2026 - 2027 CTE Master Pathways

Pathways/Programs of Study		Programs of Study Course Sequences							
Cluster	**Career Pathway**	_	**Principles - Level I**	_	**CTE Concentrator A - Level I**	_	**CTE Concentrator B - Level I**	_	**Pathway Capstone - Level II**
Advanced Manufacturing	Industry 4.0 - Smart Manufacturing	7220	Principles of Industry 4.0 - Smart Manufacturing	4728	Robotics Design and Innovation	7100	Smart Manufacturing Systems	7222	Industry 4.0 - Smart Manufacturing Capstone
Advanced Manufacturing	Industrial Automation and Robotics	7108	Principles of Advanced Manufacturing	7103	Advanced Manufacturing Technology	7106	Mechatronics Systems	7224	Industrial Automation and Robotics Capstone
		7220	Principles of Industry 4.0 - Smart Manufacturing^	4728	Robotics Design and Innovation^				
Advanced Manufacturing	Industrial Maintenance Electrical	7108	Principles of Advanced Manufacturing	7103	Advanced Manufacturing Technology	7102	Industrial Electrical Fundamentals	7260	Industrial Electrical Capstone
		7220	Principles of Industry 4.0 - Smart Manufacturing^	4728	Robotics Design and Innovation^				
Advanced Manufacturing	Industrial Maintenance Mechanical	7108	Principles of Advanced Manufacturing	7103	Advanced Manufacturing Technology	7104	Industrial Maintenance Fundamentals	7261	Industrial Maintenance Capstone
		7220	Principles of Industry 4.0 - Smart Manufacturing^	4728	Robotics Design and Innovation^				
Advanced Manufacturing	Precision Machining	7109	Principles of Precision Machining	7105	Precision Machining Fundamentals	7107	Advanced Precision Machining	7219	Precision Machining Capstone
Advanced Manufacturing	Welding Technology	7110	Principles of Welding Technology	7111	Shielded Metal Arc Welding	7101	Gas Welding Processes	7226	Welding Technology Capstone
Advanced Manufacturing	Biotechnology	7340	Principles of Biotechnology	7341	Biotech Manufacturing	7343	Advanced Biotech Manufacturing	7344	Biotechnology Capstone
						7342	Biotech Regulatory Affairs		
Advanced Manufacturing	Electronics and Computer Technology	4802	Introduction to Engineering Design	7361	Electronic Fundamentals	5538	Digital Electronics	7362	Electronics and Computer Technology Capstone
								7098	Semiconductor Fabrication Capstone
Advanced Manufacturing	Engineering	4802	Introduction to Engineering Design	5644	Principles of Engineering	5538	Digital Electronics	5698	Engineering Design and Development
						5650	Civil Engineering and Architecture		
						5518	Aerospace Engineering		
						5534	Computer Integrated Manufacturing		
						4818	Environmental Sustainability		
Advanced Manufacturing	Design Technology	4802	Introduction to Engineering Design	7196	Mechanical and Architectural Design	7202	Manufacturing Principles and Design	7223	Mechanical Design Capstone
						7197	BIM Architecture	7225	Architectural Design Capstone
Agriculture	Ag Mechanical and Engineering	7117	Principles of Agriculture	5088	Agriculture Power, Structures, and Technology	7112	Agriculture Structures: Fabrication and Design	7228	Agriculture Mechanization and Technology Capstone
Agriculture	Agriscience - Plants or Animals	7117	Principles of Agriculture	5008	Animal Science - NLPS	5102	Food Science - NLPS	7230	Agriculture Biotechnology Capstone*
				5170	Plant and Soil Science - NLPS	5070	Advanced Life Science, Animals (L) - NLPS	7262	Agricultural Research Capstone*
						5074	Advanced Life Science, Plants and Soils (L) - NLPS		
						5072	Advanced Life Science: Foods (L) - NLPS		
Agriculture	Horticulture	7117	Principles of Agriculture	5132	Horticultural Science	7114	Greenhouse and Soilless Production	7232	Horticulture Capstone

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Cluster	**Career Pathway**		**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**
Agriculture	Landscaping	7117	Principles of Agriculture	5132	Horticultural Science	7115	Landscape and Turf Management	7234	Landscape Management Capstone
Agriculture	Precision Agriculture	7117	Principles of Agriculture	7116	Precision Agriculture	7113	Crop Management	7236	Precision Agriculture Capstone
								7238	Agribusiness Capstone*
Agriculture	Veterinary Science	7280	Principles of Veterinary Science	7281	Veterinary Science	5070	Advanced Life Science, Animals (L)	7282	Veterinary Science Capstone
Agriculture	Water Systems - Utilities	7381	Principles of Public Water Systems	7382	Water Systems Fundamentals	7383	Advanced Water Systems	7384	Water Systems Capstone
Arts, Entertainment, & Design	Digital Design	7140	Principles of Digital Design	7141	Digital Design Graphics	7138	Interactive Media Design	7246	Digital Design Capstone
						5550	Graphic Design and Layout - NLPS		
						7136	Professional Photography and Videography		
Arts, Entertainment, & Design	Fashion and Textiles	7301	Principles of Fashion and Textiles	7302	Textiles, Apparel, and Merchandising	7303	Advanced Textiles	7304	Fashion and Textiles Capstone
Arts, Entertainment, & Design	Interior Design	7132	Principles of Interior Design	7127	Interior Design Fundamentals	7128	Materials, Finishes and Design	7248	Interior Design Capstone
Arts, Entertainment, & Design	Radio and Television Broadcasting	7139	Principles of Broadcasting	7306	Audio and Video Production Essentials	7307	Mass Media Production	7308	Radio & TV Broadcasting Capstone
Business Management	Business Administration	4562	Principles of Business Management	7143	Management Fundamentals	4524	Accounting Fundamentals	7256	Business Administration Capstone
				5914	Marketing Fundamentals				
Business Management	Business Operations and Technology	7153	Principles of Business Operations and Technology	7144	Business Office Communications	7146	Digital Data Applications	7254	Business Operations and Technology Capstone
Construction	Construction Trades - Carpentry	7130	Principles of Construction Trades	7123	Construction Trades: General Carpentry	7122	Construction Trades: Framing and Finishing	7242	Construction Trades Capstone
						7390	Masonry Fundamentals	7391	Masonry Capstone
Construction	Construction Trades - Electrical	7130	Principles of Construction Trades	7124	Electrical Fundamentals	7119	Advanced Electrical	7263	Construction Trades Electrical Capstone
Construction	Building and Facilities Maintenance	7130	Principles of Construction Trades	7285	Building and Facilities Maintenance Fundamentals	7286	Advanced Building and Facilities Maintenance	7287	Building and Facilities Maintenance Capstone
Construction	Civil Construction	7130	Principles of Construction Trades	7121	Civil Construction Fundamentals	7118	Advanced Civil Construction	7240	Civil Construction Capstone
Construction	Heavy Equipment Operator	7130	Principles of Construction Trades	7290	Heavy Equipment Fundamentals	7291	Advanced Heavy Equipment Operations	7292	Heavy Equipment Capstone
Construction	Heating, Ventilation, and Air Conditioning (HVAC)	7131	Principles of HVAC	7125	HVAC Fundamentals	7126	HVAC Service	7244	HVAC Capstone
Construction	Plumbing and Pipefitting	7133	Principles of Plumbing and Pipefitting	7129	Plumbing and Pipefitting Fundamentals	7120	Advanced Plumbing and Pipefitting	7264	Plumbing and Pipefitting Capstone
Digital Technology	AI/Machine Learning (*NEW*)	7183	Principles of Computing	7488	Software and Cloud Foundations	7490	AI and Data Fundamentals	7494	AI/Machine Learning Capstone
Digital Technology	Computer Science	7183	Principles of Computing	7351	Topics in Computer Science	7352	Computer Science	7353	Computer Science Capstone
Digital Technology	Cybersecurity (Vincennes)	7183	Principles of Computing	7179	Cybersecurity Fundamentals	7178	Advanced Cybersecurity	7243	Cybersecurity Capstone
Digital Technology	Cybersecurity and Information Assurance (Ivy Tech)	7183	Principles of Computing	7180	Information Technology Fundamentals	7181	Networking and Cybersecurity Operations	7249	Cybersecurity Operations Capstone

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Pathways/Programs of Study		Programs of Study Course Sequences							
Cluster	**Career Pathway**		**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**
Digital Technology	Data Analytics (*NEW*)	7183	Principles of Computing	7488	Software and Cloud Foundations	7490	AI and Data Fundamentals	7492	Data Analytics Capstone
Digital Technology	Informatics	7183	Principles of Computing	7180	Information Technology Fundamentals**	7484	Data Analytics and Informatics Operations**	7485	Informatics Capstone
				7488	Software and Cloud Foundations^	7490	AI and Data Fundamentals^		
Digital Technology	Information Technology Operations	7183	Principles of Computing	7180	Information Technology Fundamentals	7181	Networking and Cybersecurity Operations	7245	IT Support Capstone
								7247	Cloud and Server Operations Capstone
Digital Technology	Networking	7183	Principles of Computing	7180	Information Technology Fundamentals	7182	Networking Fundamentals**	7251	Networking Capstone
						7181	Networking and Cybersecurity Operations		
Digital Technology	Software Development	7183	Principles of Computing	7185	Website and Database Development**	7184	Software Development**	7253	Software Development Capstone
				7488	Software and Cloud Foundations^	7490	AI and Data Fundamentals^		
Education	Education Professions	7161	Principles of Teaching	7157	Child and Adolescent Development	7162	Teaching and Learning	7267	Education Professions Capstone
Education	Early Childhood	7160	Principles of Early Childhood Education	7158	Early Childhood Education Curriculum	7159	Early Childhood Education Guidance	7259	Early Childhood Education Capstone
Energy & Natural Resources	Energy Technology	7203	Principles of Energy Technology	7200	Fundamentals of Electricity and Motors	7198	Electrical Power and Distribution	7268	Electrical Line Capstone
								7269	Industrial Wind Capstone
								7266	Natural Gas Capstone
								7365	Renewable Energy Alternatives
Energy & Natural Resources	Natural Resources	7117	Principles of Agriculture	5180	Natural Resources	7270	Forestry and Wildlife Management	7262	Agricultural Research Capstone*
						7271	Soil and Water Management		
						5229	Sustainable Energy Alternatives		
Financial Services	Accounting	4562	Principles of Business Management	4524	Accounting Fundamentals	4522	Advanced Accounting	7252	Accounting Capstone
Financial Services	Finance and Investment	4562	Principles of Business Management	7150	Personal Finance and Banking	5258	Finance and Investment	7265	Finance and Investment Capstone
				4524	Accounting Fundamentals				
Financial Services	Insurance	4562	Principles of Business Management	7149	Insurance Fundamentals	7151	Personal and Commercial Insurance	7201	Small Business Operations Capstone
Health & Human Services	Biomedical Sciences	5218	Principles of Biomedical Sciences	5216	Human Body Systems (L)	5217	Medical Interventions (L)	5219	Biomedical Innovations (L)
				5276	Anatomy and Physiology			7255	Healthcare Specialist Capstone
Health & Human Services	Dental Careers	7315	Principles of Dental Careers	7316	Dental Careers Fundamentals	7317	Advanced Dental Careers	7318	Dental Careers Capstone
Health & Human Services	Emergency Medical Services	7168	Principles of Healthcare	5274	Healthcare Fundamentals	7165	Emergency Medical Tech	7255	Healthcare Specialist Capstone

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Pathways/Programs of Study		Programs of Study Course Sequences							
Cluster	Career Pathway	Principles - Level I		CTE Concentrator A - Level I		CTE Concentrator B - Level I		Pathway Capstone - Level II	
Health & Human Services	Certified Clinical Medical Assistant	7168	Principles of Healthcare	5274	Healthcare Fundamentals	7164	Certified Clinical Medical Assistant (CCMA)	7255	Healthcare Specialist Capstone
Health & Human Services	Pre-Nursing/Healthcare Specialist: Certified Nursing Aide (CNA)	7168	Principles of Healthcare	5274	Healthcare Fundamentals	7166	Healthcare Specialist: CNA	7255	Healthcare Specialist Capstone
Health & Human Services	Central Service Technician	7168	Principles of Healthcare	5274	Healthcare Fundamentals	7163	Central Service Technician Fundamentals	7257	Central Service Technician Capstone
Health & Human Services	Pharmacy	7137	Principles of Pharmacy Tech	5274	Healthcare Fundamentals	7167	Pharmacy Tech	7310	Pharmacy Capstone
Health & Human Services	Exercise Science/Physical Therapy	7320	Principles of Exercise Science	7321	Kinesiology	7322	Human Performance	7323	Physical Therapy Capstone
								7324	Fitness Management Capstone
Health & Human Services	Cosmetology and Barbering	7330	Principles of Barbering and Cosmetology	7331	Barbering and Cosmetology Fundamentals	7333	Advanced Barbering	7334	Barbering and Cosmetology Capstone
						7332	Advanced Cosmetology		
Health & Human Services	Social and Community Services	7176	Principles of Human Services	7276	Fundamentals of Human Services	7278	Advanced Social and Community Services	7279	Social and Community Service Capstone
Hospitality, Events, & Tourism	Culinary Arts	7173	Principles of Culinary and Hospitality	7171	Nutrition	7169	Culinary Arts	7233	Culinary Capstone
								7235	Baking and Pastry Capstone
Hospitality, Events, & Tourism	Hospitality Management	7173	Principles of Culinary and Hospitality	7171	Nutrition	7172	Hospitality Management	7237	Hospitality Management Capstone
Hospitality, Events, & Tourism	Nutrition Science	7173	Principles of Culinary and Hospitality	7171	Nutrition	7170	Nutrition Planning and Therapy	7239	Nutrition Science Capstone
Marketing, Sales, & Entrepreneurship	Entrepreneurship	7154	Principles of Entrepreneurship	7147	Entrepreneurial Operations	7148	New Venture Development	7201	Small Business Operations Capstone
Marketing, Sales, & Entrepreneurship	Marketing and Sales	4562	Principles of Business Management	5914	Marketing Fundamentals	5918	Strategic Marketing	7201	Small Business Operations Capstone
						7145	Digital Marketing		
Public Service & Safety	Criminal Justice	7193	Principles of Criminal Justice	7191	Law Enforcement Fundamentals	7188	Corrections and Cultural Awareness	7231	Criminal Justice Capstone
Public Service & Safety	Fire and Rescue	7195	Principles of Fire and Rescue	7189	Fire Fighting Fundamentals	7186	Advanced Fire Fighting	7229	Fire and Rescue Capstone/EMT
Public Service & Safety	Paralegal	7194	Principles of Paralegal Studies	7192	Paralegal Fundamentals	7187	Advanced Paralegal Studies	7227	Paralegal Studies Capstone
Supply Chain & Transportation	Automotive Collision Repair	7215	Principles of Collision Repair	7204	Automotive Body Repair	7206	Plastic Body Repair and Painting Fundamentals	7380	Collision Repair Capstone
Supply Chain & Transportation	Automotive Services	7213	Principles of Automotive Services	7205	Brake Systems	7212	Steering and Suspensions	7375	Automotive Service Capstone
Supply Chain & Transportation	Aviation Management	7214	Principles of Aviation Management	7217	Private Pilot Theory	7207	Aviation Safety and Operations	7385	Aviation Management Capstone
Supply Chain & Transportation	Diesel Services	7216	Principles of Diesel Services	7210	Diesel Steering and Brakes	7211	Diesel Transmissions	7221	Diesel Services Capstone
								5622	Tractor/Trailer Operations
Supply Chain & Transportation	Commercial Driver	7386	Principles of Transportation and Logistics	7387	Commercial Driver Operations Fundamentals	7388	Advanced Commercial Driver Operations		
Supply Chain & Transportation	Aviation Maintenance	7372	Principles of Aviation Maintenance	7374	Aviation Maintenance Fundamentals	7376	Advanced Aviation Maintenance	7378	Aviation Maintenance Capstone

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Pathways/Programs of Study		Programs of Study Course Sequences							
Cluster	**Career Pathway**	**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
Supply Chain & Transportation	Supply Chain and Logistics	4562	Principles of Business Management	7155	Logistics Management	7142	Supply Chain Management	7258	Supply Chain Management Capstone

		Special Notes for NLPS Courses or Programs
	Architecture, Engineering, and Construction	*Contact CTE at the Indiana Commission for Higher Education if interested in offering this program of study*
Supply Chain & Transportation	Recreation and Mobile Equipment	*Contact CTE at the Indiana Commission for Higher Education if interested in offering this program of study*
		Entrepreneurship and New Ventures Capstone (5966) may be used with any pathway **EXCEPT** *the Entrepreneurship Pathway*
		Advanced Digital Skills Capstone (7396) may be used with any pathway **EXCEPT** *the Information Technology and Computer Science Pathway*
		Agribusiness Capstone (7238) may be used with any Agriculture pathway, but is listed above with the pathway where its use is most applicable
		Agriculture Research Capstone (7262) may be used with any Agriculture pathway, but is listed above with pathways where its use is most applicable
		Agriculture Biotechnology Capstone (7230) may be used with any Agriculture pathway, but is listed above with the pathway where its use is most applicable
		Agriculture Mechanization and Technology Capstone (7228) may be used as a capstone for the Precision Agriculture pathway.
		^ Indicates courses must be taught as a pair to be used within this pathway.
		**Courses will no longer be available after the 2027-2028 school year. Students should transition to the other courses indicated in the pathway.