

## ARTS AND COMMUNICATIONS PATHWAY

Revised 12/30/08

### ARTS/AV TECHNOLOGY & COMMUNICATIONS CLUSTER

Audio & Video Technology Cluster Pathway	Journalism and Broadcasting Cluster Pathway	Printing Technologies Cluster Pathway	Performing Arts Cluster Pathway	Telecommunication Technology Cluster	Visual Arts Cluster Pathway
10.0202 Radio & TV Broadcasting Technology		10.0301 Graphic & Printing Technology and Communication (combined with 50.0401--Visual Communication Technology which was dropped)	50.0101 Visual and Performing Arts		19.0906 Fashion Design
The Massachusetts Career/Vocational Technical Education Professional Development Center- Radio and Television Broadcasting		Michigan Customized List	New York List		Michigan Customized List

## BUSINESS, MANAGEMENT, MARKETING and TECHNOLOGY PATHWAY

### BUSINESS, MANAGEMENT & ADMINISTRATION CLUSTER

Administrative Services Cluster Pathway	Business Information Management Cluster Pathway	Corporate/General Management Cluster Pathway	Human Resources Management Cluster Pathway	Operations Management Cluster Pathway
	52.0299 Business Adm, Management & Operations			
	Microsoft Office Specialist (MOS)			

### FINANCE CLUSTER

Accounting Cluster Pathway	Banking Services Cluster Pathway	Corporate Finance Cluster Pathway	Financial Planning and Investments Cluster Pathway	Insurance Cluster Pathway
52.0800 Financial & Financial Management Services				
National Occupational Competency Testing Institute (NOCTI) #2900--Accounting Complete				

**HOSPITALITY & TOURISM CLUSTER**

Restaurant and Food/Beverage Services/Travel & Tourism Cluster Pathway	Lodging Cluster Pathway	Recreation, Amusement & Attractions Cluster Pathway
12.9999 Personal and Culinary Services (Restaurant, Culinary & Catering Management, Food Services Systems Administration and Management, and Travel & Tourism Services Management)		
Servsafe and ProSTART		

**INFORMATION TECHNOLOGY CLUSTER**

Network Systems Cluster Pathway	Information Support and Services Cluster Pathway	Interactive Media Cluster Pathway	Programming and Software Development Cluster Pathway
11.0901 Computer Systems Networking and Telecommunications (Formerly 11.1000) <i>See mccte-fsu.org website for standards</i>	11.1001 Systems Administration/Administrator (Formerly 11.1000) <i>See mccte-fsu.org website for standards</i>	11.0801 Digital/Multimedia and Information Resources Design (Formerly 11.1000) <i>Updated MI Technical Skills - CIW</i>	11.0201 Computer Programming/Programmer (Formerly 11.1000) <i>See mccte-fsu.org website for standards</i>

**MARKETING, SALES & SERVICE CLUSTER**

Marketing Management Cluster Pathway	Marketing Communications Cluster Pathway	Marketing Research Cluster Pathway	Merchandising Cluster Pathway	Professional Selling Cluster Pathway
52.1999 Marketing, Sales & Services - Entrepreneurship & Marketing				
MI Marketing Standards Marketing Education Resource Center (Mark-ED)				

# ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGY PATHWAY

Revised 12/30/08

## ARCHITECTURE & CONSTRUCTION CLUSTER

Design/Pre-Construction Cluster Pathway	Construction Cluster Pathway	Maintenance/Operations Cluster Pathway
<b>15.1301 Drafting &amp; Design Technology</b>	<b>46.0000 Construction Trades</b>	<b>46.0401 Building Maintenance</b>
Missouri CAD Standards	Home Builders Institute--	The Massachusetts Career/Vocational Technical Education Professional Development Center - Facilities Management
<b>19.0605 Home Furnishings Equipment Installers &amp; Consultants</b>	<b>46.0301 Electrical &amp; Power Transmission Installation</b>	
Customized Standards/Assessment will be developed	Customized Standards/Assessment will be developed	
	<b>47.0201 Heating, Air Conditioning, Ventilation and Refrigeration (HVACR)</b>	
	HVAC Excellence (Program certification required)	

## SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CLUSTER

Engineering and Technology	Science and Math
<b>14.1001 Electrical, Electronics and Communications Engineering</b>	
Project Lead The Way (Course 1, 2, and 3)	
<b>14.3801 Surveying Engineering</b>	
Project Lead The Way (Course 1, 2, and 5)	

Production Cluster Pathway	Manufacturing Production Process Development Cluster Pathway	Maintenance, Installation and Repair Cluster Pathway	Quality Assurance Cluster Pathway	Logistics & Inventory Control	Health, Safety and Environmental Assurance
<b>15.0403 Electro-Mechanical Technology</b>		<b>47.0616 Marine Maintenance</b>			
Florida Department of Education Electromechanical Technology		National Occupational Competency Testing Institute (NOCTI) and Recreation Vehicle Industry Association (RVIA)			
		<b>48.0701 Woodworking General</b>			
		WoodLINKS			
<b>48.0501 Machine Tool Operation/Machine Shop</b>		<b>47.0101 Electrical/Electronics Equipment Installation &amp; Repair General</b>			
National Institute for Metalworking Skills (NIMS)-Level 1 (Use MI-NIMMS)		Comptia A+ for computer repair, National Occupational Competency Testing Institute (NOCTI) #2051--Industrial Electronics			
<b>48.0508 Welding, Brazing, and Soldering</b>		<b>15.0612 Industrial Production Technology/Technician</b>			
American Welding Society (AWS) - Level 1 Welding		The Massachusetts Career/Vocational Technical Education Professional Development Center - Robotics			

Transportation Operations Cluster Pathway	Logistics Planning and Management Services Cluster Pathway	Warehousing and Distribution Center Operations Cluster Pathway	Facilities and Mobile Equipment Maintenance Cluster Pathway	Transportation Systems/ Infrastructure Planning, Management and Regulation Cluster Pathway	Health, Safety, and Environmental Management Cluster Pathway	Sales and Services Cluster Pathway
			<b>47.0399 Industrial Equipment Maintenance &amp; Repair</b>			
			AIS Construction			
			<b>47.0603 Collision Repair Technician (NATEF Certified)</b>			
			National Automotive Technicians Education Foundation (NATEF)			
			<b>47.0604 Automotive Technician (NATEF Certified)</b>			
			National Automotive Technicians Education Foundation (NATEF)			
			<b>47.0606 Small Engine &amp; Related Equipment Repair</b>			
			National Occupational Competency Testing Institute (NOCTI) #3068			
			<b>47.0607 Airframe Technology</b>			
			Federal Aviation Administration (FAA)			
			<b>47.0608 Power Plant Technology (Aircraft)</b>			
			Federal Aviation Administration (FAA)			
			<b>47.0613 Medium/Heavy Truck Technician (NATEF Certified)</b>			
			National Automotive Technicians Education Foundation (NATEF)			
			<b>49.0101 Aeronautics/Aviation/ Aerospace Science &amp; Technology</b>			
			Federal Aviation Administration (FAA)			

## HEALTH SCIENCES PATHWAY

Revised 12/30/08

### HEALTH SCIENCE CLUSTER

Therapeutic Services Cluster Pathway	Diagnostic Services Cluster Pathway	Health Informatics Cluster Pathway	Support Services Cluster Pathway	Biotechnology Research and Development Cluster Pathway
51.0000 Health / Therapeutic Services	51.1000 Health/Diagnostic Services	51.0707 Health Informatics		26.0102 Biotechnology Medical Sciences
National Health Care Skill Standards	National Health Care Skill Standards	National Health Care Skill Standards		

## HUMAN SERVICES PATHWAY

### EDUCATION & TRAINING CLUSTER

Administration and Administrative Support Cluster Pathway	Professional Support Services Cluster Pathway	Teaching/Training Cluster Pathway
		13.0000 Education General (Teacher Cadet)
		Michigan Teacher Cadet Standards

### HUMAN SERVICES CLUSTER

Early Childhood Development & Services Cluster Pathway	Counseling & Mental Health Services	Family & Community Services Cluster Pathway	Personal Care Services Cluster Pathway	Consumer Services Cluster Pathway
19.0700 Child & Custodial Care Services			12.0400 Cosmetology - Cosmetologist	
Child Development Associate (Infant and Toddler, and Preschool)			Cosmetology	
			12.0400 Cosmetology - Nail Technician	
			Nail Technician	

**LAW, PUBLIC SAFETY,  
CORRECTIONS & SECURITY  
CLUSTER**

Correction Services Cluster Pathway	Emergency and Fire Management Services Cluster Pathway	Security & Protective Services Cluster Pathway	Law Enforcement Cluster Pathway	Legal Services Cluster Pathway
	43.0100 Public Safety/Protective Services - Fire Fighting		43.0100 Public Safety/Protective Services - Law Enforcement	
	Firefighter 1 & 2 National/Michigan Fire Protection Association Standards		Michigan Commission on Law Enforcement Standards (MCOLES)	

**GOVERNMENT & PUBLIC  
ADMINISTRATION CLUSTER**

Governance	National Security	Foreign Service	Planning	Revenue and Taxation	Regulation	Public Management and Administration
	28.0301 Army (JROTC) (New & Emerging)					

**NATURAL RESOURCES AND AGRISCIENCE PATHWAY**

**AGRICULTURE, FOOD &  
NATURAL RESOURCES  
CLUSTER**

Food Products and Processing Systems Cluster Pathway	Plant Systems Cluster Pathway	Animal Systems Cluster Pathway (And Plant Systems)	Power, Structure & Technical Systems Cluster Pathway	Natural Resources Cluster Pathway	Environmental Service Systems Cluster Pathway	Agribusiness Systems Cluster Pathway
	01.0601 Applied Horticulture & Horticultural Operations	01.0000 Agriculture, Agricultural Operations/Related Sciences		03.0000 Natural Resources and Conservation		01.0101 Agricultural Business and Management
	See mccte-fsu.org website	See mccte-fsu.org website		See mccte-fsu.org website		See mccte-fsu.org website