	Advanced Career and Technical Education Course List				
Service ID	Course Title	Credit	Career Cluster		
12701300	Career Preparation I	2	Career Development		
12701305	Career Preparation I/Extended Career Preparation	3	Career Development		
	Career Preparation II	2	Career Development		
12701405	Career Preparation II/Extended Career Preparation	3	Career Development		
12701500	Project-Based Research (First Time Taken)	1	Career Development		
	Project-Based Research (Second Time Taken)	1	Career Development		
12701520	Project-Based Research (Third Time Taken)	1	Career Development		
13000900	Agribusiness Management and Marketing	1	Agriculture, Food and Natural Resources		
13000910	Agribusiness Management and Marketing/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
N1300266	Agricultural Leadership, Research, and Communications	1	Agriculture, Food and Natural Resources		
13002500	Practicum in Agriculture, Food, and Natural Resources (First Time Taken)	2	Agriculture, Food and Natural Resources		
13002505	Practicum in Agriculture, Food, and Natural Resources/Extended Practicum in Agriculture, Food, and Natural Resources (First Time Taken)	3	Agriculture, Food and Natural Resources		
	Practicum in Agriculture, Food, and Natural Resources (Second Time Taken)	2	Agriculture, Food and Natural Resources		
13002515	Practicum in Agriculture, Food, and Natural Resources/Extended Practicum in Agriculture, Food, and Natural Resources (Second Time Taken)	3	Agriculture, Food and Natural Resources		
-	Livestock Production	1	Agriculture, Food and Natural Resources		
	Livestock Production/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Advanced Animal Science	1	Agriculture, Food and Natural Resources		
-	Scientific Research and Design	1	Agriculture, Food and Natural Resources		
	Veterinary Medical Applications	1	Agriculture, Food and Natural Resources		
	Veterinary Medical Applications/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Agricultural Power Systems	2	Agriculture, Food and Natural Resources		
	Agricultural Power Systems/Agricultural Laboratory and Field Experience	3	Agriculture, Food and Natural Resources		
	Agricultural Structures Design and Fabrication	1	Agriculture, Food and Natural Resources		
-	Agricultural Structures Design and Fabrication/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Agricultural Equipment Design and Fabrication	1	Agriculture, Food and Natural Resources		
	Agricultural Equipment Design and Fabrication/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
-	Energy and Natural Resources Technology	1	Agriculture, Food and Natural Resources		
	Energy and Natural Resource Technology/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Range Ecology and Management	1	Agriculture, Food and Natural Resources		
	Range Ecology and Management/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Advanced Energy and Natural Resource Technology	1 2	Agriculture, Food and Natural Resources Agriculture, Food and Natural Resources		
	Advanced Energy and Natural Resource Technology/Agricultural Laboratory and Field Experience Food Processing	1	, , , , , , , , , , , , , , , , , , ,		
-			Agriculture, Food and Natural Resources		
	Food Processing/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
	Floral Design Floral Design/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
-			Agriculture, Food and Natural Resources		
	Horticultural Science	1	Agriculture, Food and Natural Resources		
	Horticultural Science/Agricultural Laboratory and Field Experience	2	Agriculture, Food and Natural Resources		
N1300265		1	Agriculture, Food and Natural Resources		
	Advanced Floral Design	1	Agriculture, Food and Natural Resources		
	Advanced Plant and Soil Science	1	Agriculture, Food and Natural Resources		
	Architectural Design II	2	Architecture and Construction		
	Civil Engineering and Architecture (PLTW)	1	Architecture and Construction		
	Interior Design II	2	Architecture and Construction		
	Practicum in Architectural Design (First Time Taken)	2	Architecture and Construction		
	Practicum in Architectural Design/Extended Practicum in Architectural Design (First Time Taken)	3	Architecture and Construction		
	Practicum in Architectural Design (Second Time Taken)	2	Architecture and Construction		
	Practicum in Architectural Design/Extended Practicum in Architectural Design (Second Time Taken)	3	Architecture and Construction		
	Construction Technology II	2	Architecture and Construction		
	Mill and Cabinetmaking Technology	2	Architecture and Construction		
	Practicum in Construction Technology (First Time Taken)	2	Architecture and Construction		
13005255	Practicum in Construction Technology/Extended Practicum in Construction Technology (First Time Taken)	3	Architecture and Construction		

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	Practicum in Construction Technology (Second Time Taken)	2	Architecture and Construction
13005265	Practicum in Construction Technology/Extended Practicum in Construction Technology (Second Time Taken)	3	Architecture and Construction
	uilding Maintenance Technology II	2	Architecture and Construction
13005000	Construction Management II	2	Architecture and Construction
13006200	Practicum in Construction Management (First Time Taken)	2	Architecture and Construction
13006205	Practicum in Construction Management/Extended Practicum in Construction Management (First Time Taken)	3	Architecture and Construction
13006210	Practicum in Construction Management (Second Time Taken)	2	Architecture and Construction
13006215	Practicum in Construction Management/Extended Practicum in Construction Management (Second Time Taken)	3	Architecture and Construction
	Electrical Technology II	2	Architecture and Construction
13005900	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	2	Architecture and Construction
13006400	Masonry Technology II	2	Architecture and Construction
13006450	Practicum in Masonry Technology (First Time Taken)	2	Architecture and Construction
13006455	Practicum in Masonry Technology/Extended Practicum in Masonry Technology (First Time Taken)	3	Architecture and Construction
13006460	Practicum in Masonry (Second Time Taken)	2	Architecture and Construction
13006465	Practicum in Masonry/Extended Practicum in Masonry (Second Time Taken)	3	Architecture and Construction
N1300426	Pipefitting Technology II	1	Architecture and Construction
	Plumbing Technology II	2	Architecture and Construction
	Digital Arts and Animation	1	Arts, Audio Visual Technology and Communication
	3-D Modeling and Animation	1	Arts, Audio Visual Technology and Communication
	Fashion Design II	1	Arts, Audio Visual Technology and Communication
13009410	Fashion Design II/Fashion Design II Lab	2	Arts, Audio Visual Technology and Communication
N1300995	Advanced Video Game Programming	1	Arts, Audio Visual Technology and Communication
	Animation II	1	Arts, Audio Visual Technology and Communication
13008410	Animation II/Animation II Lab	2	Arts, Audio Visual Technology and Communication
13009200	Commercial Photography II	1	Arts, Audio Visual Technology and Communication
13009210	Commercial Photography II/Commercial Photography II Lab	2	Arts, Audio Visual Technology and Communication
13008900	Graphic Design and Illustration II	1	Arts, Audio Visual Technology and Communication
13008910	Graphic Design and Illustration II/Graphic Design and Illustration II Lab	2	Arts, Audio Visual Technology and Communication
13009010	Practicum in Graphic Design and Illustration (Second Time Taken)	2	Arts, Audio Visual Technology and Communication
13009015	Practicum in Graphic Design and Illustration/Extended Practicum in Graphic Design and Illustration (Second Time Taken)	3	Arts, Audio Visual Technology and Communication
13008460	Practicum in Animation (Second Time Taken)	2	Arts, Audio Visual Technology and Communication
13008465	Practicum in Animation/Extended Practicum in Animation (Second Time Taken)	3	Arts, Audio Visual Technology and Communication
13009260	Practicum in Commercial Photography (Second Time Taken)	2	Arts, Audio Visual Technology and Communication
13009265	Practicum in Commercial Photography/Extended Practicum in Commercial Photography (Second Time Taken)	3	Arts, Audio Visual Technology and Communication
13008450	Practicum in Animation (First Time Taken)	2	Arts, Audio Visual Technology and Communication
13008455	Practicum in Animation/Extended Practicum in Animation (First Time Taken)	3	Arts, Audio Visual Technology and Communication
13009250	Practicum in Commercial Photography (First Time Taken)	2	Arts, Audio Visual Technology and Communication
13009255	Practicum in Commercial Photography/Extended Practicum in Commercial Photography (First Time Taken)	3	Arts, Audio Visual Technology and Communication
13009000	Practicum in Graphic Design and Illustration (First Time Taken)	2	Arts, Audio Visual Technology and Communication
13009005	Practicum in Graphic Design and Illustration/Extended Practicum in Graphic Design and Illustration (First Time Taken)	3	Arts, Audio Visual Technology and Communication
13008600	Audio/Video Production II	1	Arts, Audio Visual Technology and Communication
13008610	Audio/Video Production II/Audio/Video Production II Lab	2	Arts, Audio Visual Technology and Communication
13009960	Digital Audio Technology II	1	Arts, Audio Visual Technology and Communication
13008700	Practicum in Audio/Video Production (First Time Taken)	2	Arts, Audio Visual Technology and Communication
13008705	Practicum in Audio/Video Production/Extended Practicum in Audio/Video Production (First Time Taken)	3	Arts, Audio Visual Technology and Communication
13008710	Practicum in Audio/Video Production (Second Time Taken)	2	Arts, Audio Visual Technology and Communication
13008715	Practicum in Audio/Video Production/Extended Practicum in Audio/Video Production (Second Time Taken)	3	Arts, Audio Visual Technology and Communication
	Printing and Imaging II	1	Arts, Audio Visual Technology and Communication
	Printing and Imaging II with Lab	2	Arts, Audio Visual Technology and Communication
-	Practicum in Printing and Imaging Technology (First Time Taken)	2	Arts, Audio Visual Technology and Communication
	Practicum in Printing and Imaging Technology/Extended Practicum in Printing and Imaging Technology (First Time Taken)	3	Arts, Audio Visual Technology and Communication
	Accounting II	1	Business, Marketing and Finance
13016800	Financial Analysis	1	Business, Marketing and Finance
	Insurance Operations		Business, Marketing and Finance
	Practicum in Business Management (First Time Taken)	2	Business, Marketing and Finance
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	Practicum in Business Management/Extended Practicum in Business Management (First Time Taken)	3	Business, Marketing and Finance
	Securities and Investments	1	Business, Marketing and Finance
	Practicum in Business Management (Second Time Taken)	2	Business, Marketing and Finance
	Practicum in Business Management/Extended Practicum in Business Management (Second Time Taken)	3	Business, Marketing and Finance
13012100	Business Management	1	Business, Marketing and Finance
13011800	Global Business	0.5	Business, Marketing and Finance
13011900	Human Resources Management	0.5	Business, Marketing and Finance
13016900	Statistics and Business Decision Making	1	Business, Marketing and Finance
03580390	Mobile Application Development	.5-1	Business, Marketing and Finance
13034800	Practicum in Marketing (First Time Taken)	2	Business, Marketing and Finance
13034805	Practicum in Marketing/Extended Practicum in Marketing (First Time Taken)	3	Business, Marketing and Finance
13034810	Practicum in Marketing (Second Time Taken)	2	Business, Marketing and Finance
13034815	Practicum in Marketing/Extended Practicum in Marketing (Second Time Taken)	3	Business, Marketing and Finance
13034200	Advertising	0.5	Business, Marketing and Finance
N1303420	Retail Management	1	Business, Marketing and Finance
13034650	Social Media Marketing	0.5	Business, Marketing and Finance
N1303422	Sports and Entertainment Marketing II	0.5	Business, Marketing and Finance
N1301120	Fundamentals of Real Estate	2	Business, Marketing and Finance
13034700	Advanced Marketing	2	Business, Marketing and Finance
13024800	Child Guidance	2	Education and Training
13014400	Instructional Practices	2	Education and Training
13014500	Practicum in Education and Training (First Time Taken)	2	Education and Training
13014505		3	5
13014505	Practicum in Education and Training/Extended Practicum in Education and Training (First Time Taken) Practicum in Education and Training (Second Time Taken)	2	Education and Training Education and Training
13014510		3	
-	Practicum in Education and Training/Extended Practicum in Education and Training (Second Time Taken)	-	Education and Training
N1303681	Occupational Safety & Environmental Technology II	1	Energy
	Oil and Gas Production III	1	Energy
12701410	Applied Mathematics for Technical Professionals	1	Energy
N1300257	Oil and Gas Production IV	1	Energy
N1300264	Petrochemical Safety, Health, and Environment	1	Energy
	Anatomy and Physiology	1	Health Science
	Health Informatics	1	Health Science
	Mathematics for Medical Professionals	1	Health Science
	World Health Research	1	Health Science
	Health Science Theory	1	Health Science
	Health Science Theory/Health Science Clinical	2	Health Science
13020700	Medical Microbiology	1	Health Science
	Pathophysiology	1	Health Science
13020500	Practicum in Health Science (First Time Taken)	2	Health Science
13020505	Practicum in Health Science/Extended Practicum in Health Science (First Time Taken)	3	Health Science
13020510	Practicum in Health Science (Second Time Taken)	2	Health Science
13020515	Practicum in Health Science/Extended Practicum in Health Science (Second Time Taken)	3	Health Science
13020950	Pharmacology	1	Health Science
N1302099	Speech and Communication Disorders	1	Health Science
13022650	Advanced Culinary Arts	2	Hospitality and Tourism
13023000	Food Science	1	Hospitality and Tourism
13022700	Practicum in Culinary Arts (First Time Taken)	2	Hospitality and Tourism
13022705	Practicum in Culinary Arts/Extended Practicum in Culinary Arts (First Time Taken)	3	Hospitality and Tourism
13022710	Practicum in Culinary Arts (Second Time Taken)	2	Hospitality and Tourism
-	Practicum in Culinary Arts/Extended Practicum in Culinary Arts (Second Time Taken)	3	Hospitality and Tourism
	Hospitality Services	2	Hospitality and Tourism
13022900	Practicum in Hospitality Services (First Time Taken)	2	Hospitality and Tourism
	Practicum in Hospitality Services (Extended Practicum in Hospitality Services (First Time Taken)	3	Hospitality and Tourism
13022910	Practicum in Hospitality Services (Second Time Taken)	2	Hospitality and Tourism
	Practicum in Hospitality Services (Second Hine Face)		Hospitality and Tourism
13022313		5	nospitality and rounsin

12024600	Counseling and Mental Health	1	Human Services
	Family and Community Services	1	Human Services
	Practicum in Human Services (First Time Taken)	2	Human Services
	Practicum in Human Services (First Time Taken) Practicum in Human Services (First Time Taken)	3	Human Services
	Practicum in Human Services (Second Time Taken)		Human Services
	Practicum in Human Services (Second Time Taken) Practicum in Human Serviced (Second Time Taken)	3	Human Services
	Cosmetology II	2	Human Services
	Cosmetology II /Cosmetology II Lab	3	Human Services
	Barbering II	3	Human Services
	Computer Technician Practicum (First Time Taken)	2	Information Technology
	Computer Technician Practicum (First Time Taken) Computer Technician Practicum/Extended Computer Technician Practicum (First Time Taken)	3	Information Technology
	Spatial Technology and Remote Sensing	1	Information Technology
	Computer Technician Practicum (Second Time Taken)	2	Information Technology
	Computer Technician Practicum (Second Time Taken)	3	Information Technology
	Practicum in Information Technology (First Time Taken)	2	Information Technology
	Practicum in Information Technology/Extended Practicum in Information Technology (First Time Taken)	3	Information Technology
		2	
	Practicum in Information Technology (Second Time Taken) Practicum in Information Technology/Extended Practicum in Information Technology (Second Time Taken)	3	Information Technology
N13028015		3	Information Technology
	Internetworking Technologies II (Cisco)	1	Information Technology
	Networking		Information Technology
	Networking/Networking Lab	2	Information Technology
	Web Design	1	Information Technology
	Web Game Development		Information Technology
	Emergency Medical TechnicianBasic	2	Law and Public Service
	Firefighter I	2	Law and Public Service
	National Security	1	Law and Public Service
	Firefighter II	3	Law and Public Service
	Practicum in Law, Public Safety, Corrections, and Security (First Time Taken)	2	Law and Public Service
	Practicum in Law, Public Safety, Corrections, and Security/Extended Practicum in Law, Public Safety, Corrections, and Security (First Time Taken)	3	Law and Public Service
	Practicum in Law, Public Service, Corrections, and Security (Second Time Taken)	2	Law and Public Service
	Practicum in Law, Public Service, Corrections, and Security/Extended Practicum in Law, Public Service, Corrections, and Security (Second Time Taken)	3	Law and Public Service
	Planning and Governance	1	Law and Public Service
	Political Science II	1	Law and Public Service
	Dimensions of Diplomacy	1	Law and Public Service
	Practicum in Local, State, and Federal Government (First Time Taken)	2	Law and Public Service
	Practicum in Local, State, and Federal Government/Extended Practicum in Local, State, and Federal Government (First Time Taken)	3	Law and Public Service
	Public Management and Administration	1	Law and Public Service
	Revenue, Taxation, and Regulation	1	Law and Public Service
	Practicum in Local, State, and Federal Government (Second Time Taken)	2	Law and Public Service
	Practicum in Local, State, and Federal Government/Extended Practicum in Local, State, and Federal Government (Second Time Taken)	3	Law and Public Service
	Correctional Services	1	Law and Public Service
	Forensic Psychology	1	Law and Public Service
	Law Enforcement II	1	Law and Public Service
	Forensic Science	1	Law and Public Service
	Legal Research and Writing	1	Law and Public Service
	Robotics II	1	Manufacturing
	Manufacturing Engineering Technology II	1	Manufacturing
	Practicum in Manufacturing (First Time Taken)	2	Manufacturing
	Practicum in Manufacturing/Extended Practicum in Manufacturing (First Time Taken)	3	Manufacturing
	Practicum in Manufacturing (Second Time Taken)	2	Manufacturing
	Practicum in Manufacturing/Extended Practicum in Manufacturing (Second Time Taken)	3	Manufacturing
	Diversified Manufacturing II	1	Manufacturing
-	Metal Fabrication and Machining II	2	Manufacturing
	Occupational Safety & Environmental Technology III	2	Manufacturing
13032500	Precision Metal Manufacturing I	2	Manufacturing

N1303748	Computer Integrated Manufacturing (PLTW)	1	Manufacturing
13032600	Precision Metal Manufacturing II	2	Manufacturing
	Precision Metal Manufacturing II/Precision Metal Manufacturing II Lab	3	Manufacturing
13032400		2	Manufacturing
-	Welding II/Welding II Lab	3	Manufacturing
-	Biotechnology II	1	Science, Technology, Engineering and Math
N1302094	Medical Interventions (PLTW)	1	Science, Technology, Engineering and Math
N1302095	Biomedical Innovation (PLTW)	1	Science, Technology, Engineering and Math
13037400	Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken)	2	Science, Technology, Engineering and Math
13037405	Practicum in Science, Technology, Engineering, and Mathematics/Extended Practicum in Science, Technology, Engineering, and Mathematics (First Time Ta	3	Science, Technology, Engineering and Math
13037410	Practicum in Science, Technology, Engineering, and Mathematics (Second Time Taken)	2	Science, Technology, Engineering and Math
13037415	Practicum in Science, Technology, Engineering, and Mathematics/Extended Practicum in Science, Technology, Engineering, and Mathematics (Second Time	3	Science, Technology, Engineering and Math
N1302804	Internetworking Technologies II (Cisco)	1	Science, Technology, Engineering and Math
03580360	Digital Forensics	.5-1	Science, Technology, Engineering and Math
A3580110	AP Computer Science A - Math Credit	1	Science, Technology, Engineering and Math
A3580120	AP Computer Science A - LOTE Credit	1	Science, Technology, Engineering and Math
N1303772	Engineering Applications of Computer Science Principles	1	Science, Technology, Engineering and Math
03580855	Cybersecurity Capstone	1	Science, Technology, Engineering and Math
N1303749	Engineering Design and Development (PLTW)	1	Science, Technology, Engineering and Math
13036500	Engineering Design and Presentation I	1	Science, Technology, Engineering and Math
N1303745	Aerospace Engineering (PLTW)	1	Science, Technology, Engineering and Math
13037600	Digital Electronics	1	Science, Technology, Engineering and Math
13037500	Engineering Science	1	Science, Technology, Engineering and Math
N1303746	Environmental Sustainability (PLTW)	1	Science, Technology, Engineering and Math
13037300	Engineering Design and Problem Solving	1	Science, Technology, Engineering and Math
13036600	Engineering Design and Presentation II	2	Science, Technology, Engineering and Math
N1302812	Introduction to C+ Programming Applications	1	Science, Technology, Engineering and Math
03580300	Computer Science II	1	Science, Technology, Engineering and Math
13027700	Computer Programming II	1	Science, Technology, Engineering and Math
03580350	Computer Science III	1	Science, Technology, Engineering and Math
13036900	Solid State Electronics	1	Science, Technology, Engineering and Math
N1302805	Geographical Information Systems (GIS)	1	Science, Technology, Engineering and Math
13039600	Automotive Technology I: Maintenance and Light Repair	2	Transportation, Distribution and Logistics
13039300	Energy and Power of Transportation Systems	1	Transportation, Distribution and Logistics
13039900	Paint and Refinishing	2	Transportation, Distribution and Logistics
13039910	Paint and Refinishing/Advanced Transportation Systems Laboratory	3	Transportation, Distribution and Logistics
13039700	Automotive Technology II: Automotive Service	2	Transportation, Distribution and Logistics
13039710	Automotive Technology II: Automotive Service/Advanced Transportation Systems Laboratory	3	Transportation, Distribution and Logistics
13040450	Practicum in Transportation Systems (First Time Taken)	2	Transportation, Distribution and Logistics
13040455	Practicum in Transportation Systems/Extended Practicum in Transportation Systems (First Time Taken)	3	Transportation, Distribution and Logistics
13040460	Practicum in Transportation Systems (Second Time Taken)	2	Transportation, Distribution and Logistics
13040465	Practicum in Transportation Systems/Extended Practicum in Transportation Systems (Second Time Taken)	3	Transportation, Distribution and Logistics
13039400	Aircraft Airframe Technology	2	Transportation, Distribution and Logistics
-	Aircraft Airframe Technology/Advanced Transportation Systems Laboratory	3	Transportation, Distribution and Logistics
-	Aircraft Powerplant Technology	2	Transportation, Distribution and Logistics
13039510	Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory	3	Transportation, Distribution and Logistics
13040160	Diesel Equipment Technology II	2	Transportation, Distribution and Logistics
13040170	Diesel Equipment Technology II/Advanced Transportation Systems Laboratory	3	Transportation, Distribution and Logistics
13040300	Distribution and Logistics	1	Transportation, Distribution and Logistics
	Raster Based Geographic Information Systems	1	Transportation, Distribution and Logistics
13040470	Practicum in Distribution and Logistics (First Time Taken)	2	Transportation, Distribution and Logistics
13040475	Practicum in Distribution and Logistics/Extended Practicum in Distribution and Logistics (First Time Taken)	3	Transportation, Distribution and Logistics
13040480	Practicum in Distribution and Logistics (Second Time Taken)	2	Transportation, Distribution and Logistics
13040485	Practicum in Distribution and Logistics/Extended Practicum in Distribution and Logistics (Second Time Taken)	3	Transportation, Distribution and Logistics
	Maritime Science II	1	Transportation, Distribution and Logistics
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N1304667	Advanced Shipboard Engineering	1	Transportation, Distribution and Logistics
N1304675	Aviation Ground School	1	Transportation, Distribution and Logistics
Note: This advanced CTE course list will be used to fund \$50 for each full-time equivalent student enrolled in two or more advanced CTE courses for a total of three or more credits.			