

## Trade and Industrial Education Instructional Framework Programs 2025-2026

### Cluster: Pre-Occupational

Pathways:	State Program Name:	State Program Code:	State Program	Local Program Code:	OCAS Code:	CIP:	SOC:
AC009- Trade and Industrial Education Exploration	Trade and Industrial Education Exploration	AC0050000	480	AC0080000	8940	NONE	NONE
Course Name	Course Code						
General Safety	TI01650						
Trade and Industrial Education Exploration	TI2058						
Trade and Industrial Education Exploration Advanced	TI2059						

### Cluster: Agriculture, Food & Natural Resources - AG

Pathways:	State Program Name:	State Program Code:	State Program Hours:	Local Program Code:	OCAS Code:	CIP:	SOC:
AG002 - Plant and Soil Science	Floriculture	AG0026000	960	AG0020031	9003/9011	1.0608	41-1011
Course Name	Course Code						
General Safety	TI01650						
Flowers And Foliage	TI00621						
Basic Techniques And Styles	TI00622						
Floral Industry	TI01138						
Theory And Design	TI01214						
Floral Design	TI02478						
Career Major Capstone - WBL/ Internship	TI02511						
	Horticulture	AG0026001	960	AG0020003	9004/ 9020	1.0601	11-9013; 37-1012; 37-3011
Course Name	Course Code						
Fertilizers & Soils	TI00593						
Principles Of Horticulture	TI00588						
Propagation Of Horticulture Plants	TI00589						
Floriculture Production	TI02479						
Horticulture Operations	TI02480						
Landscape Installation	TI02481						
Landscape Design	TI02482						
Greenhouse Operations	TI02483						
Career Major Capstone - WBL/ Internship	TI02511						
	Landscape Design/Maintenance	AG0076000	960	AG0070002	9005/ 9012	1.0601	11-9013; 37-1012; 37-3011
Course Name	Course Code						
Principles Of Horticulture	TI00588						
Propagation Of Horticulture Plants	TI00589						

Applying Pesticides	TI00590
Field Scouting, Weed Collection & Insect Collection	TI00592
Fertilizers & Soils	TI00593
Greenhouse Management	TI00594
Landscaping Design Considerations	TI00612
Landscape Grounds Keeping	TI00613
Landscape Tool Operation	TI00615
Flowers And Foliage	TI00621
Orientation To The Horticulture Industry	TI01360
Floriculture Production	TI02479
Horticulture Operations	TI02480
Landscape Installation	TI02481
Landscape Design	TI02482
Greenhouse Operations	TI02483
Horticulture Business Management	TI02484
Career Major Capstone - WBL/ Internship	TI02511

	Service Careers Horticulture	AG0026002	960	AG0020006	9008/9014	1.0601	11-9013; 37-1012; 37-3011
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Course Name	Course Code
Fertilizers & Soils	TI00593
Greenhouse Management	TI00594
Landscape Grounds Keeping	TI00613
Landscape Tool Operation	TI00615
Preventive Maintenance For Horticulture Equipment	TI01370
Principles Of Horticulture	TI00588
Propagation Of Horticulture Plants	TI00589
Service Careers Life Skills	TI00378
Workforce Connection	TI00192
Workforce Induction	TI00791
Workforce Staging	TI00802
Fertilizers & Soils	TI00593
Greenhouse Management	TI00594
Landscape Grounds Keeping	TI00613
Landscape Tool Operation	TI00615
Preventive Maintenance For Horticulture Equipment	TI01370
Principles Of Horticulture	TI00588
Propagation Of Horticulture Plants	TI00589
Service Careers Life Skills	TI00378
Career Major Capstone - WBL/ Internship	TI02511

AG003 - Animal Science	Equine Science	AG0036000	600	AG0030004	9002/9000	1.0307	11-9013
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Course Name	Course Code
Applied Equine Nutrition	TI01490
Basic Handling And Care	TI01485
Breeds, Color, & Markings	TI01488

Equine Anatomy & Physiology	TI00567
Equine Genetics	TI00568
Equine Judging And Selection Techniques	TI00558
Equine Marketing Strategies	TI01487
Equine Paturition	TI00559
Health Disease & Parasites	TI01486
Mare Reproduction	TI00560
Stallion Reproduction	TI00570
Weaning/Halter Breaking Techniques	TI02485
Ground Driving Techniques	TI02486
Equine Health and Disease	TI02487
Career Major Capstone - WBL/ Internship	TI02511

### Cluster: Architecture & Construction- AC

<i>Pathways:</i>	<i>State Program Name:</i>	<i>State Program Code:</i>	<i>State Program Hours:</i>	<i>Local Program Code:</i>	<i>OCAS Code:</i>	<i>CIP:</i>	<i>SOC:</i>
AC003 - Construction	Cabinetmaking	AC0030057	480	AC0030107	9111	48.0703	51-7011

Course Name	Course Code
Advanced Cabinets Design and Build	TI02203
Basic Cabinetmaking	TI02212
Cabinet Construction	TI0101566
Cabinet Installation	TI02270
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

Cabinetmaking Advanced	AC0046005	960	AC0030008	9111/9112	48.0703	51-7011
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Course Name	Course Code
Advanced Cabinets Design and Build	TI02203
Basic Cabinetmaking	TI02212
Cabinet Construction	TI0101566
Cabinet Installation	TI02270
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

Carpentry	AC0036000	480	AC0030012	9053	46.0201	51-7099;47-2031
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Course Name	Course Code
Drywall Installation	TI00404
Concrete And Reinforcing Materials	TI00492
Floor Systems	TI00921
Exterior Finishing	TI00224
Roof Framing	TI00223
Metal Stud Framing	TI00096
Stairs	TI00407
Roofing Applications	TI00763
Wall And Ceiling Framing	TI00408
Thermal & Moisture Protection	TI00102

Residential Exterior Trim & Roof	TI10153
Building Materials, Fasteners, and Adhesives	TI02230
Electronics Hand And Power Tools For Electronics Technicians	TI00539
Plan Reading And Elevations	TI00923
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

	Carpentry Advanced	AC0036006	960	AC0030039	9078	46.0201	51-7099; 47-2031
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Course Name	Course Code
Drywall Installation	TI00404
Concrete And Reinforcing Materials	TI00492
Floor Systems	TI00921
Exterior Finishing	TI00224
Roof Framing	TI00223
Metal Stud Framing	TI00096
Stairs	TI00407
Roofing Applications	TI00763
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Thermal & Moisture Protection	TI00102
Installation Of Interior Doors	TI00406
Building Materials, Fasteners, And Adhesives	TI00216
Plan Reading And Elevations	TI00923
Residential Exterior Trim & Roof	TI10153
Electronics Hand And Power Tools For Electronics Technicians	TI00539

	Construction Technology Introduction	AC0030083	240	AC0030108	NO OCAS	46.0000	47-1011
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Course Name	Course Code
General Safety	TI01650
Basic Masonry	TI0101535
Construction Principles	TI02135
Concrete Construction and Finishing	TI02274
Structural Framing	TI02638
Construction Technology HVAC	TI02704
Construction Technology Plumbing	TI02702
Commercial Construction Techniques	TI02532
Construction Technology Electrical	TI02695
Construction Drawings	TI02292
Roofing	TI02577
Exterior Finishing	TI00224

	Construction Technology Basic	AC0040020	480	AC0070010	9098	46.0000	47-1011
Course Name	Course Code						
General Safety	TI01650						
Roofing	TI02577						
Construction Core	TI00766						
Basic Masonry	TI0101535						
Construction Principles	TI02135						
Construction Drawings	TI02292						
Structural Framing	TI02638						
Exterior Finishing	TI00224						
Concrete Construction and Finishing	TI02274						
Commercial Construction Techniques	TI02532						
Career Major Capstone - WBL/ Internship	TI02511						
Construction Technology HVAC	TI02704						
Construction Technology Plumbing	TI02702						
Construction Technology Electrical	TI02695						

	Construction Technology	AC0046010	600	AC0070011	9098	46.0000	47-1011
Course Name	Course Code						
Construction Technology HVAC	TI02704						
Construction Technology Plumbing	TI02702						
Construction Technology Electrical	TI02695						
Structural Framing	TI02638						
Roofing	TI02577						
Commercial Construction Techniques	TI02532						
Construction Drawings	TI02292						
Concrete Construction and Finishing	TI02274						
Construction Principles	TI02135						
General Safety	TI01650						
Basic Masonry	TI0101535						
Exterior Finishing	TI00224						
Career Major Capstone - WBL/ Internship	TI02511						

	Construction Technology	AC0036009	960	AC0070012	9098/9099	46.0000	47-1011
Course Name	Course Code						
Exterior Finishing	TI00224						
Basic Masonry	TI0101535						
General Safety	TI01650						
Construction Principles	TI02135						
Concrete Construction and Finishing	TI02274						
Construction Drawings	TI02292						
Commercial Construction Techniques	TI02532						
Roofing	TI02577						

Structural Framing	TI02638
Career Major Capstone - WBL/ Internship	TI02511
Construction Technology HVAC	TI02704
Construction Technology Plumbing	TI02702
Construction Technology Electrical	TI02695

	Heavy Equipment	AC0036008	480	AC0030100	9061	49.0202	47-2073; 47-5099; 53-7032;47-2071
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Course Name	Course Code
Basic Equipment Operational Techniques	TI00974
Dozers	TI00967
Dump Truck	TI00973
Excavators	TI00976
Grades	TI00667
Soils	TI00716
Tractor Backhoe Operations	TI02610
General Safety	TI01650
Loader	TI02404
Skid Steer Operations	TI02407

	Heavy Equipment	AC0030089	960	AC0030028	9061/9089	49.0202	47-2073; 47-5099; 53-7032;47-2071
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Course Name	Course Code
Tractor Backhoe Operations	TI02610
Loader	TI02404
Skid Steer Operations	TI02407
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Basic Equipment Operational Techniques	TI00974
Dozers	TI00967
Dump Truck	TI00973
Excavators	TI00976
Grades	TI00667
Soils	TI00716

	Masonry Assistant	AC0046011	480	AC0030010	9065	46.0101	47-2044;47.2022; 47-1011
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Course Name	Course Code
Placing and Finishing Concrete	TI00170
Mortars and Grouts	TI00660
Masonry Units and Installation Techniques	TI00661
Metal Work In Masonry	TI00665
Site Layout, Distance Measurement and Leveling	TI00900
Plan Reading And Elevations	TI00923
Masonry Repair and Restoration	TI00959
Stone Masonry	TI01520
General Safety	TI01650

AC004 - Maintenance/Operations	Service Careers - Facilities, Grounds and Service	AC0046012	480	AC0040027	9071/9076	46.0401	49-9071;37-1011
Course Name	Course Code						
General Safety	TI01650						
Introduction to Service Careers I	TI02546						
Introduction to Service Careers II	TI02551						
Building Maintenance Tools I	TI02547						
Building Maintenance Tools II	TI02553						
Groundskeeping and Tool Operation I	TI02193						
Groundskeeping and Tool Operation II	TI02194						
Facility Care/Housekeeping/Basic Grounds Care	TI02321						
Custodial Services	TI00377						
Professional Service	TI00718						
	Service Careers - Facilities, Grounds and Service	AC0040052	960	AC0040036	9071/9076	46.0401	49-9071;37-1011
							49-9071;37-1011
Course Name	Course Code						
Building Maintenance Tools I	TI02547						
Introduction to Service Careers II	TI02551						
Building Maintenance Tools II	TI02553						
Custodial Services	TI00377						
Professional Service	TI00718						
General Safety	TI01650						
Groundskeeping and Tool Operation I	TI02193						
Groundskeeping and Tool Operation II	TI02194						
Facility Care/Housekeeping/Basic Grounds Care	TI02321						
Introduction to Service Careers I	TI02546						
	Building Maintenance	AC0046013	960	AC0040072	9071/9076	46.0401	49-9071;37-1011
Course Name	Course Code						
Groundskeeping and Tool Operation II	TI02194						
Building Maintenance Tools I	TI02547						
Building Maintenance Tools II	TI02553						
Career Major Capstone - WBL/ Internship	TI02511						
Custodial Services	TI00377						
Professional Service	TI00718						
General Safety	TI01650						
Groundskeeping and Tool Operation I	TI02193						
Building and Facilities Maintenance	TI2057						
AC008 - Skilled Trades	Electrician Assistant	AC0046014	480	AC0030006	9058	46.0302	49-2095
Course Name	Course Code						

Electrical Wiring Installations	TI02329
Basic Conduit Theory	TI02084
Tools and Meters	TI02082
Blueprint Reading	TI02601
Alternative Current Theory	TI02573
Environmental Electrical Practices	TI02085
Electrical Distribution in Construction	TI02589
Electric Motor Control	TI02500
National Electrical Code	TI02295
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Direct Current Circuits	TI00358

	Electrician Assistant	AC0030006	600	AC0030020	9058/9086	46.0302	49-2095
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Electrical Wiring Installations	TI02329
Basic Conduit Theory	TI02084
Tools and Meters	TI02082
Blueprint Reading	TI02601
Alternative Current Theory	TI02573
Environmental Electrical Practices	TI02085
Electrical Distribution in Construction	TI02589
Electric Motor Control	TI02500
Direct Current Circuits	TI00358
National Electrical Code	TI02295

	Electrical Trades	AC0036003	1000	AC0030019	9058/9086	46.0302	49-2095
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Electrical Wiring Installations	TI02329
Basic Conduit Theory	TI02084
Tools and Meters	TI02082
Blueprint Reading	TI02601
Alternative Current Theory	TI02573
Environmental Electrical Practices	TI02085
Electrical Distribution in Construction	TI02589
Electric Motor Control	TI02500
Direct Current Circuits	TI00358
National Electrical Code	TI02295



	Heating, Ventilation & Air Conditioning	AC0036016	480	AC0030007	9059	47.0201	49-9021; 49-1011
Course Name	Course Code						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Electricity for HVAC	TI00690						
Heat Pumps	TI01146						
HVAC System Installation and Start-Up	TI0101533						
Principals of Heat Transfer and Thermodynamics	TI02615						
Systems	TI02095						
Refrigeration Handling and Systems	TI02560						
Heat and Air Flow	TI02563						
Zoning, Ductless, and Variable Refrigerant Flow							

	Heating, Ventilation & Air Conditioning	AC0036007	1000	AC0030004	9059/9080	47.0201	49-9021; 49-1011
Course Name	Course Code						
Zoning, Ductless, and Variable Refrigerant Flow	TI02095						
Systems							
Refrigeration Handling and Systems	TI02560						
Heat and Air Flow	TI02563						
Electricity for HVAC	TI00690						
Heat Pumps	TI01146						
HVAC System Installation and Start-Up	TI0101533						
Principals of Heat Transfer and Thermodynamics	TI02615						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						

	Plumbing Assistant	AC0030084	480	AC0030084	9067	46.0503	47-2152
Course Name	Course Code						
Plumbing Utilities	TI02163						
Residential Plumbing	TI02337						
Plumbing System Repair and Diagnosis	TI02160						
Plumbing Systems Repair	TI02535						
Calculations & Drawings	TI02534						
Boilers and Hydronics	TI02165						
Rough- In for Final Phase	TI02162						
Plumbing System Planning and Design	TI02156						
Career Major Capstone - WBL/ Internship	TI02511						
General Safety	TI01650						

	Plumbing	AC0036011	1000	AC0030005	9067/9095	46.0503	47-1011
Course Name	Course Code						

Career Major Capstone - WBL/ Internship	TI02511
Plumbing Utilities	TI02163
Residential Plumbing	TI02337
Plumbing System Repair and Diagnosis	TI02160
Plumbing Systems Repair	TI02535
Introduction to Plumbing Tools and Materials	TI02154
Calculations & Drawings	TI02534
Boilers and Hydronics	TI02165
Rough- In for Final Phase	TI02162
Plumbing System Planning and Design	TI02156
General Safety	TI01650

### Cluster: Arts, Audio/Video Technology

<i>Pathways:</i>	<i>State Program Name:</i>	<i>State Program Code:</i>	<i>State Program Hours:</i>	<i>Local Program Code:</i>	<i>OCAS Code:</i>	<i>CIP:</i>	<i>SOC:</i>
AR001 - Audio and Video Technology	Audio and Video Technology	AR0016000	480	AR0020005	9127/ 9168	9.0702; 10.0299	15-1255; 27-4011

Course Name	Course Code
Production Techniques	TI00781
Video/Camera	TI00188
Copyright Law	TI00448
Advanced Digital Software	TI01513
Design and Layout	TI00269
Introduction To Digital Photo Manipulation	TI01391
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Animation	TI01389
Audio Production	TI00785
Audio/Video Pre-Production	TI02770
Audio/Video Post-Production	TI02771
Design and Color Principles	TI00736
Image Capture	TI00267
Image Manipulation	TI00311
Proofing Principles	TI00271
Studio/Strobe Techniques	TI00499

	Audio and Video Technology	AR0066005	960	AR0020002	9127/ 9168	9.0702; 10.0299	15-1255; 27-4011
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Course Name	Course Code
Audio/Video Post-Production	TI02771
Design and Color Principles	TI00736
Image Capture	TI00267
Image Manipulation	TI00311
Proofing Principles	TI00271
Studio/Strobe Techniques	TI00499
Production Techniques	TI00781
Video/Camera	TI00188

Copyright Law	TI00448
Advanced Digital Software	TI01513
Design and Layout	TI00269
Introduction To Digital Photo Manipulation	TI01391
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Animation	TI01389
Audio Production	TI00785
Audio/Video Pre-Production	TI02770

AR004 - Printing Technology	Graphic Communications	AR0046002	480	AR0040022	9133/ 9144	10.0301	51-5111
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Graphics Installation	TI01745
Finishing Operations	TI00450
Branding and Identity Design	TI01267
Color Grading	TI00042
Copy Preparation, Design And Layout	TI01699
Typography	TI00391
Screen Printing and Vinyl Art Preparation	TI00315
Publication Design	TI00488
Production Techniques	TI00781
Photo Software and Digital Images	TI02323
Page Layout Advertising Design	TI00008
Offset Presswork	TI01704
Image Manipulation	TI00311
Image Capture	TI00267
Illustration	TI02752

Graphic Communications	AR0066006	960	AR0060036	9133/ 9144	10.0301	51-5111
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Graphics Installation	TI01745
Finishing Operations	TI00450
Branding and Identity Design	TI01267
Color Grading	TI00042
Copy Preparation, Design And Layout	TI01699
Typography	TI00391
Screen Printing and Vinyl Art Preparation	TI00315
Publication Design	TI00488
Production Techniques	TI00781

Photo Software and Digital Images	TI02323
Page Layout Advertising Design	TI00008
Offset Presswork	TI01704
Image Manipulation	TI00311
Image Capture	TI00267
Illustration	TI02752

AR006 - Visual Arts	3D Gaming Design	AR0046000	480	AR0060044	9151/ 9152	50.0411	27-1014
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Advanced Animation	TI01711
Advanced Modeling	TI01546
Drawing And Document Management	TI00302
Principles Of Cad Design	TI00445
Fundamentals Of Computer Aided Drafting And Design	TI00365
Presentation Graphics Animation	TI01059
Body Mechanics	TI01390
Animation	TI01389
Introduction To Programming for Games	TI01569
Introduction To Acting	TI00337
Advanced Acting	TI01702
Web Animation	TI00003
Copyright Law	TI00448
Advanced Post-Production Techniques	TI00187
Design and Layout	TI00269
Production Techniques	TI00781
Video Systems - Pre-Production	TI00183

3D Gaming Design	AR0066007	960	AR0060030	9151/ 9152	50.0411	27-1014
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Course Name	Course Code
Career Major Capstone - WBL/ Internship	TI02511
Advanced Animation	TI01711
Advanced Modeling	TI01546
Introduction To Programming for Games	TI01569
General Safety	TI01650
Advanced Acting	TI01702
Web Animation	TI00003
Video Systems - Pre-Production	TI00183
Design and Layout	TI00269
Advanced Post-Production Techniques	TI00187
Drawing And Document Management	TI00302
Introduction To Acting	TI00337

Fundamentals Of Comp+515:528uter Aided Drafting And Design	TI00365
Principles Of Cad Design	TI00445
Copyright Law	TI00448
Production Techniques	TI00781
Presentation Graphics Animation	TI01059
Animation	TI01389
Body Mechanics	TI01390

#### Commercial Photography

AR0066000 480 AR0060045 9130/ 9156 50.0406 27-4021

Course Name	Course Code
Portrait Photography	TI00210
Photography Lighting	TI00217
Digital Photography	TI00449
Studio Photography	TI01183
Fundamentals To Portfolio Development	TI01383
Digital Equipment/Software	TI01482
Software/Portraiture/Digital Effects	TI01514
Digital Effects/Portfolio	TI01516
Advanced Modeling	TI01546
Copyright Law	TI00448
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

#### Commercial Photography

AR0066008 960 AR0060042 9130/ 9156 50.0406 27-4021

Course Name	Course Code
Portrait Photography	TI00210
Photography Lighting	TI00217
Digital Photography	TI00449
Studio Photography	TI01183
Fundamentals To Portfolio Development	TI01383
Digital Equipment/Software	TI01482
Software/Portraiture/Digital Effects	TI01514
Digital Effects/Portfolio	TI01516
Advanced Modeling	TI01546
Copyright Law	TI00448
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

#### Web Design and Development

AR0066004 480 AR0060017 9140/ 9141 11.0801 27-1024

Course Name	Course Code
Career Major Capstone - WBL/ Internship	TI02511
General Safety	TI01650

Design and Layout	TI00269
Copyright Law	TI00448
Page Layout Advertising Design	TI00008
Color Grading	TI00042
Advanced Desktop Publishing and Graphic Design	TI00195
Web Animation	TI00003
Image Manipulation	TI00311
Fundamentals To Portfolio Development	TI01383
Proofing Principles	TI00271

	Web Design and Development	AR0066009	960	AR0060046	9140/ 9141	11.0801	27-1024
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Course Name	Course Code
Web Animation	TI00003
Page Layout Advertising Design	TI00008
Color Grading	TI00042
Advanced Desktop Publishing and Graphic Design	TI00195
Design and Layout	TI00269
Proofing Principles	TI00271
Image Manipulation	TI00311
Copyright Law	TI00448
Fundamentals To Portfolio Development	TI01383
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

### Cluster: Energy & Power - EP

Pathways:	State Program Name:	State Program Code:	State Program	Local Program Code:	OCAS Code:	CIP:	SOC:
EP003- Maintenance, Installation and Repair	Broadband Installer	EP0020006	480	EP0020001	9736 /9737	47.0103	49-2022

Course Name	Course Code
General Safety	TI01650
Conductor Installation and Repair	EPD145
Career Major Capstone - WBL/ Internship	TI02511
Broadband Digital Installer	EP0106
Broadband Wireless Digital Installer	EP0107
Broadband Fiber Digital Installer	EP0108
Equipment Operations	EPD120

	Electrical Lineman	EP0020002	1000	EP0020000	9961	46.0301	49-9051
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Course Name	Course Code
Career Major Capstone - WBL/ Internship	TI02511
Fusing & System Coordination	EPD170
Substation & Voltage Regulation	EPD180
Service Installation and Metering	EPD140

Conductor Installation and Repair	EPD145
General Safety	TI01650
Pole Climbing Skills	EPD105
Setting and Replacing Poles	EPD125
Basic Transformer Theory and Transformer Installation	EPD1376
Pole Framing and Construction Specifications	EPD110
Equipment Operations	EPD120
Rubber Gloving and Hot Sticking Methods	EPD155
Principles Underground Distribution	EPD160
Basic Electricity	TI01445

Electrical  
Lineman 2 ADULT  
ONLY

EP0020004

1320

EP0021001

n/a

46.0303

49-9051

Course Name	Course Code
Career Major Capstone - WBL/ Internship	TI02511
Substation & Voltage Regulation	EPD180
Basic Electricity	TI01445
General Safety	TI01650
Pole Climbing Skills	EPD105
Pole Framing and Construction Specifications	EPD110
Equipment Operations	EPD120
Setting and Replacing Poles	EPD125
Basic Transformer Theory and Transformer Installation	EPD1376
Service Installation and Metering	EPD140
Conductor Installation and Repair	EPD145
Rubber Gloving and Hot Sticking Methods	EPD155
Principles Underground Distribution	EPD160
Fusing & System Coordination	EPD170

Industrial  
Mechanic Assistant

EP0020010

480

EP0021002

9736/9737

15.0403

17-3024

Course Name	Course Code
Electric Motor Control	TI02500
Motor Controls	TI02711
Industrial Mechanics	TI02185
Industrial Print Reading	TI01426
Industrial Electrical Wiring	TI02128
Programmable Logic Controllers	TI02504
Mechanical Drive Systems	TI00700
Mechanical Systems	TI02501
Basic Electrical Theory	TI00041
Control Devices	TI02186
General Safety	TI01650

Career Major Capstone - WBL/ Internship

TI02511

Industrial  
Mechanic

EP0020011

960

EP0021003

9736/9737

15.0403

17-3024

Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Electric Motor Control	TI02500
Motor Controls	TI02711
Industrial Mechanics	TI02185
Industrial Print Reading	TI01426
Industrial Electrical Wiring	TI02128
Programmable Logic Controllers	TI02504
Mechanical Drive Systems	TI00700
Mechanical Systems	TI02501
Basic Electrical Theory	TI00041
Control Devices	TI02186

Pipeline  
Technology

EP0020012

1000

EP0021004

9935/9936

15.0903

19-4041

Course Name	Course Code
Introduction to Pipelines	TI02713
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Pipeline Construction	TI0101555
Pipeline Maintenance	TI0101557
Pipeline Tests and Repairs	TI0101559
Pipeline Communications, Pipeline Monitoring And Control Center Operations	TI01903
Pipeline Excavation, Inspection And Repairs	TI01911
Pipeline Blueprint Reading And Internal Inspection	TI01915
Hydrostatic Testing And Pipeline Disconnection/Purging	TI01922

Underground  
Utility Locating  
Technician

EP0020005

480

EP0020009

9736

47.0103

43-2099

Course Name	Course Code
Industry Orientation	TI02142
Theory of Electromagnetic locating	TI02143
Equipment Orientation	TI02144
Cable TV Facilities	TI02145
Telephone Facilities	TI02146



Electric Facilities	TI02147
Fiber Optic Facilities	TI02149
Career Major Capstone - WBL/ Internship	TI02511
General Safety	TI01650
Natural Gas Facilities	TI02437

Wind Energy	EP0020001	800	EP0021005	9736 /9737	15.0303	17-3023
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Course Name	Course Code
Electrical Schematic and Blueprint Reading	TI02339
Career Major Capstone - WBL/ Internship	TI02511
General Safety	TI01650
Motor Control Wiring	TI00261
Basic Electrical Theory	TI00041
Instruments And Measurements For Electronics Technicians	TI00629
Instrumentation And Control	TI00944
Industrial Electricity	TI00470
Hydraulics And Pneumatics In Wind Energy Operations	TI01356
Electronics Hand And Power Tools For Electronics Technicians	TI00539
Electromechanical Devices And Applications	TI00471

### Cluster: Human Services - HM

Pathways:	State Program Name:	State Program Code:	State Program Hours:	Local Program Code:	OCAS Code:	CIP:	SOC:
HM004 - Personal Care Services	Barber	HM0046001	1500	HM0040013	9477 /9487	12.0402	39-5011

Course Name	Course Code
ANATOMY, PHYSIOLOGY, CHEMISTRY, ELECTRICITY, PROPERTIES OF SKIN, SCALP & HAIR, HAIR & SCALP TREATMENTS	TI01248
CHEMICAL RELAXER, SOFT CURL PERMS, & PERMANENT WAVES	TI01254
FACIAL MASSAGE & TREATMENT	TI01236
HAIRCUTTING & STYLING	TI01237
HAIR COLORING	TI01250
BOARD RULES, REGULATIONS, AND STATUTES	TI01233
MEN'S HAIRPIECES, MUSTACHE, BEARD DESIGN, & SHAVING	TI01244
SAFE WORK PRACTICES, INFECTIONAL CONTROL, BACTERIOLOGY, & SAFETY, ETC.	TI01241
SALESMANSHIP, JOB SEARCH, SHOP MANAGEMENT, HISTORY, & PROFESSIONAL IMAGE	TI01234

Barber  
Crossover

HM0040013	300	HM0040014	9477	12.0402	39-5011
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Course Name	Course Code
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The Science of Barbering TI01933  
 Basic Barbering Services TI01934

	Cosmetology	HM0040006	1000	HM0040006	9478/ 9488	12.0401	39-5012; 39-5091;
Course Name	Course Code						
FACIAL (SKIN CARE TRAINING)	TI00123						
MANICURE/PEDICURE	TI00120						
PROFESSIONAL DEVELOPMENT, MANAGEMENT, & EXAM REVIEW, ETC.	TI00127						
HAIR COLOR & OTHER COLOR TREATMENTS	TI00122						
CHEMICAL TEXTURIZING TREATMENTS	TI00121						
HAIR CUTTING & SHAPING	TI00119						
HAIRSTYLING	TI00118						
COSMETOLOGY THEORY	TI00116						
SCALP TREATMENTS, SHAMPOOING/CONDITIONING TREATMENTS	TI00117						

	Cosmetology	HM0046002	1500	HM0040003	9478/ 9488	12.0401	39-5012; 39-5091;
Course Name	Course Code						
FACIAL (SKIN CARE TRAINING)	TI00123						
MANICURE/PEDICURE	TI00120						
PROFESSIONAL DEVELOPMENT, MANAGEMENT, & EXAM REVIEW, ETC.	TI00127						
HAIR COLOR & OTHER COLOR TREATMENTS	TI00122						
CHEMICAL TEXTURIZING TREATMENTS	TI00121						
HAIR CUTTING & SHAPING	TI00119						
HAIRSTYLING	TI00118						
COSMETOLOGY THEORY	TI00116						
SCALP TREATMENTS, SHAMPOOING/CONDITIONING TREATMENTS	TI00117						

	Esthetics	HM0046003	600	HM0040002	9481 /9490	12.0409;12.0414;1 2.0408	39-5094
Course Name	Course Code						
BOARD RULES, REGULATIONS, & STATUTES	TI00400						
OF THE SKIN	TI00673						
FACIALS	TI00136						
BACTERIOLOGY, DISINFECTION, SANITATION. & SAFETY	TI00981						
NON-PERMANENT HAIR REMOVAL	TI00135						
SALON DEVELOPMENT	TI01005						
SCIENCES:HISTOLOGY, DERMATOLOGY, & PHYSIOLOGY							

	Manicurist/Nail Technician	HM0046004	600	HM0040001	9483 /9491	12.0410;12.0413	39-5092
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Course Name	Course Code
ARTIFICIAL NAILS	TI00140
BOARD RULES, REGULATIONS, & STATUTES	TI00400
DISEASES	TI00984
NAIL STRUCTURE, COMPOSITION, DISORDERS, & MANICURE/PEDICURE	TI00139
NAIL ART	TI00988
BACTERIOLOGY, DISINFECTION, & SANITATION	TI00138
Pedicures	TI00738
ESTABLISHMENT DEVELOPMENT	TI00137

	Master Instructor	HM0040007	1000	HM0040007	9478/ 9488	12.0401	39-5012; 39-5091
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Course Name	Course Code
Law, Beauty School Management, And Record Keeping	TI00769
Orientation And Review Of Cosmetology Curriculum	TI00670
Course Outline And Development	TI00949
Introduction To Teaching	TI00948
Practice Teaching In The Classroom And Clinic	TI00672
Teaching And Assisting In The Classroom And Clinic	TI00671

	Practicing Master Instructor	HM0040008	300	HM0040008	9478 /9488	12.0401	39-5012;39-5091
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Course Name	Course Code
Law, Beauty School Management, And Record Keeping	TI00769
Course Outline And Development	TI00949
Orientation And Review Of Cosmetology Curriculum	TI00670
Practice Teaching In The Classroom And Clinic	TI00672
Introduction To Teaching	TI00948
Teaching And Assisting In The Classroom And Clinic	TI00671

### Cluster: Law, Public Safety,

Pathways:	State Program Name:	State Program Code:	State Program Hours:	Local Program Code:	OCAS Code:	CIP:	SOC:
LW004 - Law Enforcement Services	Basic Peace Officer	LW0040029	700	LW0040047	n/a	43.0107	33-3051

Course Name	Course Code
Standard Field Sobriety Test	TI01208
Ethics And Professional Behavior In Law Enforcement	TI01538
General Safety	TI01650
Applied Concepts In Fitness For Law Enforcement	TI01657
Criminal Law/Procedures	TI00932
Report Writing	TI01554

Law Enforcement Equipment And Weapons	TI00507
Police Function And Fundamentals	TI00512
Traffic Management & Accident Investigation	TI00807
Criminal Justice Orientation	TI00596
National Incident Management Systems	TI00979
Community Policing	TI01927
Defensive Tactics & Physical Fitness	TI00506
Criminal Investigation and Evidence	TI00511
Law Enforcement Vehicle Operations and Training	TI00983
Firearm Safety, Marksmanship And Combat Tactics	TI00191
Custody and Control	TI02120
T&I First Aid & CPR	TI02153

#### Criminal Justice

LW0046000

480

LW0040003

9629 /9638

43.0199;43.0107

33-3012

Course Name	Course Code
Digital Forensics	TI01334
Forensic Anthropology	TI01335
Blood Splatter Analysis	TI02167
Forensic Entomology	TI02168
Death Investigation	TI02169
Narcotics and Clandestine Lab Investigations	TI02170
T&I First Aid & CPR	TI02153
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Criminal Law/Procedures	TI00932
Defensive Tactics & Physical Fitness	TI00506
Cleet Phase I	TI00179
Cleet Phase II	TI00177
Criminal Evidence	TI00225
Police Function And Fundamentals	TI00512
Traffic Management & Accident Investigation	TI00807
Drones	TI02061

#### Criminal Justice Advanced

LW0046001

960

LW0040033

9629 /9638

43.0199;43.0107

33-3012

Course Name	Course Code
General Safety	TI01650
T&I First Aid & CPR	TI02153
Blood Splatter Analysis	TI02167
Forensic Entomology	TI02168
Cleet Phase I	TI00179
Criminal Evidence	TI00225
Defensive Tactics & Physical Fitness	TI00506
Police Function And Fundamentals	TI00512
Traffic Management & Accident Investigation	TI00807

Criminal Law/Procedures	TI00932
Digital Forensics	TI01334
Forensic Anthropology	TI01335
Drones	TI02061

LW002 - Emergency & Fire Management Services	Firefighter	LW0026000	480	LW0020004	9630 /9645	43.0203	33-2011
Course Name	Course Code						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
National Incident Management Systems	TI00979						
Hazardous Materials Awareness	TI01009						
Firefighter II	TI01008						
Firefighter I	TI01136						
Traffic Management & Accident Investigation	TI00807						
Firefighter Physical Training	TI01877						
Flammable Liquid And Gas Emergencies	TI01014						
Basic Vehicle Extrication	TI01012						
Basic Firefighter Evaluations And Testing	TI01191						
T&I First Aid & CPR	TI02153						
Wildland Firefighting Fundamentals	TI01566						

	Firefighter	LW0046002	960	LW0020006	9630 /9645	43.0203	33-2011
Course Name	Course Code						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
T&I First Aid & CPR	TI02153						
Firefighter II	TI01008						
Firefighter I	TI01136						
Hazardous Materials Awareness	TI01009						
National Incident Management Systems	TI00979						
Firefighter Certification Review	TI00817						
Vehicle/Machinery Extrication	TI00544						

	Firefighter/EM T Academy	LW0020061	1050	LW0020066	9630/9645	43.0203;51.0810	33-2011; 53-3011
Course Name	Course Code						
Flammable Liquid And Gas Emergencies	TI01014						
Wildland Firefighting Fundamentals	TI01566						
Vehicle/Machinery Extrication	TI00544						
Basic Firefighter Evaluations And Testing	TI01191						
EMT Certification Review	TI01274						
Firefighter Certification Review	TI00817						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						

National Incident Management Systems	TI00979
Hazardous Materials Awareness	TI01009
Firefighter II	TI01008
Firefighter I	TI01136
Hazardous Materials Operations Level	TI01010
Traffic Management & Accident Investigation	TI00807
Firefighter Physical Training	TI01877
EMT Basic	TI00966
Basic Emt Firefighter Medical And Physical	TI00952
Requirement For Firefighters	
T&I First Aid & CPR	TI02153

### Cluster: Manufacturing - MN

<i>Pathways:</i>	<i>State Program Name:</i>	<i>State Program Code:</i>	<i>State Program</i>	<i>Local Program Code:</i>	<i>OCAS Code:</i>	<i>CIP:</i>	<i>SOC:</i>
MN001 - Manufacturing Production Process Development	Applied Engineering Technology	MN0016001	480	MN0010002	9876/ 9877	15.0403	17-3024
<b>Course Name</b>	<b>Course Code</b>						
Production Process Tech 1	TI007						
Production Process Tech 2	TI008						
	Computer Aided Drafting	MN00116002	480	MN0010007	9681	15.1302	17-3011;17-3013
<b>Course Name</b>	<b>Course Code</b>						
Material and Equipment Specifications	TI00625						
Drawing And Document Management	TI00302						
CAD Architectural	TI00375						
CAD Civil	TI00372						
CAD Engineering	TI10151						
CAD Mechanical	TI00462						
Fundamentals and Applications in CAD	TI01406						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
	Computer Aided Drafting	MN0016000	960	MN0010008	9681/ 9682	15.1302	17-3011;17-3013
<b>Course Name</b>	<b>Course Code</b>						
Drawing And Document Management	TI00302						
Plan Reading And Elevations	TI00923						
Material And Equipment Specifications	TI00625						
Career Major Capstone - WBL/ Internship	TI02511						
CAD Engineering	TI10151						
CAD Mechanical	TI00462						
Fundamentals and Applications in CAD	TI01406						
General Safety	TI01650						

CAD Architectural  
CAD Civil

TI00375  
TI00372

MN002 - Production	CNC Machining Assistant	MN0011603	480	MN0110002	48.0510; 48.0503	51-4012; 51-4081; 51-9161; 51-4034
Course Name						
CNC Machining I	TI02628					
CNC Machining II	TI02629					
CNC Programming and Mastercam	TI0101580					
Computer Numerical Control Setup and Operations	TI0101581					
Precision Machining Theory	TI0101582					
Fundamentals of Manufacturing	TI02476					
General Safety	TI01650					
Career Major Capstone - WBL/ Internship	TI02511					
Industrial Print Reading	TI01426					
Production Process	TI007					
CNC Milling Programming	TI014211					
CNC Lathe Programming	TI014301					

	CNC Machining	MN0026000	600	MN0020006	9679 /9680	48.0510; 48.0503	51-4012; 51-4081; 51-9161; 51-4034
Course Name	Course Code						
CNC Programming and Mastercam	TI0101580						
Computer Numerical Control Setup and Operations	TI0101581						
Precision Machining Theory	TI0101582						
Career Major Capstone - WBL/ Internship	TI02511						
General Safety	TI01650						
Industrial Print Reading	TI01426						
Production Process	TI007						
CNC Milling Programming	TI014211						
CNC Lathe Programming	TI014301						
Fundamentals of Manufacturing	TI02476						
CNC Machining II	TI02629						
CNC Machining I	TI02628						

	CNC Machining Advanced	MN0011604	960	MN0020014	9679 /9680	48.0510; 48.0503	51-4012; 51-4081; 51-9161; 51-4034
Course Name	Course Code						
CNC Machining I	TI02628						
CNC Machining II	TI02629						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Industrial Print Reading	TI01426						
Production Process	TI007						
CNC Milling Programming	TI014211						

CNC Lathe Programming	TI014301
CNC Programming and Mastercam	TI0101580
Computer Numerical Control Setup and Operations	TI0101581
Precision Machining Theory	TI0101582
Fundamentals of Manufacturing	TI02476

	Manual Machining	MN0116001	480	MN0020004	9697 / 9698	48.0501	51-4199
Course Name	Course Code						
Manual Lathe II	TI02631						
Manual Milling I	TI02632						
Manual Milling II	TI02633						
Fundamentals of Manufacturing	TI02476						
Manual Lathe I	TI02630						
Career Major Capstone - WBL/ Internship	TI02511						
General Safety	TI01650						
Industrial Print Reading	TI01426						
Production Process	TI007						
Precision Machining Theory	TI0101582						

	Manual Machining	MN0026001	960	MN0020015	9697 / 9698	48.0501	51-4199
Course Name	Course Code						
Production Process	TI007						
Precision Machining Theory	TI0101582						
Industrial Print Reading	TI01426						
General Safety	TI01650						
Fundamentals of Manufacturing	TI02476						
Career Major Capstone - WBL/ Internship	TI02511						
Manual Lathe I	TI02630						
Manual Lathe II	TI02631						
Manual Milling I	TI02632						
Manual Milling II	TI02633						

MN003 - Maintenance, Installation & Repair	Industrial Motor Control	MN0011605	480	MN0030071	9684 / 9685	47.0105	17-3026
Course Name	Course Code						
Mechatronics/Instrumentation Systems	TI02733						
Mechanical Drive Systems	TI00700						
Industrial Print Reading	TI01426						
General Safety	TI01650						
Pneumatics	TI02062						
Precision Measurement	TI02065						
Process Control	TI02064						
Industrial Electrical Wiring	TI02128						
Industrial Mechanics	TI02185						



Career Major Capstone - WBL/ Internship	TI02511
Programmable Applications	TI02188
Energy Transmission and Distribution	TI02436
Electric Motor Control	TI02500
AC/DC Electrical Systems	TI02502
Programmable Logic Controllers	TI02504
Power Distribution	TI02721

Industrial  
Motor Control

MN0036000

960

MN0030062

9684 / 9685

47.0105

17-3026

Course Name	Course Code
Career Major Capstone - WBL/ Internship	TI02511
Power Distribution	TI02721
Mechatronics/Instrumentation Systems	TI02733
Mechanical Drive Systems	TI00700
Industrial Print Reading	TI01426
General Safety	TI01650
Pneumatics	TI02062
Process Control	TI02064
Precision Measurement	TI02065
Industrial Electrical Wiring	TI02128
Industrial Mechanics	TI02185
Programmable Applications	TI02188
Energy Transmission and Distribution	TI02436
Electric Motor Control	TI02500
AC/DC Electrical Systems	TI02502
Programmable Logic Controllers	TI02504

Robotic  
Systems Technician

MN0030045

480

MN0030045

9723

15.0405

17-3024

Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Robotics	TI02063
Drones	TI02061
Industrial Print Reading	TI01426
Precision Measurement	TI02065
Programmable Logic Controllers	TI02504
Motors & Generators	TI02717
Automation	TI02714

	Mechatronics Production and Automation	MN0011606	480	MN0030014	9723 / 9724	15.0406	49-9069
Course Name	Course Code						
Hydraulics	TI02719						
Variable Frequency Drives	TI02603						
Industrial Mechanics	TI02185						
Mechanical Systems	TI02501						
Mechatronics/Instrumentation Systems	TI02733						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Industrial Print Reading	TI01426						
Precision Measurement	TI02065						
Industrial Electrical Wiring	TI02128						
Automation	TI02714						
Motor Controls	TI02711						
Batteries, Energy Storage & Power Supplies	TI02715						
Motors & Generators	TI02717						

	Mechatronics Production and Automation	MN0036001	960	MN0030049	9723 / 9724	15.0406	49-9069
Course Name	Course Code						
AC/DC Electrical Systems	TI02502						
Pneumatics	TI02062						
Industrial Mechanics	TI02185						
Fluid Power	TI02730						
Mechatronics/Instrumentation Systems	TI02733						
Variable Frequency Drives	TI02603						
Control Devices	TI02186						
Programmable Applications	TI02188						
Process Control	TI02064						
Mechanical Systems	TI02501						
Hydraulics	TI02719						
Automation	TI02714						
Precision Measurement	TI02065						
Mechanical Drive Systems	TI00700						
Industrial Print Reading	TI01426						
General Safety	TI01650						
Industrial Electrical Wiring	TI02128						
Energy Transmission and Distribution	TI02436						
Electric Motor Control	TI02500						

MN007 - Welding and Metal Fabrication	Metal Fabrication	MN011603	480	MN0070014	9702	48.0511	51-4121
Course Name	Course Code						
Fundamentals of Metal Fabrication	TI02593						

Advanced Weld Symbols and Plan Reading	TI02348
Advanced Metal Cutting and Fabrication	TI02347
Shielded Metal Arc Welding	TI02340
Advanced Shielded Metal Arc Welding	TI02345
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Gas Metal Arc Welding	TI02341
Gas Tungsten Arc Welding	TI02343
Advanced Gas Tungsten Arc Welding	TI02346

	Metal Fabrication	MN0011607	600	MN0070038	9702/9705/9708/9735	48.0511	51-4121
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Course Name	Course Code
Fundamentals of Metal Fabrication	TI02593
Advanced Weld Symbols and Plan Reading	TI02348
Advanced Metal Cutting and Fabrication	TI02347
Shielded Metal Arc Welding	TI02340
Advanced Shielded Metal Arc Welding	TI02345
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Gas Metal Arc Welding	TI02341
Gas Tungsten Arc Welding	TI02343
Advanced Gas Tungsten Arc Welding	TI02346

	Metal Fabrication	MN0011608	960	MN0070026	9702/9705/9708/9714/ 9735	48.0511	51-4121
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Course Name	Course Code
Fundamentals of Metal Fabrication	TI02593
Advanced Weld Symbols and Plan Reading	TI02348
Advanced Metal Cutting and Fabrication	TI02347
Shielded Metal Arc Welding	TI02340
Advanced Shielded Metal Arc Welding	TI02345
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Gas Metal Arc Welding	TI02341
Gas Tungsten Arc Welding	TI02343
Advanced Gas Tungsten Arc Welding	TI02346

	Welding	MN0116002	480	MN0070029	9707	48.0508; 48.0511	51-4121; 51-4122; 51-2041
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Precision Grinding	TI00364
Oxyfuel Cutting	TI00380

Welding Fundamentals	TI01204
Shielded Metal Arc Welding	TI02340
Gas Metal Arc Welding	TI02341
Gas Tungsten Arc Welding	TI02343

	Welding	MN0011609	600	MN0070030	9707 /9708	48.0508; 48.0511	51-4121; 51-4122; 51-2041
Course Name	Course Code						
Advanced Weld Symbols and Plan Reading	TI02348						
Precision Grinding	TI00364						
Advanced Metal Cutting and Fabrication	TI02347						
Shielded Metal Arc Welding	TI02340						
Advanced Shielded Metal Arc Welding	TI02345						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Welding Plans and Symbols	TI02344						
Gas Metal Arc Welding	TI02341						
Gas Tungsten Arc Welding	TI02343						
Advanced Gas Tungsten Arc Welding	TI02346						
Fundamentals of Metal Fabrication	TI02593						

	Welding	MN0011610	960	MN0070025	9707 /9708	48.0508; 48.0511	51-4121; 51-4122; 51-2041
Course Name	Course Code						
Advanced Weld Symbols and Plan Reading	TI02348						
Precision Grinding	TI00364						
Advanced Metal Cutting and Fabrication	TI02347						
Shielded Metal Arc Welding	TI02340						
Advanced Shielded Metal Arc Welding	TI02345						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Gas Metal Arc Welding	TI02341						
Welding Plans and Symbols	TI02344						
Gas Tungsten Arc Welding	TI02343						
Advanced Gas Tungsten Arc Welding	TI02346						
Fundamentals of Metal Fabrication	TI02593						

## Cluster: Transportation, Distribution &

Pathways:	State Program Name:	State Program	State Program	Local Program Code:	OCAS Code:	CIP:	SOC:
TR006	Agriculture Mechanics-TR	TR0106001	960	TR0100009	9946/9947	1.0205	49-3041
Course Name	Course Code						
Career Major Capstone - WBL/ Internship	TI02511						
Ag Mech Electrical Systems	TI00601						

General Safety TI01650

Introduction and Orientation to Ag Mech Diesel TI00379

Ag Mech Welding Applications TI00606

Ag mech Preventive Maintenance Inspection and TI00057

Ag Mech Power Trains TI00598

Ag Mech Machinery Maintenance Fundamentals TI00597

Ag Mech Heating and Air Conditioning Service and TI00021

Ag Mech Fluid Power TI00600

TR001 - Transportation Operations

Private Pilot

TR0016000

480

TR0010002

9917

49.0105

53-2022

Course Name	Course Code
Aviation Fundamentals	TR00004
Aviation Operations	TR00005

Truck Driver  
Training

TR0156001

240

TR015009

9920

49.0205

53-3032

Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Commerical Drivers License Class	TI02100

Truck Driver  
Training

TR0016001

600

TR0010003

9920

49.0205

53-3032

Course Name	Course Code
Professional Truck Driver Advanced Operating Practices	TI01375
Professional Truck Driver Basic Operation	TI01372
Professional Truck Driver Non-Vehicle Activites	TI01371
Professional Truck Driver Safety Operation Practices	TI01374
Professional Truck Driver Vehicle Maintenance	TI01379
Entry Level Truck Driver Training	TI01963
Intro Behind the Wheel Training	TI01964

TR004 - Facility and Mobile Equipment Maintenance

Marine Repair  
Technology

TR0046001

960

TR0040003

9911/ 9926

47.0616

49-3051

Course Name	Course Code
Marine Boat Rigging And Engine Installation	TI00680
Marine Electrical Systems	TI00455
Marine Engine Mechanical	TI00350

Marine Fuel Systems	TI00770
Marine Lower Units	TI00832
Marine Orientation	TI00833
Marine Power Trim And Hydraulics	TI00834
Marine Service Literature	TI00835
Marine Service Tools And Products	TI00454
Marine Winterizing And Extended Storage	TI00836
Marine Repair Advanced II	TI02174
Marine Repair Basic II	TI02172
Marine Repair Basics I	TI02171
Marine Repair Advanced I	TI02173
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

	Motorcycle Technology	TR0046002	960	TR0040004	9914/ 9927	47.0611	49-3052
Course Name	Course Code						
Motorcycle Drivetrain Service	TI00354						
Motorcycle Electronic/Electrical Systems Maintenance	TI00289						
Motorcycle Engine Fuel Systems Maintenance	TI00291						
Motorcycle Engine Overhaul	TI00841						
Motorcycle Preventative Maintenance	TI00840						
Motorcycle Suspension Components Service	TI00290						
Motorcycle Technician Personal, Shop, And Administrative Functions	TI00288						
Motorcycle Wheels, Tires, & Braking Systems Service	TI00843						
Power Equipment Preventative Maintenance	TE00014						
Power Equipment Electrical System Maintenance	TR00001						
Personal Water Propulsion System Maintenance	TR00002						
Power Equipment Operation	TR00003						
Carburetion, Wheels, Tires, Brakes, Chassis	TI2051						
Electrical, Ignition, Cooling & Exhaust	TI2052						
Maintenance & Top End Engine	TI2053						
Engines, Transmissions & Fuel Injection	TI2054						
Career Major Capstone - WBL/ Internship	TI02511						
General Safety	TI01650						

TR008 - Automotive Service	Automotive Service Technology MLR	TR0086000	540	TR0080030	9906/ 9907	47.0600; 47-0604	49-3023
Course Name	Course Code						
Automotive Heating And Air Conditioning (ASE Aligned)	TI01741						
Automotive Automatic Transmission And Transaxle (ASE Aligned)	TI01742						
Automotive Manual Drivetrain And Axles (ASE Aligned)	TI01743						
General Safety	TI01650						

Career Major Capstone - WBL/ Internship	TI02511
Automotive Brakes (ASE Aligned)	TI01719
Automotive Electrical & Electronics II (ASE Aligned)	TI02432
Fundamentals of Automotive Service A (ASE Aligned)	TI02595
Automotive Automatic Transmission (ASE Aligned)	TI02599
Fundamentals Of Automotive Service (ASE Aligned)	TI01609
Automotive Brakes (ASE Aligned)	TI01610
Automotive Steering & Suspension (ASE Aligned)	TI01737
Automotive Electrical & Electronics (ASE Aligned)	TI01738
Automotive Engine Performance (ASE Aligned)	TI01739
Automotive Engine Repair (ASE Aligned)	TI01740

	Automotive Service Technology	TR0156602	960	TR0080025	9906/ 9907	47.0600; 47-0604	49-3023
Course Name	Course Code						
Automotive Heating And Air Conditioning (ASE Aligned)	TI01741						
Automotive Automatic Transmission And Transaxle (ASE Aligned)	TI01742						
Automotive Manual Drivetrain And Axles (ASE Aligned)	TI01743						
Automotive Steering & Suspension (ASE Aligned)	TI01737						
Automotive Electrical & Electronics (ASE Aligned)	TI01738						
Automotive Engine Performance (ASE Aligned)	TI01739						
Automotive Engine Repair (ASE Aligned)	TI01740						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Automotive Brakes (ASE Aligned)	TI01719						
Automotive Electrical & Electronics II (ASE Aligned)	TI02432						
Fundamentals of Automotive Service A (ASE Aligned)	TI02595						
Fundamentals of Automotive Service B (ASE Aligned)	TI02596						
Automotive Automatic Transmission (ASE Aligned)	TI02599						
Fundamentals Of Automotive Service (ASE Aligned)	TI01609						
Automotive Brakes (ASE Aligned)	TI01610						

TR009 - Automotive Collision Repair	Automotive Collision Repair and Refinishing	TR0156011	480	TR0090012	9904 /9905	47.0603	49-3021
Course Name	Course Code						
General Safety	TI01650						
Career Major Capstone - WBL/ Internship	TI02511						
Technical Applications I	TI02036						
Auto Collision Electrical/Electronics	TI02192						
Auto Collision Non-Structural Repair	TI02625						
Auto Collision Structural Analysis and Repair	TI2037						

Automotive Detailing	TI00283
Automotive Plastic and Adhesives	TI02669
Auto Collision Trim And Hardware	TI00347
Automotive Collision Repair and Refinishing	TI02181

	Automotive Collision Repair and Refinishing	TR0156003	960	TR0090008	9904 /9905	47.0603	49-3021
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Course Name	Course Code
Auto Collision Trim And Hardware	TI00347
Automotive Collision Repair and Refinishing	TI02181
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Painting and Refinishing	TI2036
Auto Collision Electrical/Electronics	TI02192
Auto Collision Non-Structural Repair	TI02625
Auto Collision Structural Analysis and Repair	TI2037
Automotive Detailing	TI00283
Automotive Plastic and Adhesives	TI02669

TR010 - Medium/Heavy Diesel Truck Repair	Medium/Heavy Diesel Service	TR0156004	480	TR0100001	9912	47.0605; 47.0613	49-3031; 49-3023
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Course Name	Course Code
Medium/Heavy Diesel Truck Heating and Air Conditioning	TI02338
Medium/Heavy Diesel Truck Powertrain	TI02349
Medium/Heavy Diesel Truck Preventive Maintenance	TI02409
Medium/Heavy Diesel Truck Tire and Brake Service	TI0101562
Medium/Heavy Diesel Truck Brakes	TI02410
Medium/Heavy Diesel Truck Electricity	TI02408
Medium/Heavy Diesel Truck Drive Train	TI02641
Medium/Heavy Diesel Truck Engine Systems	TI02214
Career Major Capstone - WBL/ Internship	TI02511
General Safety	TI01650
Fundamentals of Medium/Heavy Diesel Truck Technology	TI02734
Medium/Heavy Diesel Service I	TI02177
Medium/Heavy Diesel Service II	TI02178

	Medium/Heavy Diesel Service	TR0156005	600	TR0100013	9912/ 9913	47.0605;47.0613	49-3031; 49-3023
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Course Name	Course Code
Fundamentals of Medium/Heavy Diesel Truck Technology	TI02734



Medium/Heavy Diesel Service I	TI02177
Medium/Heavy Diesel Service II	TI02178
Conditioning	TI02338
Medium/Heavy Diesel Truck Powertrain	TI02349
Medium/Heavy Diesel Truck Preventive Maintenance	TI02409
Medium/Heavy Diesel Truck Heating and Air	TI0101562
Medium/Heavy Diesel Truck Tire and Brake Service	TI02410
Medium/Heavy Diesel Truck Brakes	TI02408
Medium/Heavy Diesel Truck Electricity	TI02641
Medium/Heavy Diesel Truck Drive Train	TI02214
Medium/Heavy Diesel Truck Engine Systems	TI02511
Career Major Capstone - WBL/ Internship	TI01650
General Safety	

Medium/Heavy  
Diesel Service

TR0156006

740

TR0100004

9912/ 9913

47.0605; 47.0613

49-3031; 49-3023

Course Name	Course Code
Medium/Heavy Diesel Truck Drive Train	TI02641
Medium/Heavy Diesel Truck Engine Systems	TI02214
Career Major Capstone - WBL/ Internship	TI02511
General Safety	TI01650
Fundamentals of Medium/Heavy Diesel Truck Technology	TI02734
Medium/Heavy Diesel Service I	TI02177
Medium/Heavy Diesel Service II	TI02178
Medium/Heavy Diesel Truck Heating and Air Conditioning	TI02338
Medium/Heavy Diesel Truck Powertrain	TI02349
Medium/Heavy Diesel Truck Preventive Maintenance	TI02409
Medium/Heavy Diesel Truck Tire and Brake Service	TI0101562
Medium/Heavy Diesel Truck Brakes	TI02410
Medium/Heavy Diesel Truck Electricity	TI02408

Medium/Heavy  
Diesel Service

TR0156012

960

TR0100012

9912/ 9913

47.0605;47.0613

49-3031; 49-3023

Course Name	Course Code
General Safety	TI01650
Fundamentals of Medium/Heavy Diesel Truck Technology	TI02734
Medium/Heavy Diesel Service I	TI02177
Medium/Heavy Diesel Service II	TI02178
Medium/Heavy Diesel Truck Heating and Air Conditioning	TI02338
Medium/Heavy Diesel Truck Powertrain	TI02349
Medium/Heavy Diesel Truck Preventive Maintenance	TI02409

Medium/Heavy Diesel Truck Tire and Brake Service	TI0101562
Medium/Heavy Diesel Truck Brakes	TI02410
Medium/Heavy Diesel Truck Electricity	TI02408
Medium/Heavy Diesel Truck Drive Train	TI02641
Medium/Heavy Diesel Truck Engine Systems	TI02214
Career Major Capstone - WBL/ Internship	TI02511

	Medium/Heavy Diesel Service	TR0156007	1040	TR0100002	9912/ 9913	47.0605;47.0613	49-3031; 49-3023
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Course Name	Course Code
General Safety	TI01650
Fundamentals of Medium/Heavy Diesel Truck Technology	TI02734
Medium/Heavy Diesel Service I	TI02177
Medium/Heavy Diesel Service II	TI02178
Medium/Heavy Diesel Truck Heating and Air Conditioning	TI02338
Medium/Heavy Diesel Truck Powertrain	TI02349
Medium/Heavy Diesel Truck Preventive Maintenance	TI02409
Medium/Heavy Diesel Truck Tire and Brake Service	TI0101562
Medium/Heavy Diesel Truck Brakes	TI02410
Medium/Heavy Diesel Truck Electricity	TI02408
Medium/Heavy Diesel Truck Drive Train	TI02641
Medium/Heavy Diesel Truck Engine Systems	TI02214
Career Major Capstone - WBL/ Internship	TI02511

TR011 - Aerospace Maintenance

A & P Mechanic

TR0156008

672

TR0110005

9901 /9922

47.0607;47.0608

49-3011;51-2011;  
49-2091;17-3021

Course Name	Course Code
Aerospace General II	TI02111
Aerospace General	TI02112
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Powerplant Theory	TI02516
Powerplant III	TI02118
Powerplant II	TI02117
Powerplant I	TI02116
Airframe I	TI02113
Airframe II	TI02114
Airframe III	TI02115
Airframe and Powerplant Electrical Systems	TI02756
Aerospace Structures	TI02041

A & P Mechanic	TR0156013	1920	TR0110016	9901 /9922	47.0607;47.0608	49-3011;51-2011; 49-2091;17-3021
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Course Name	Course Code
Powerplant Theory	TI02516
Powerplant III	TI02118
Powerplant II	TI02117
Powerplant I	TI02116
Airframe I	TI02113
Airframe II	TI02114
Airframe III	TI02115
Airframe and Powerplant Electrical Systems	TI02756
Aerospace Structures	TI02041
Aerospace General II	TI02111
Aerospace General	TI02112
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511

Aerospace Technician	TR0110007	672	TR0110005	9901 /9922	47.0607; 47.0608	49-3011; 51-2011; 49-2091; 17-3022
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Course Name	Course Code
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Aerospace Structures	TI02041
Aerospace General II	TI02111
Aerospace General	TI02112
Ground Operations and Servicing	TI02760

Aerospace Technician	TR0156014	960	TR0110001	9901 /9922	47.0607;47.0608	49-3011; 51-2011; 49-2091; 17-3022
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Course Name	Course Code
Drones	TI02061
Ground Operations and Servicing	TI02760
Aerospace General	TI02112
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Powerplant Theory	TI02516
Powerplant III	TI02118
Powerplant II	TI02117
Powerplant I	TI02116
Airframe I	TI02113
Airframe II	TI02114
Airframe III	TI02115
Airframe and Powerplant Electrical Systems	TI02756

Aerospace Structures	TI02041
Aerospace General II	TI02111

	Aerospace Maintenance Foundations	TR0156009	480	TR0150010	9948/9949	15.0801	17-3021
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Course Name	Course Code
Weight & Balance	TI02759
Non Metallic Structures	TI02751
Non-Destructive Testing	TI02237
Structural Materials	TI02239
Aircraft Sheet Metal	TI02514
Basic Electricity	TI01445
Composite Basics	TI02452
Drones	TI02061
Foundations to Aerospace	TI02040
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Aerospace General	TI02112
Aerospace Structures	TI02041
Aircraft Familiarization	TI02517

	Aerospace Maintenance Foundations	TR0156010	960	TR0110011	9948/9949	15.0801	17-3021
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Course Name	Course Code
Aircraft Familiarization	TI02517
Foundations to Aerospace	TI02040
General Safety	TI01650
Career Major Capstone - WBL/ Internship	TI02511
Aerospace General	TI02112
Aerospace Structures	TI02041
Weight & Balance	TI02759
Non Metallic Structures	TI02751
Non-Destructive Testing	TI02237
Structural Materials	TI02239
Aircraft Sheet Metal	TI02514
Basic Electricity	TI01445
Composite Basics	TI02452
Drones	TI02061