

2015-16 Career and Technical Education Pathways

Arts, Communication & Information

A/V Communications		
A/V		
I	Business Essentials	6720
I	Computer Essentials	5735
T	Audio/Video Production Fundamentals	5744
T	Marketing	6613-6614
T	Computer Graphics*	5741-5742
A	Digital Video Production	5725-5726
A	Digital Media Design & Production	5745-5746
Communications		
I	Business Essentials	6720
I	Computer Essentials	5735
T	21st Century Journalism	5711
T	Fundamentals of Graphic Design	5712
T	Digital Media Technology	5713-5713T*
T	Media & Public Relations	5714
T	Photo Imaging	5715
A	Project Management for Communications	5727-5728
Network Systems		
I	Computer Essentials	5735
T	Networking Systems	5761-5762
T	Router Basics	5763-5764
T	Network Security	5765
T	IT Hardware Basics	5767-5768
A	Network Tech Support	5773-5774
Programming & Software Development		
I	Computer Essentials	5735
T	Computer Programming	5747-5748
T	Advanced Computer Programming	5705-5706
T	Web Page Design	6743
A	IB Computing SL	5811-5812
A	Game Design	5775-5776
A	Programming Tech Support	5707-5708

Visual Arts		
Graphic Design		
I	Computer Essentials	5735
I	Introduction to Drawing	5769
T	Principles of Illustration	5778
T	Photo Imaging	5715
T	Fundamentals of Graphic Design	5712
T	Graphic Design	5781-5782
T	Computer Graphics	5741-5742
A	Project Management for Graphic Design	5755-5756
Interior & Textile Design		
I	Career & Life Planning	7605
I	Introduction to Drawing	5769
I	Introduction to Family & Consumer Sciences	7675-7676
I	Introduction to Family & Consumers Sciences MS	7677-7678
T	Principles of Illustration	5778
T	Essentials of Interior & Textile Design	5752-5749
T	Interior & Textile Merchandising	5759-5799
A	Interior & Textile Design Studio	5789-5790
A	Interior Design Applications	5779
A	Career Connections for Interior & Textile Design	5791-5792
Web & Digital Communications		
I	Computer Essentials	5735
T	Web Page Design	6743
T	Computer Graphics	5741-5742
T	Animation	5793
T	Interactive Media	5700
T	Computer Programming	5747-5748
A	Media Technology Internship	5717-5718
A	Game Design	5775-5776
A	3D Modeling for Gaming	5721-5722

Business, Marketing & Management

Business Finance		
Finance		
I	Business Essentials	6720
T	Youth Entrepreneurs	6888-6889*
T	Accounting	6013-6014
T	Business Economics	6719
T	Financial Literacy	7610F
A	Banking & Finance	6049-6050
A	Investing	6521
Accounting		
I	Business Essentials	6720
T	Youth Entrepreneurs	6888-6889*
T	Accounting	6013-6014
T	Business Economics	6719
T	Financial Literacy	7610F
A	Advanced Accounting	6015-6016
A	College Accounting	6017-6018
Marketing		
Marketing Communications		
I	Business Essentials	6720
T	Marketing	6613-6614
T	Business Communications	6705
T	Business Management	6706
T	Business Economics	6719
T	Business Law	6170
T	Youth Entrepreneurs	6888-6889*
T	Entrepreneurship (<i>Metros only</i>)	6906
T	Sports & Entertainment Marketing	6801
A	Marketing Communications	6620
A	Marketing Technology	6619
Marketing Management		
I	Business Essentials	6720
T	Marketing	6613-6614
T	Youth Entrepreneurs	6888-6889*
T	Sports & Entertainment Marketing	6801

Marketing Cont.		
Marketing Management		
T	Accounting	6013-6014
T	Business Law	6170
T	Business Communications	6705
T	Business Management	6706
A	Marketing Management	6615-6616
Marketing Research		
I	Business Essentials	6720
T	Marketing	6613-6614
T	Youth Entrepreneurs	6888-6889*
T	Sports & Entertainment Marketing	6801
T	Accounting	6013-6014
T	Business Communications	6705
T	Business Management	6706
T	Business Law	6170
A	Marketing Research	6617-6618
Restaurant & Event Management		
Culinary Arts & Management		
I	Career & Life Planning	7605
I	Introduction to Family & Consumer Sciences	7675-7676
I	Business Essentials	6720
T	Culinary Essentials	6732
T	Baking & Pastry 1	6729
T	Baking & Pastry 2	6730
T	Culinary Arts 1	6727-6728
T	Culinary Arts 2	6731
T	Food Science	7991-7992
T	Nutrition & Wellness	7823
A	Career Connections for Culinary Arts	6721-6722
A	Culinary Applications	6725-6726

Health Science

Health Science		
I	Intro to Health Science	4069
I	BioMed H Biology	4048-4049
I	BioMed H Chemistry	4046-4047
I	Biology (<i>NEM Only</i>)	4251X-4252X
T	Health Science Technology 1	4060-4061
T	BioMed Anatomy & Physiology	4052-4053
T	Health Science Technology 2	4062-4063
T	Anatomy & Physiology	4821F-4822F
T	Special Health Science Topics	4051L
T	Healthcare Nutrition & Wellness	4054-4055
T	Medical Terminology	4056
T	EMT	7356-7357
T	Principles of Biomedical Sciences	7117-7118
T	Pharmacology	4077-4078
T	Human Body Systems	7119-7120
T	Medical Interventions	7123-7124
A	Health Science Technology 3	4064-4065
A	Forensic Science	4401F-02F
A	Honors Forensic Science	4403F-04F
A	Certified Nursing Assistant	4074L
A	Certified Medication Aide	4073L
A	Phlebotomy Technician	4075L
A	Biomedical Innovation	7125-7126
A	Home Health Aide	4076L
A	Health Careers Exploration	4066-4067

2015-16 Career and Technical Education Pathways

Human Resources & Services

Corrections, Security & Law Enforcement Services		
Law Enforcement		
I	Introduction to Law & Public Service	3481
T	Law Enforcement 1	7621
T	First Aid/CPR/EMR	7627
A	Law Enforcement 2	7622
A	Forensic Science	4401F-4402F
A	Honors Forensic Science	4403F-4404F
A	LPSS Internship	7626
Pre-Law		
I	Introduction to Law & Public Service	3481
T	Business Law	6170
T	Practical Law	6173F
T	Business Management	6706
T	Accounting	6013-6014
A	Foundations in Law	7631-7632
A	Youth Court	3517F-3518F
A	LPSS Intership	7626
Emergency & Fire Management Services		
I	Introduction to Law & Public Service	3481
T	Firefighter 1	7352-7353
T	Emergency Medical Technician	7356-7357
T	First Aid/CPR/EMR	7627
A	Firefighter 2	7354-7355

Early Childhood Development & Services		
I	Career & Life Planning	7605
I	Introduction to Human Services	7619
I	Introduction to Family & Consumer Sciences	7675-7676
T	World of Children	7900
T	Parenting & Child Development	7600
T	Family Studies	7820
T	Early Childhood Education Foundations	7611-7612
A	Early Childhood Education Lab	7613-7614
Family & Community Services		
I	Career & Life Planning	7605
I	Introduction to Human Services	7619
I	Introduction to Family & Consumer Sciences	7675-7676
T	Parenting & Child Development	7600
T	Family Studies	7820
T	Financial Literacy	7610F
T	Honors Financial Literacy	7630
T	Nutrition & Wellness	7823
A	Career Connections for Family & Community Services	7773-7774
Teaching/Training		
I	Career & Life Planning	7605
I	Introduction to Family & Consumer Sciences	7675-7676
T	Parenting & Child Development	7600
T	World of Children	7900
T	Teaching as a Career	7601-7602
T	Teaching Observation	7628-7629
A	Teaching Internship	7603-7604

Industrial, Manufacturing & Engineering Systems

Construction & Design		
I	Introduction to Industrial Technology	7470
T	Skilled Mechanical Crafts	7058
T	Cabinetmaking & Furniture Design 1	7511-7512
T	Residential Carpentry 1	7033-7034
A	Cabinetmaking & Furniture Design 2	7521-7522
A	Residential Carpentry 2	7035-7036
A	Sheet Metal & HVACR	7049-7050
A	Advanced Materials Technology	7039-7040
A	HVAC Technology	7210
A	Remodeling & Building Maintenance	7546
A	Plumbing Technology	7455
A	Pipefitting Technology	7504-7505
Engineering & Applied Mathematics (PLTW)		
I	Explorations in Technology 3 (8th Grade)	ET3015-ET3016, ET301Q
T	Principles of Engineering	7481-7482
T	Introduction to Engineering Design	7041-7042
T	Robotics	7069-7070
A	Digital Electronics	7031-7032
A	Computer Integrated Manufacturing	7556-7557
A	Civil Engineering & Architecture	7909-7910
A	Engineering Design & Development	7043-7044
A	Aerospace Engineering	7905-7906
A	Biotechnical Engineering	7907-7908

Manufacturing Production		
I	Introduction to Industrial Technology	7470
T	Drafting/CAD 1, 2	7045-7046
T	Manufacturing Processes	7458-7459
T	Production Welding Processes 1	7517-7518
T	Mass Production 1	7411-7412
T	Computer Aided Machining	7408-7409
T	Machine Tool Technology 1	7404-7405
A	Advanced Drafting/CAD 1, 2	7053-7054
A	Production Welding Processes 2	7519-7520
A	Mass Production 2	7421-7422
A	Machine Tool Technology 2	7406-7407
A	Research & Design for Manufacturing	7101-7102
Mobile Equipment Maintenance		
Auto Collision & Refinishing		
I	Introduction to Industrial Technology	7470
T	Auto Collision 1	7223-7224
T	Auto Refinishing 1	7227
A	Auto Collision 2	7225-7226
A	Auto Refinishing 2	7228
A	Custom Refinishing & Application 1	7230
A	Custom Refinishing & Application 2	7231

Mobile Equipment Maintenance		
Automotive Technician		
I	Introduction to Industrial Technology	7470
I	Introduction to Transportation	7241
I	Automotive Information	7229
T	General Service 1 - Automotive	7233-7234
T	Small Gas Engines - Automotive	7245-7246
T	Alternative Power 1	7219
T	Engine Mechanical Repair	7232
A	General Service 2 - Automotive	7237-7238
A	Research & Emerging Trends - Automotive	7242
A	General Service 3 - Automotive	7239-7240
A	Alternative Power 2	7220
Motorcycle Technician		
I	Introduction to Transportation	7241
T	General Service 1 - Motorcycle	7235-7236
T	Small Gas Engines - Motorcycle	7247-7248
A	Research & Emerging Trends - Motorcycle	7243-7244

Courses offered within a pathway varies at each school.

I = Introductory
T = Technical
A = Application

To be considered a **CTE Concentrator**, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses.

*Not part of the approved pathway, but recommended for the strand.