

2010 - 2011 Program of Study - Secondary

Submitted by CTPD Name: Massillon City Schools

CTPD Number: _____

Secondary Program Information

Career Field: Manufacturing Technologies (MT)

School District Name: Massillon City Schools

Pathway Name: Manufacturing Production (MT)

School District IRN: 44354

Specialization Name (if applicable): Precision Machining

Building (location) Name: Massillon Washington High School

EMIS Subject Code: _____

Building (location) IRN: 39602

Local Program Name: Manufacturing Production

For JVSD only: specify grade level(s) and building location for associate schools component:

Grade		School Name	
Courses		Credits	

Identify the # or range of **POTENTIAL** college courses and credits in the career field:

Required or Elective Academic Courses and Other Courses													Career and Technical Education Courses			
Grade	English	Code	Math	Code	Science	Code	Social Studies	Code	Course	Code	Course	Code	CTE Course	Code	CTE Course	Code
9	English 9	RA	Algebra	RA	Physical Science	RA	US History	RA	Physical Ed/Health	RA	Elective (2)	RE				
10	English 10	RA	Geometry	RA	Biology or College Biology (Lab)	RA	Modern US History	RA	Physical Ed/ Elective	RA RE	Elective (2)	RE				
11	English 11	RA	Algebra II/ Trig	RA	Chemistry or Physics (Lab)	RA	US Government	RA					CAD/ Machine Tech.	CC		
12	English 12 (DE) English	RA CC	Pre-Calculus	RA					(DE) COM 121 Effective Speaking	CC	Elective	RE	CAD/ Machine Tech.	CC		

Contact Person: <u>Tim Wolf</u> Title: <u>Career Tech Director</u> Phone: <u>330-830-3901</u> E-mail: twolf@massillon.sparcc.org Date Completed: _____	Specify Industry Credential Opportunities (if applicable): _____ _____ _____	<p style="text-align: center;"><u>CODES</u> (use all that apply)</p> <p>RA: Required Courses RE: Recommended Electives</p> <p>CT2: Eligible for CT2 Credit</p> <p>*CC: College Credit Opportunities based on articulation or dual/concurrent enrollment agreements in career field</p>
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2010 - 2011 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

Applied Industrial Technology

College Major: (if applicable) _____ College Degree: (if applicable) AAS

Specify Industry Credential Opportunities (if applicable): _____

Certificate, Adult and/or Apprenticeship Program: (if applicable) _____

Secondary Program Name: Manufacturing Tech. Secondary School Name: Massillon City Schools District Name: Massillon City Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
Year 1 1st Sem.	Computer Apps for Technical Professionals ECA122 (3)	RT CC TAG	Introduction to Algebra MTH101 (4)	RA	College Composition ENG124 (3)	RA	Material Science MET123 (2)	RT	Blueprint Reading MST121 (2)	RT CC	Engineering Tech Seminar ETD121 (1)	RT				
Year 1 2nd Sem.	College Algebra MTH125 (4)	RA	Trigonometry MTH128 (1)	RA	Hydraulic & Pneumatic Systems MST134 (6)	RT	Electrical Circuits & Devices EST130 (4)	RT	Industrial Management Concepts IET121 (3)	RT						
Year 2 1st Sem.	Technical Report Writing ENG221 (3)	RA	Physics I Phy121 (4)	RA TAG	Eff Speak or Inter-group Comm COM121/COM1 23 (3)	RA TAG	Introduction to Robotics IET228 (2)	RT	Manufacturing Processes MET225 (3)	RT						
Year 2 2nd Sem.	Mechanical Drive Components MST221 (3)	RT	Arts/Humanities/ Social Science Elective	RE	Technical Electives (13)	RT										

Contact Person: Don Ball
 Director, Apprenticeship & Industrial Training
Title: (HVAC & Environmental)
Phone: 330-494-6170 x4470
E-mail: dball@starkstate.edu

CODES (use all that apply)

RT: Required Technical Courses **CT2:** Eligible for CT2 Credit
RA: Other Required Courses **TAG:** Eligible for TAG Credit
RE: Recommended Electives
CC: Other College Credit Opportunities (based on articulation or dual/concurrent enrollment agreements with partner high school)

2010 - 2011 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Electrical Maintenance Technology

College Degree: (if applicable) AAS

Specify Industry Credential Opportunities (if applicable): _____

Certificate, Adult and/or Apprenticeship Program: (if applicable) _____

Secondary Program Name: Manufacturing Tech

Secondary School Name: Massillon City Schools

District Name: Massillon City Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
Year 1 1st Sem.	DC Circuit Analysis EET120 (4)	RT	Engineering Technology Seminar ETD121 (1)	RT	Hydraulic & Pneumatic Systems MST134 (6)	RT	Blueprint Reading MST121 (2)	RT CC	College Algebra MTH125 (4)	RA	Trigonometry MTH128 (1)	RA				
Year 1 2nd Sem.	Circuit Manufacturing Techniques EET125 (1)	RT	Electronic Devices & Circuits EET123 (4)	RT	Electrical Machines EET126 (4)	RT	Physics I PHY121 (4)	RA TAG	Computer Applications for Technical Professionals ECA122 (3)	RA CC TAG	AC Circuit Analysis EET122 (4)	RT				
Year 2 1st Sem.	NEC & Electrical Systems Design EET128 (2)	RT	PLC's & Industrial Controls I EET227 (3)	RT	Mechanical Drive Components MST221 (3)	RT	Eff Speak or Inter-group Comm COM121/COM123 (3)	RA TAG	Switchgear, Transformers & Controls EST129 (2)	RT	College Composition ENG124 (3)	RA				
Year 2 2nd Sem.	PLC's & Industrial Controls II EET228 (3)	RT	Electrical/Electronic Troubleshooting EST221 (3)	RT	Technical Report Writing ENG221 (3)	RA	HVAC Principles I HVC121 (3)	RT	Technical Elective (3)	RT	Arts/Humanities/Social Science Elective (3)	RA				

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2010 - 2011 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology
College Major: (if applicable) Electrical Engineering- **College Degree: (if applicable)** AAS
Specify Industry Credential Opportunities (if applicable): _____

Certificate, Adult and/or Apprenticeship Program: (if applicable) _____

Secondary Program Name: Manufacturing Tech **Secondary School Name:** Massillon City Schools **District Name:** Massillon City Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
Year 1 1st Sem.	Programming Logic and Problem Solving ECA127 (3)	RT	DC Circuit Analysis EET120 (4)	RT	Engineering Tech Seminar ETD121 (1)	RT	College Composition ENG124 (3)	RA	College Algebra MTH125 (4)	RA	Trigonometry MTH128 (1)	RA				
Year 1 2nd Sem.	AC Circuit Analysis EET122 (4)	RT	Electronic Devices & Circuits EET123 (4)	RT	Electrical Machines EET126 (4)	RT	Pre-Calculus MTH126 (4)	RA	Physics I PHY121 (4)	RA TAG						
Year 2 1st Sem.	Material Science MET123 (2)	RT	Statics & Strength of Materials MET124 (4)	RT	PLC's & Industrial Controls I EET227 (3)	RT	Concepts of Calculus MTH221 (3)	RA	Technical Report Writing ENG221 (3)	RA	Basic AutoCAD DET125 (3)	RT CC				
Year 2 2nd Sem.	Eff Speak or Inter-group Comm COM121/COM123 (3)	RA TAG	Fluid Power MET222 (4)	RT	Manufacturing Processes MET222 (3)	RT	Thermodynamics & Heat Transfer MET227 (3)	RT:	Optics EET129 (2)	RT	Arts/Humanities/ Social Science Elective	RE				

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2010 - 2011 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Mechanical Engineering College Degree: (if applicable) AAS

Specify Industry Credential Opportunities (if applicable): _____

Certificate, Adult and/or Apprenticeship Program: (if applicable) _____

Secondary Program Name: Manufacturing Tech. Secondary School Name: Massillon City Schools District Name: Massillon City Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
Year 1 1st Sem.	Engineering Tech Seminar ETD121 (1)	RT	Material Science MET123 (2)	RT	Engineering Drawing DET121 (3)	RT CC	College Composition ENG124 (3)	RA	College Algebra MTH125 (4)	RA	Trigonometry MTH128 (1)	RA	Computer Apps for Technical Professionals ECA122 (3)	RT CC TAG		
Year 1 2nd Sem.	Statics & Strength of Materials MET124 (4)	RT	Manufacturing Processes or Machine Tools MET225/ AIT122 (3)	RT	Pre-Calculus MTH126 (4)	RA	Basic AutoCAD or Pro Engineer (DET131) DET125 (3)	RA	Physics I Phy121 (4)	RA TAG						
Year 2 1st Sem.	Eff Speak or Inter-group Comm COM121/CO M123 (3)	RA TAG	Machine Design MET228 (4)	RT	Advanced Strength of Materials MET221 (2)	RT	Fluid Power MET222 (4)	RT:	Concepts if Calculus or Analytical Geomerty-Cal I MTH221/MTH2 23 (3-4)	RA						
Year 2 2nd Sem.	Dynamics MET223 (2)	RT	Electrical Circuits & Devices EST130 (4)	RT	Thermodynam ics & Heat Transfer MET227 (3)	RT	Technaical Project- Mechanical & Design MET226 (2)	RT:	Technical Report Writing ENG221 (3)	RA	Arts/Hunanities/ Social Science Elective	RE				

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2010 - 2011 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology
 College Major: (if applicable) Design Engineering College Degree: (if applicable) AAS

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Secondary Program Name: Manufacturing Tech. Secondary School Name: Massillon City Schools District Name: Massillon City Schools

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Year 1 1st Sem.	Engineering Drawing DET121 (3)	RT	College Composition ENG124 (3)	RA	Engineering Tech Seminar ETD121 (1)	RT	College Algebra MTH125 (4)	RA	Trigonometry MTH128 (1)	RA	Computer Apps for Technical Professionals ECA122 (3)	RT CC TAG	Basic AutoCAD DET125 (3)	RT CC		
Year 1 2nd Sem.	Descriptive Geometry DET122 (3)	RA	Working Drawings DET124 (3)	RT	Pre-Calculus MTH126 (4)	RA	Physics I Phy121 (4)	RA TAG	Statics & Strength of Materials MET124 (4)	RT						
Year 2 1st Sem.	Geometric Dimensioning & Tolerancing DET226 (2)	RT	Eff Speak or Inter-group Comm COM121/COM123 (3)	RA TAG	Manufacturing Processes or Machine Tools MET225/AIT122 (3)	RT	Concepts of Calculus MTH221(3)	RA	Desgin Elective I (CAD) (3)	RT	Kinematics DET223 (3)	RT				
Year 2 2nd Sem.	Technaical Project-Mechanical & Design MET226 (2)	RT	Machine Design MET228 (4)	RT	Technical Report Writing ENG221 (3)	RA	Arts/Hunanitie s/ Social Science Elective	RE	Desgin Elective II (CAD) (3)	RT						

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