

## Curriculum ([Click to Download Curriculum](#))

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
	<b>CORE COURSES:</b>				
ORNT 1000	Freshman Seminar	1	0	1	15
IMFG 1100	Introduction to Manufacturing	2	0	2	30
IMFG 1120	Tools and Equipment Used in Manufacturing	1	1	2	60
IMFG 1200	Automation	1	1	2	45
IMFG 1300	Introduction to Fabrication, Process Technology, & Machining	1	2	3	90
	<b>CTC –Manufacturing Fundamentals</b>			<b>10</b>	<b>240</b>
IMFG 1215	Basic AC/DC Electrical	1	2	3	105
IMFG 1121	Basic Mechanical	1	2	3	105
	CTS - Industrial Manufacturing			16	450
<b>INDUSTRIAL ELECTRICAL &amp; INSTRUMENTATION CONCENTRATION: (Core + the following)</b>					
IMFG 1433	Wiring/Electrical Blueprint Interpretation	1	1	2	60
IMFG 1150	Fluid Power I	1	2	3	90
IMFG 1235	Motor Controls	1	2	3	105
IMFG 2123	Understanding Programmable Controllers	1	2	3	105
IMFG2100	Basic Process Control	1	2	3	105
	<b>CTS – INDUSTRIAL ELECTRONICS TECHNICIAN</b>			<b>30</b>	<b>915</b>
IMFG1250	Advanced Programmable Controllers Mechatronics	1	2	3	105
IMFG 2800	Advanced Process Control Mechatronics	1	3	4	120
IMFG 2999	Elective or Coop	0	3	3	90
IMFG 2999	Elective or Coop	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	<b>TD –INDUSTRIAL MANUFACTURING-ELECTRICAL &amp; INSTRUMENTATION CONCENTRATION</b>			<b>45</b>	<b>1350</b>
ENGL 1010	English Composition I	3	0	3	45
MATH XXXX	College Algebra or Contemporary Math	3	0	3	45
	Social Science Elective	3	0	3	45
	Natural Science Elective	3	0	3	45

	Humanities Elective	3	0	3	45
<b>AAS-Technical Studies- Industrial Manufacturing</b>				<b>60</b>	<b>1575</b>
<b>Other Technical Diploma Concentrations</b>					
MILLWRIGHT CONCENTRATION: (Core + the following)					
IMFG 1320	Millwright I	3	0	3	45
IMFG 1321	Millwright I Lab	0	2	2	90
IMFG 1420	Millwright II	3	0	3	45
IMFG 1421	Millwright II Lab	0	3	3	120
IMFG 1130	Pneumatics Applications	0	2	2	90
	<b>CTS - MILLWRIGHT APPRENTICE</b>			<b>29</b>	<b>840</b>
IMFG 1325	Pipefitting	0	2	2	60
IMFG 1140	Hydraulics Applications	0	3	3	90
IMFG 1210	Material Handling	1	1	2	60
IMFG 1315	Welding	0	2	2	90
IMFG ???/IMFG 2999	Elective or Co-op	0	3	3	90
IMFG ???/IMFG 2999	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	<b>TD - INDUSTRIAL MANUFACTURING-MILLWRIGHT CONCENTRATION</b>			<b>45</b>	<b>1350</b>
MACHINE TOOL TECHNOLOGY CONCENTRATION: (Core + the following)					
IMFG 1110	Shop Mathematics	2	1	3	75
IMFG 1310	Machine Shop I	3	3	6	150
IMFG 1340	Basic Lathe	0	3	3	135
IMFG 1440	Basic Mill	0	3	3	135
	<b>CTS-CNC OPERATOR</b>			<b>31</b>	<b>945</b>
IMFG 1410	Machine Shop II	2	4	6	150
IMFG 2710	CNC	1	2	3	135
IMFG ???/IMFG 2999	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	<b>TD - INDUSTRIAL MANUFACTURING-MACHINE TOOL TECHNOLOGY CONCENTRATION</b>			<b>45</b>	<b>1350</b>