

Next Level Career Pathways/Programs of Study		Perkins V - Next Level 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
								7250	Semiconductor and EV Battery 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
Agriculture, Food and Natural Resources	Ag Mechanical and Engineering (formerly Ag Power, Structure & Technology)	7117	Principles of Agriculture	5088	Agriculture Power, Structures and Technology	7112	Agriculture Structures Fabrication and Design	7228	Agriculture Mechanization and Technology Capstone
Agriculture, Food and Natural Resources	Agriscience - Plants or Animals (combined Animal, Plant, and Food Products)	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 - NLPS		
Agriculture, Food and Natural Resources	Horticulture	7117	Principles of Agriculture	5132	Horticultural Science	7114	Greenhouse and Soilless Production	7232	Horticulture Capstone
Agriculture, Food and Natural Resources	Landscaping	7117	Principles of Agriculture	5132	Horticultural Science	7115	Landscape and Turf Management	7234	Landscape Management Capstone
Agriculture, Food and Natural Resources	Precision Agriculture (New)	7117	Principles of Agriculture	7116	Precision Agriculture	7113	Crop Management	7236	Precision Agriculture Capstone
								7238	Agribusiness Capstone*
Agriculture, Food and 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		
Agriculture, Food and Natural Resources	Veterinary Science	7280	Principles of Veterinary Science	7281	Veterinary Science	5070	Advanced Life Science, Animals (L)	7282	Veterinary Science Capstone
Architecture and 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
Architecture and Construction	Construction Trades - Electrical	7130	Principles of Construction Trades	7124	Electrical Fundamentals	7119	Advanced Electrical	7263	Construction Trades Electrical Capstone

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Architecture and 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
Architecture and Construction	Civil Construction (New)	7130	Principles of Construction Trades	7121	Civil Construction Fundamentals	7118	Advanced Civil Construction	7240	Civil Construction Capstone
Architecture and Construction	Heavy Equipment Operator	7130	Principles of Construction Trades	7290	Heavy Equipment Fundamentals	7291	Advanced Heavy Equipment Operations	7292	Heavy Equipment Capstone
Architecture and Construction	Heating, Ventilating and Air Conditioning Technology (HVAC)	7131	Principles of HVAC	7125	HVAC Fundamentals	7126	HVAC Service	7244	HVAC Capstone
Architecture and Construction	Plumbing and Pipefitting (New)	7133	Principles of Plumbing and Pipefitting	7129	Plumbing and Pipefitting Fundamentals	7120	Advanced Plumbing and Pipefitting	7264	Plumbing and Pipefitting Capstone
STEM	Architecture, Engineering and Construction (formerly Architectural Drafting and Design)*	7295	Principles of Architecture, Engineering and Construction	7389	Advanced Architectural Drafting and Design	7296	Surveying	7297	Architecture, Engineering and Construction Capstone
				7123	Construction Trades: General Carpentry				
Arts, AV Tech and Comm	Digital Design	7140	Principles of Digital Design	7141	Digital Design Graphics	7138	Interactive Media Design	7246	Digital Design Capstone
						5550	Graphic Design and Layout - NLP5		
						7136	Professional Photography and Videography		
Arts, AV Tech and Comm	Fashion and Textiles	7301	Principles of Fashion and Textiles	7302	Textiles, Apparel, and Merchandising	7303	Advanced Textiles	7304	Fashion and Textiles Capstone
Arts, AV Tech and Comm	Interior Design	7132	Principles of Interior Design	7127	Interior Design Fundamentals	7128	Materials, Finishes and Design	7248	Interior Design Capstone
Arts, AV Tech and Comm	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 and Administration	Business Administration (formerly E&M Bus Mgmt Focus)	4562	Principles of Business Management	7143	Management Fundamentals	4524	Accounting Fundamentals	7256	Business Administration Capstone
				5914	Marketing Fundamentals				
Business Management and Administration	Business Operations and Technology (formerly Admin and Office Mgmt)	7153	Principles of Business Operations and Technology	7144	Business Office Communications	7146	Digital Data Applications	7254	Business Operations and Technology Capstone
Business Management and Administration	Supply Chain and Logistics	4562	Principles of Business Management	7155	Logistics Management	7142	Supply Chain Management	7258	Supply Chain Management Capstone
								5622	Tractor/Trailer Operations
Finance	Accounting	4562	Principles of Business Management	4524	Accounting Fundamentals	4522	Advanced Accounting	7252	Accounting Capstone
Finance	Banking and Investment	4562	Principles of Business Management	7150	Personal Finance and Banking	5258	Finance and Investment	7265	Finance and Investment Capstone
				4524	Accounting Fundamentals				
Finance	Insurance (New)	4562	Principles of Business Management	7149	Insurance Fundamentals	7151	Personal and Commercial Insurance	7201	Business Management Capstone
Marketing	Entrepreneurship	7154	Principles of Entrepreneurship	7148	New Venture Development	7147	Small Business Operations	7201	Business Management Capstone
Marketing	Marketing and Sales	4562	Principles of Business Management	5914	Marketing Fundamentals	5918	Strategic Marketing	7201	Business Management Capstone
						7145	Digital Marketing		
Education and Training	Education Careers	7161	Principles of Teaching	7157	Child and Adolescent Development	7162	Teaching and Learning	7267	Education Professions Capstone

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Education and Training	Early Childhood	7160	Principles of Early Childhood Education	7158	Early Childhood Education Curriculum	7159	Early Childhood Education Guidance	7259	Early Childhood Education Capstone
Health Sciences	Biomedical Sciences and Technology	5218	Principles of Biomedical Sciences	5216	Human Body Systems	5217	Medical Interventions	5219	Biomedical Innovations
				5276	Anatomy and Physiology			7255	Healthcare Specialist Capstone
Health Sciences	Dental Careers	7315	Principles of Dental Careers	7316	Dental Careers Fundamentals	7317	Advanced Dental Careers	7318	Dental Careers Capstone
Health Sciences	Emergency Medical Services	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7165	Emergency Medical Tech	7255	Healthcare Specialist Capstone
Health Sciences	Medical Assistant (New)	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7164	Certified Clinical Medical Assistant (CCMA)	7255	Healthcare Specialist Capstone
Health Sciences	Pre-Nursing/Healthcare Specialist (CNA)	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7166	Healthcare Specialist: CNA	7255	Healthcare Specialist Capstone
Health Sciences	Central Service Tech / Surgical Technician	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	0820 7163	Central Service Technician Fundamentals	7257	Central Service Technician Capstone
Health Sciences	Pharmacy	7137	Principles of Pharmacy Tech	5274	Medical Terminology - NLPS	7167	Pharmacy Tech	7310	Pharmacy Capstone
Health Sciences	Exercise Science	7320	Principles of Exercise Science	7321	Kinesiology	7322	Human Performance	7323	Physical Therapy Capstone
								7324	Fitness Management Capstone
Hospitality and Tourism	Culinary Arts	7173	Principles of Culinary and Hospitality	7171	Nutrition	7169	Culinary Arts	7233	Culinary Capstone
								7235	Baking and Pastry Capstone
Hospitality and Tourism	Hospitality Management	7173	Principles of Culinary and Hospitality	7171	Nutrition	7172	Hospitality Management	7237	Hospitality Management Capstone
Hospitality and Tourism	Nutrition Science (formerly Dietetics)	7173	Principles of Culinary and Hospitality	7171	Nutrition	7170	Nutrition Planning and Therapy	7239	Nutrition Science Capstone
Human Services	Barbering	7330	Principles of Barbering and Cosmetology	7331	Barbering and Cosmetology Fundamentals	7333	Advanced Barbering	7334	Barbering and Cosmetology Capstone
Human Services	Cosmetology	7330	Principles of Barbering and Cosmetology	7331	Barbering and Cosmetology Fundamentals	7332	Advanced Cosmetology	7334	Barbering and Cosmetology Capstone
Human Services	Human and Social Services	7176	Principles of Human Services	7174	Understanding Diversity	7177	Relationships and Emotions	7241	Human Services Capstone
Human Services	Social and Community Services (New)	7176	Principles of Human Services	7276	Fundamentals of Human Services	7278	Community Health Worker		
Information Tech	Cybersecurity	7183	Principles of Computing	7179	Cybersecurity Fundamentals	7178	Advanced Cybersecurity	7243	Cybersecurity Capstone
Information Tech	Information Technology Operations	7183	Principles of Computing	7180	Information Technology Fundamentals	7181	Networking and Cybersecurity Operations	7249	IT Operations: Cybersecurity Operations Capstone
								7245	IT Operations: IT Support Capstone
								7247	IT Operations: Cloud and Server Operations Capstone
Information Tech	Networking	7183	Principles of Computing	7180	Information Technology Fundamentals	7182	Networking Fundamentals	7251	Networking Capstone
Information Tech	Software Development	7183	Principles of Computing	7185	Website and Database Development	7184	Software Development	7253	Software Development Capstone
Information Tech	Computer Science	7183	Principles of Computing	7351	Topics in Computer Science	7352	Computer Science	7353	Computer Science Capstone

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Law, Public Safety, Corrections, and Security	Criminal Justice	7193	Principles of Criminal Justice	7191	Law Enforcement Fundamentals	7188	Corrections and Cultural Awareness	7231	Criminal Justice Capstone
Law, Public Safety, Corrections, and Security	Fire and Rescue	7195	Principles of Fire and Rescue	7189	Fire Fighting Fundamentals	7186	Advanced Fire Fighting	7229	Fire and Rescue Capstone/EMT
Law, Public Safety, Corrections, and Security	Paralegal	7194	Principles of Paralegal Studies	7192	Paralegal Fundamentals	7187	Advanced Paralegal Studies	7227	Paralegal Studies Capstone
STEM	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
STEM	Electronics and Computer Technology	4802	Introduction to Engineering Design	7361	Electronic Fundamentals	5538	Digital Electronics	7362	Electronics and Computer Technology Capstone
								7250	Semiconductor and EV Battery Manufacturing Capstone
STEM	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
STEM	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		
STEM	Biotechnology	7340	Principles of Biotechnology	7341	Biotech Manufacturing	7343	Advanced Biotech Manufacturing	7344	Biotechnology Capstone
						7342	Biotech Regulatory Affairs		
STEM	Utilities - Water Systems	7381	Principles of Public Water Systems	7382	Water Systems Fundamentals	7383	Advanced Water Systems	7384	Water Systems Capstone
Transportation, Distribution, and Logistics	Automotive Collision Repair	7215	Principles of Collision Repair	7204	Automotive Body Repair	7206	Plastic Body Repair and Painting Fundamentals	7380	Collision Repair Capstone
Transportation, Distribution, and Logistics	Automotive Services	7213	Principles of Automotive Services	7205	Brake Systems	7212	Steering and Suspensions	7375	Automotive Service Capstone
Transportation, Distribution, and Logistics	Aviation Management (formerly Aviation Flight and Operations)	7214	Principles of Aviation Management	7217	Private Pilot Theory	7207	Aviation Safety and Operations	7385	Aviation Management Capstone
Transportation, Distribution, and Logistics	Diesel Services	7216	Principles of Diesel Services	7210	Diesel Steering and Brakes	7211	Diesel Transmissions	7221	Diesel Services Capstone
								5622	Tractor/Trailer Operations
Transportation, Distribution, and Logistics	Commercial Driver	7386	Principles of Transportation and Logistics	7387	Commercial Driver Operations Fundamentals	7388	Advanced Commercial Driver Operations		
Transportation, Distribution, and Logistics	Aviation Maintenance	7372	Principles of Aviation Maintenance	7374	Aviation Maintenance Fundamentals	7376	Advanced Aviation Maintenance	7378	Aviation Maintenance Capstone

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Special Notes for NLPS Courses or Programs						
STEM	Architecture, Engineering and Construction (formerly Architectural Drafting and Design)*	<i>Contact CTE at the Indiana Commission for Higher Education if interested in offering this program of study</i>				
Transportation, Distribution, and Logistics	Recreation and Mobile Equipment	<i>Contact CTE at the Indiana Commission for Higher Education if interested in offering this program of study</i>				
		<i>Entrepreneurship and New Ventures Capstone may be used with any pathway EXCEPT the Entrepreneurship pathway</i>			5966	Entrepreneurship and New Ventures Capstone
		<i>*Agribusiness Capstone (7238) may be used with any Agriculture pathway, but is listed above with the pathway where its use is most applicable</i>				
		<i>*Agriculture Research Capstone (7262) may be used with any Agriculture pathway, but is listed above with pathways where its use is most applicable</i>				
		<i>*Agriculture Biotechnology Capstone (7230) may be used with any Agriculture pathway, but is listed above with the pathway where its use is most applicable</i>				