



**MoManufacturing**  
**INDUSTRIAL MAINTENANCE TECHNOLOGY CAREER LADDER**

<b>PHASE I: IMT Certification</b> 31 credit hours total		<b>PHASE II: IMT Degree</b> AAS Degree: 64-66 hours total		<b>PHASE III:</b> <b>Manufacturing Degree</b> 2 <sup>nd</sup> AAS Degree: 75-80 hours total
Semester I	Semester II	Semester III	Semester IV	Semester V
Industrial Safety <b>IMT 120</b>  3	Industrial Electricity II <b>IMT 140</b>  4	Composition I <b>ENG 101</b>  3	Industrial Systems Maintenance <b>IMT 260</b>  4	Principles of Business <b>BUS 110</b>  3
Industrial Electricity <b>IMT 130</b>  4	Programmable Control <b>IMT 225</b>  4	Technical Math <b>TEC 108</b>  3	Occupational Seminar <b>TEC 285</b>  1	Related Elective   4
Fluid Power <b>IMT 125</b>  4	Mechanical Power Transmission <b>IMT 200</b>  4	Program/Related Elective   4	Co-op Ed./Intern/Related Elective <b>IMT 290</b>  1-3	Manufacturing Capstone <b>MFG 275</b>  3-4
Industrial Motors & Controls <b>IMT 170</b>  4	PLC Systems/Robotics <b>IMT 246</b>  4	Public Speaking <b>COM 105</b>  3	<sup>2</sup> Social Science Elective   3	Co-op/Intern/Related Elective <b>MFG 290</b> <i>(Aluminum Welding Course can fulfill this requirement)</i>  1-3
15	16	<sup>2</sup> Social Science Elective (B)* 3	Introduction to Physics <b>PHY 105</b> (A)* 4	11-14
		16	13-15	

Note: \*(A) and (B) please see back for additional course information.

<u>Related Electives</u>	<u>Cr. Hours</u>
IMT 137 Alternative & Renewable Energy	4
IMT 190 Industrial Manufacturing Processes	4
ENG 150 Technical Writing	3
Any related course from the following programs: CIS, CST, DDT, ELC, HRA, MTT, WLD	

<sup>2</sup> 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 departmental chair for additional information.*

## IMT

### A: OTC COURSES THAT SATISFY THE SCIENCE ELECTIVE REQUIREMENT:

BIO 100	Life Science
BIO 105	Environmental Science
BCS 120	Human Anatomy and Physiology
BCS 140	Human Anatomy

Any other 4-hour BIO, BCS, CHM or PHY course numbered 100 or above will fulfill this requirement; however the others have a prerequisite.

### B: 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

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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