification 32 credit hours total		PHASE II: MTT Degree AAS Degree: 66-68 hours total			PHASE III: Manufacturing Degree 2 nd AAS Degree: 76-79 hours total
17 week program (roughly one semester)		Semester II	Semester III	Semester IV	Semester V
Machine Shop I MTT 125 4	Computer Aided Manufacturing I MTT 145 4	Composition I ENG 101 3	Public Speaking COM 105 3	Lifetime Wellness HLT 101 2	Principles of Business BUS 110 3
Computer Numerical Control I MTT 135 4	Machine Tool Processes I MTT 155 4	Tech. Math I MTH 125 (or) College Algebra MTH 130 3	Manufacturing Processes & Materials DDT 115 4	Social Science Elective (A)* 3	Industrial Safety IMT 120 ¹ 3
Machine Shop II MTT 225 4	Computer Aided Manufacturing II MTT 245 4	Introduction to Physics PHY 105 4	Related Elective 3	Occupational Seminar TEC 285 1	Manufacturing Capstone MFG 275 3-4
Computer Numerical Control II MTT 235 4	Machine Tool Processes II MTT 255 4	Co-Op Ed./Internship/ Related Elective MTT 290 1-3	¹ Social Science Elective (A)* 3	Mechanical Dimensioning & Tolerancing DDT 110 4	Co-op/Intern/ Related Elective MFG 290 <i>(Aluminum Welding Course can fulfill this requirement)</i> 1-3
32		11-13	13	10	10-14

Note: *(A) please see back for additional course information.
Certificate = Courses within bold border



Related Electives

The student may choose approved related courses from the following programs:
CST, DDT, HRA, IMT, MTT, WLD

¹ Must satisfy Missouri law to include instruction in Federal and State Constitution.

This block diagram is provided to aid in advising students and tracking course completion.

OTC reserves the right to modify course titles, sequences and content in accordance with college procedures.

Not all courses are offered every semester. Check with the department chair for additional information.

MTT

A: **OTC COURSES THAT SATISFY THE SOCIAL SCIENCE REQUIREMENTS:**

****To satisfy Missouri law to include instruction in Federal and State Constitution one of the following options must be used to fulfill the social science requirement:**

Option 1: HST 120 and HST 130

Option 2: PLS 101 and ONE (1) other social science from the following:

AGR 100	Introduction to Agriculture
ANT 101	Introduction to Anthropology
ECO 270	Principles of Macroeconomics
GRY 101	World Geography I
GRY 230	World Economic Geography
HST 105	World History I
HST 106	World History II
HST 120	US History I: to 1865
HST 130	US History II: 1865 to the Present
PLS 250	The Politics of Environment
PLS 255	Environmental Laws and Regulations
PSY 110	Introduction to Psychology
SOC 101	Introduction to Sociology

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Any other ECO, HST, PLS, PSY (may not include PSY 100) and SOC course will fulfill this requirement; however the others have a prerequisite.

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