



Kent Career Tech Center

REAL LIFE. REAL LEARNING.

a program of **Kent ISD**

Programs of Study Guide | Kent Career Tech Center 2025-26 Enrollment

The Programs of Study included in this guide provide examples of potential paths for students from high school to careers.

Engineering, Manufacturing, and Industrial Technology

- Applied Construction Technology.....1
- Auto Collision Repair..... 2
- Automotive Technology.....3
- Aviation Electronics.....4
- Aviation Maintenance Technology.....5
- Diesel & Equipment Technology.....6
- Engineering.....7
- Heating, Air, Refrigeration (HVACR).....8
- Mechatronics.....9
- Precision Machining.....10
- Welding Technology.....11

Human Services

- Criminal Justice.....12
- Hospitality & Culinary.....13
- Teacher Academy.....14

Business, Management, Marketing, and Technology

- Entrepreneurship & Marketing.....15
- Marketing + Design.....16
- Networking & Cyber Security.....17

Arts & Communication

- Digital Animation & Game Programming.....18
- Graphic Communications.....19

Natural Resources & Agriscience

- Agriscience for Plants & Animals.....20

Health Sciences

- Diagnostics.....21
- Emergency Medical Services (EMS).....22
- Health Career Foundations.....23
- Medical Assistant (MA).....24
- Nurse Tech/Patient Care Tech (NT/PCT).....25
- Pharmacy Technician.....26

Applied Construction Technology Program of Study

CIP 46.0000 Construction Trades



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. PE, Health, World Lang); some requirements may be waived or met through CTE classes
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Applied Construction	English 11	Algebra 2	Physics	Civics & Economics	
	12	Applied Construction Optional Year 2	English 12	4th-year Math	electives or other graduation requirements		
	Possible Certifications			Possible College Credits			
Career Connections-Level 3 One Trade, Many Careers CITF OSHA-10			Davenport University 13 articulated credits		Northern Michigan University 2 or 5 articulated credits		
After High School Graduation	Possible Paths After High School		Possible Careers				
	Certificate	GRCC Residential Construction Certification of Completion West Michigan Construction Institute Commercial Construction	Construction Laborer; Cement Mason; Heavy Equipment Operator; Framers; Roofer; Drywallers; Painter; Trim Carpenter; Flooring Installer, Tiler; Landscaper; Deck Installer; Siding Installer				
	Apprenticeship	Michigan Regional Council of Carpenters Apprenticeship Training Program or Independent Carpenters Plumbers and Electricians Apprenticeships GRCC, Construction Electrical Apprentice	Journeyman Carpenter; Journeyman Electrician; Journeyman Plumber; Journeyman Mason				
	Associate	GRCC, Architectural Technology, A.A.A.S. Ferris, Building Construction Technology or Civil Engineering, A.A.S.	Building Construction, Inspectors, Construction Foreman, HVAC, Surveying, Architectural, Civil Engineering, Project Managers, Commercial Estimator				
	Bachelor	Ferris State University, Construction Management, B.S. Northern Michigan University, Construction Management B.S.	Construction Management; HVAC; Surveying; Civil Engineering; Construction Superintendent				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Auto Collision Repair Program of Study

C08, CIP 47.0603



Kent Career Tech Center
a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Auto Collision Repair	English 11	Algebra 2	Physics	Civics & Economics	
	12	Auto Collision Repair (Optional 2nd Year)	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications and College Credits available during high school						
		S/P2 Industry OSHA and EPA Safety Certification	I-CAR Platinum 1 Technician Certification: Non-Structural Repair	I-CAR Introduction to Automotive Collision Repair and Refinish Certification	Washtenaw Community College 8 credits		
		PPG PPG Painter Certification for PPG Products	I-CAR Steel GMA Welding Certified	I-CAR Platinum 1 Technician Certification: Paint and Refinishing	Davenport University 13 general business credits		
After High School Graduation	Possible Paths After High School				Possible Careers		
	Direct to Work Certificate	I-CAR certification Platinum Level 2-4 (provided by employer)			Painter, Body Technician, Detailer, Estimator, Paint Sales, Insurance Adjustor, Body Shop Equipment Sales and Service, Antique Vehicle Restoration		
	Washtenaw Community College Auto Body Repair CTAUBR , (20 credits)						

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Automotive Technology - Program of Study



C08a, CIP 47.0604

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Automotive Technology Year 1	English 11	Algebra 2	Physics	Civics & Economics	
	12	Automotive Technology Year 2	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications and College Credits available during high school						
	State of Michigan Mechanics Certification 2 certifications - 2nd year		ASE Student Certification 1 certifications possible 1st year 5 certifications possible 2nd year		Grand Rapids Community College 5 articulated credits Baker College 8 articulated credits		Ferris State University 8 articulated credits University of Northwestern Ohio 6 articulated credits
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	GRCC Automotive Servicing Certificate (32 credits)		Entry-level Auto Industry Lab Testing or Service Technician, Manufacturing Technician, Electrical/Electronics Technician, Maintenance, Quality Technician, Utility Infrastructure Technician, and Sales/Service Support			
	Associate	GRCC Automotive Technology A.A.A.S. (63 credits) Ferris Automotive Service Technology (67-68 credits)		Mid-Level Auto Industry Lab Testing or Service Technician, Utility Smart Grid Technician, Mid-Level Electrical/Electronics Technician			
	Bachelor	Ferris Automotive Management (128-129 credits) Ferris Automotive Engineering Technology (131-132 credits)		Automotive Service or Lab Manager, Program Manager, Utility/Field Engineer, Project Engineer, Tes Engineer, Utility Supervisor, Maintenance Supervisor, Development Lab Supervisor			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Aviation Electronics - Program of Study

C08a, CIP 47.0609



Kent Career Tech Center
a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang); some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Aviation Electronics	English 11	Algebra 2	Physics	Civics & Economics	
	12	Aviation Electronics (Optional 2nd Year)	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
		ASTM	NCATT AET	Ferris State University	Western Michigan University	GRCC	Davenport University
		Foreign Object Damage	Avionics Technician Certification	2 direct credits in year 1	6-12 articulated credits; 3 direct in Year 2	2 articulated credits	Up to 13 articulated credits in 2 years
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	Direct from KCTC with AET School Of Missionary Aviation Lansing Community College of Aviation Western Michigan University Aviation		Avionics Technician, Airframe and Powerplant Mechanics, Military, Aircraft Fueler, Aircraft/Aerospace Assembler			
	Associate	Lansing Community College of Aviation		Avionics Technician, Pilot, Military, Airframe and Powerplant Mechanics, Aerospace Engineer, Aircraft/Aerospace Assembler			
Bachelor	Western Michigan University Aviation		Pilot, Military, Airframe and Powerplant Mechanics, Aerospace Engineer, Aircraft/Aerospace Assembler				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Aviation Maintenance Technology - Program of Study

C08a, CIP 47.0607

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang); some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Aviation Maintenance Technology	English 11	Algebra 2	Physics	Civics & Economics	
	12	Aviation Maintenance Technology	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
		ASTM Foreign Object Elimination (FOE)	ASTM Aircraft/Aerospace Assembler (AAA)	Ferris State University 2 direct credits (1st Year)	Western Michigan University 6-15 credits (1st Year)	GRCC 2 articulated credits	Davenport University Up to 13 articulated credits in 2 years
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	School Of Missionary Aviation Legacy Aviation Learning Center		Airframe and Powerplant Mechanics, Military, Aircraft handler, Aircraft/Aerospace Assembler.			
	Associate	Lansing Community College of Aviation		Pilot, Military, Airframe and Powerplant Mechanics, Aerospace Engineer, Aircraft/Aerospace Assembler.			
Bachelor	Western Michigan University Aviation		Pilot, Military, Airframe and Powerplant Mechanics, Aerospace Engineer, Aircraft/Aerospace Assembler				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Diesel & Equipment Technology Program of Study

C08a, CIP 47.0399



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Diesel & Equipment Technology Year 1	English 11	Algebra 2	Physics	Civics & Economics	
	12	Diesel & Equipment Technology Year 2	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
Available Certifications S/P2 Mechanical & Pollution Heavy Duty Truck (HDT)		Baker College Possible future credits available	Ferris State University 13 articulated credits possible		Davenport University 13 articulated credits possible		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	Commercial Driver's License Automotive Service Excellence (ASE) Certification Michigan Mechanic Certification		Automotive Diesel Repair Technician, Heavy Equipment Industrial Repair Technician (off road), Marine Equipment Repair Technician, Railroad Equipment Repair Technician			
	Associate	Ferris Heavy Equipment Technology (63-65 credits) University of Northwestern Ohio Diesel Technology, Medium/Heavy Duty (112 credits, 26 months)		Automotive Diesel Repair Manager, Heavy Equipment Industrial Repair Manager (off road), Marine Equipment Repair Manager, Railroad Equipment Repair Manager			
Bachelor	Ferris Heavy Equipment Service Engineering Technology (120-122 credits) University of Northwestern Ohio Automotive Technology Supervision (125 credits)		Automotive Repair Business Owner, Off Road Repair Business Owner				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Engineering & Design Program of Study

C08, CIP 15.1306



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Engineering *Launch U Early Middle College option	English 11	Algebra 2	Physics	Civics & Economics	
	12	Engineering (Optional 2nd Year)	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications and College Credits available during high school						
		Occupational Safety and Health Administration (OSHA-10 hour)	Autodesk Certified User: AutoCAD (ACU)	Grand Rapids Community College 9 articulated credits		Davenport University 13 general business articulated credits	
			SolidWorks Certified Associate (CSWA - Mechanical Design)	Baker College 2 articulated credits		Northern Michigan College 8 articulated credits	
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	WMU Integrated Design and Manufacturing (16 credits) GRCC Mechanical Design Certificate (24 Credits)		Engineering Drafter, CNC Operator, CNC Programmer, Manufacturing Apprentice			
	Associate	LaunchU Engineering & Mechanical Design, AAAS (25 credits) GRCC Mechanical Engineering, AAAS (60 credits) Northern Michigan University, Engineering Design AAAS (60 credits)		Engineering Drafter/Designer, Engineering Tech, CNC Operator/Programmer, Engineering/Manufacturing Apprentice			
	Bachelor (~120 credits)	GVSU Mechanical Engineering B.S. Ferris Product Design Engineering Technology B.S. Kettering Mechanical Engineering B.S. Michigan Tech Mechanical Engineering, B.S. Univ of Michigan Mechanical Engineering B.S.		Mechanical Engineer, Engineering Manager, Manufacturing Engineer, Process Engineer, Electrical Engineer, Electronics Engineer, Inventor, Materials/Metallurgical Engineer, Model Maker, Researcher, Structural Engineer, Civil Engineer, Facilities Engineer,			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Heating, Air, Refrigeration (HVACR) Program of Study

CIP 47.0201 Heating, Air Conditioning, Ventilation & Refrigeration



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	HVAC-R Year 1	English 11	Algebra 2	Physics	Civics & Economics	
	12	HVAC-R Year 2	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications			Possible College Credits			
EPA Section 608 Technician Certification			Grand Rapids Community College 9 articulated credits		Northern Michigan University 12 articulated credits		
					Davenport University 13 articulated credits		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	GRCC - HVACR Certificate Northern Michigan University - HVACR Certificate		HVAC Sheet Metal Installer, HVAC Service Tech, HVAC Installer Apprentice, Plumbing Apprentice, Sheet Metal Apprentice			
	Associate	Ferris State University, HVACR Technology Grand Rapids Community College, HVACR Technology AAAS		HVACR Supervisor, System Designer, Sales Representative			
	Bachelor	Ferris State University, HVACR Engineering Technology & Energy Management		HVAC Construction Manager, HVAC/Energy Engineer, Applications Engineer, Project Manager/Engineer, Project Estimator, BAS Controls Technician, Technical Sales, Control System Trainer, In-Plant Engineer			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Mechatronics Program of Study

CIP 14.4201 Mechatronics



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Mechatronics	English 11	Algebra 2	Physics	Civics & Economics	
	12	Advanced Mechatronics - Optional Year 2 for eligible students.	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications			Possible College Credits			
Smart Automation Certification Alliance (SACA)		Mechatronics Internship through KCTC	Grand Rapids Community College 2 articulated credits		Northern Michigan University 7 articulated credits		
			Baker College 9 articulated credits		Davenport University 7 articulated credits		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Industry Certification	Fanuc Robotic Training, Fluid Power Certificates; GRCC Electrical Controls/Mechatronics Certificate, GRCC Industrial Maintenance Certificate		Industrial Maintenance Technician, Robotics Technician, Electro-Mechanical & Mechatronics Technician			
	Associate	GRCC, Electronics Engineering Technology AAAS; Electrical Controls Engineering Technology AAAS FSU, Industrial Electronics Technology AAS; Mechanical Engineering Technology AAS		Electronic Engineer Technician, Industrial Engineer Technologist, Automation Engineer Technician, Production Supervisor, Machinist, Industrial Controls Technician, Robotics Programmer, PLC Programmer			
	Bachelor	FSU, Electrical Engineering Technology BS; Mechanical Engineering Technology BS GVSU, Electrical Engineering BSE; Mechanical Engineering BSE		Electrical Engineer, Mechanical Engineer, Manufacturing Engineer, Production Engineer, Application Engineer			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Precision Machining Program of Study

C08a, CIP 48.0501



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry or Physics	World History	
	11	Precision Machining Technology	English 11	Algebra 2	3rd science or CTE	Government and Economics	
	12	Advanced Precision Machining Technology	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
Available Certifications		Grand Rapids Community College		Davenport College			
Mastercam Mill 2d, ToolingU		22 articulated credits possible		13 articulated credits possible			
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	GRCC Manufacturing Programs (20-30 credits) CNC programming, Machine Tool, Manuf.Apprenticeship, Plastics-Polymer Engineering, Tooling & Manuf.		Machinist, CNC Machinist, CNC programmer, Apprentice Mold Maker/Tool maker			
	Associate	Ferris State University GRCC Manuf. Programs		Machinist, CNC Machinist, CNC programmer, Apprentice Mold Maker/Tool maker			
Bachelor	Engineering (Manufacturing, Mechanical) WMU, Ferris State, Michigan Tech, GVSU		Manufacturing Engineer, Mechanical Engineer, Project Manager, Tooling Manager				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Welding Technology Program of Study

C08a, CIP 48.0508



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. PE, Health, World Lang); some requirements may be met or waived through CTE classes
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Welding Technology Year 1	English 11	Algebra 2	Physics	Civics & Economics	
	12	Welding Technology Year 2	English 12	4th-year Math	electives or other graduation requirements		
During High School	Possible Certifications		Possible College Credits				
	Available Certifications		Grand Rapids Community College	Baker College			
	SENSE 1 OSHA-10		11 articulated credits	25 articulated credits			
After High School Graduation			Northern Michigan College	Northwestern Michigan College		Sullivan University	
			11 articulated credits	16 articulated credits		20 articulated credits	
Possible Paths After High School			Possible Careers				
Certificate	GRCC Welding Skills certificate (16 Credits) GRCC Welding Certificate (27 Credits) Baker College: Welding Training Certificate (27 Credits)		Welders, Cutters, Solderers and Brazers; Industrial Maintenance Mechanics and Technicians; Plumbers, Pipe Fitters, and Steamfitters; Fire Protection System Installer				
Associate	GRCC: Welding Technology Associates Degree (60 Credits) Ferris: A.A.S. Welding Technology (65 Credits)		Welder General and Operations Managers; Electrical Technicians and Technologists; Engineering Technicians and Technologists; Manufacturing Technicians; Purchasing Agents				
Bachelor	Ferris: B.S in Welding Engineering Technology (125 Credits)		First Line Supervisor of Personal Services Workers; Welding Supervisor, Inspector, Instructor, or Engineer; Mechanical Engineer				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Criminal Justice Program of Study

CIP 43.0100

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Local Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
Secondary	9	Graduation requirements or electives	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be waived or met through CTE classes</i>
	10	Graduation requirements or electives	English 10	Geometry	Chemistry	World History	
	11	Criminal Justice - A ("Completer" in one year)	English 11	Algebra 2	Physics	Civics & Economics	
	12	Criminal Justice - B (Optional advanced 2nd year)	English 12	4th-year Math	Graduation requirements or electives		
	Possible Certifications in CTE Classes			Possible College Credit in CTE Classes			
	NECI 911 Police and Fire Dispatching CPR, AED, First Aid, Naloxone Administration Stop the Bleed, Teen Mental Health First Aid			Ferris - 9 direct credits GRCC - 6 articulated credits GVSU - 3 articulated credits NMU - 4 articulated credits			
Post-Secondary	Possible Education Paths After High School		Possible Career Paths Aligned to Education Level (see Advance CTE's Career Clusters for more)				
	Direct from high school to industry		Corrections, Military (enlisted); Security guards; TSA security screener; Entry-level court clerk or bailiff				
	Certificate	NECI 911 Police and Fire Dispatching GVSU: Paralegal certification (30 credits) GRCC: Sherrif's Corrections Certificate (15 credits)	Dispatcher; Paralegal, Corrections officer; Entry-level probation/parole officer				
	Associate	GRCC: Juvenile Services A.A.A.S., Criminal Justice A.A.A.S. (w/ Michigan Corrections Officer Training Council certificate), Law Enforcement A.A.A.S. GRCC <u>Police Academy</u> : 2-semester program for candidates w/ associates Ferris: A.A. in Criminal Justice	Corrections officer; Police Officer, Paralegal				
	Bachelor	Ferris: Criminal Justice - Corrections B.S. Ferris <u>Police Academy</u> : Criminal Justice - Law Enforcement B.S (meets MCOLES curriculum) GVSU: Criminal Justice B.A, B.S.; Legal Studies & Prelaw Studies B.A., B.S.	Police officer; Parole or probation officer; Federal agent (USSS, DEA, ATF, HSI, FBI); Michigan state police/DNR; Forensics Scientist				
	Graduate Degree	GVSU & Ferris: Criminal Justice M.S.	Advanced roles in criminal justice and law enforcement, i.e. administration and management				
<p>Police Academy note: There are 20+ police academies in the state of Michigan offered through colleges and universities, as well as directly through the Michigan State Police. Each program varies in the timing of training, pre-requisite and admission requirements (age, fitness, credit hours),</p>							

Hospitality Program of Study

C08, CIP 12.0500



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be waived through CTE classes</i>
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Hospitality *Launch U Early Middle College option	English 11	Algebra 2	Physics	Government and Economics	
	12	Advanced Baking & Pastry or Advanced Culinary	English 12	4th-year Math	electives or other graduation requirements		
Possible Certifications and College Credits available during high school							
During High School	Available Certifications		Grand Rapids Community College	Baker College (Culinary Inst)	Northern Michigan University		
	ServSafe Manager ACF Fundamental Cook ACF Fundamental Pastry		11 articulated credits Sullivan University 10 articulated credits	25 articulated credits Northwestern Michigan College (GLCI) 10 articulated credits	8 articulated credits Ferris State University 6 articulated credits		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	GRCC Baking and Pastry Arts Certificate GRCC Craft Brewing, Packaging & Service Operations Certificate GRCC Culinary Arts Certificate GRCC Personal Chef Certificate		Baker, Chef or Head Cook, Food Service Manager, Industrial Production Manager, Personal Chef, Caterer			
	Associate	GRCC Culinary Arts, A.A.A.S. GRCC & Ferris State Pre-Hospitality Management A.A. Baker Culinary Arts Associate Northwest Michigan College GLCI Culinary Arts Associate		Restaurant owner, Food stylist, Caterer, Personal chef, Nutritionist, Food scientist, Food and beverage manager			
Bachelor	Sullivan University Hospitality Management Northern Michigan University Hospitality Leadership Ferris State University Hospitality Management		Restaurant owner, Food stylist, Caterer, Personal chef, Nutritionist, Food scientist, Food and beverage manager				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Teacher Academy Program of Study

C08a, CIP 13.0000



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Teacher Academy - Foundations	English 11	Algebra 2	Physics	Civics & Economics	
	12	Teacher Academy - Methods	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications and College Credits available during high school						
			Grand Valley State University 3 direct credits	Western Michigan University 6 articulated credits	Ferris State University 9 articulated credits		
			Central Michigan University 3 articulated credits	GRCC 3 articulated credits	Davenport University 19 articulated credits		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate/Credential	MiYDA		Substitute Paraprofessional, Paraprofessional, Child Care, Daycare			
	Associate	GRCC Education-Related Associate Degrees & Certificates Ferris State University Early Childhood ECED, Pre-Teaching EI (PTEL)/Secondary (PTSC)		Lead Pre-school Teacher or Childcare Provider			
	Bachelor	Grand Valley State University Michigan State University Western Michigan University Central Michigan University Saginaw Valley State University		Lead Teacher in Early Childhood, Elementary, Secondary, or Special Education			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Entrepreneurship & Marketing Program of Study

CIP 52.1999 Marketing Sales & Services Marketing Entrepreneurship



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Entrepreneurship & Marketing	English 11	Algebra 2	Physics	Civics & Economics	
	12	Entrepreneurship & Marketing or Marketing + Design	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
During High School	Communication Skills for Business Certification (Certiport)		100-101: Meta Certified Digital Marketing Associate (Meta Blueprint)		Northern Michigan University 4 articulated credits		Ferris State University 3 articulated credits
	Entrepreneurship & Small Business Certification (Certiport)		Google Digital Marketing & Ecommerce (Google) Google Project Management (Google)		Baker College 6 articulated credits		Davenport University 21 articulated credits
After High School Graduation	Possible Paths After High School				Possible Careers		
	Certificate	UFP Industries - Business Administration			Small Business Operator, Entrepreneur, Online Merchant, Brand Marketing Assistant		
		GRCC - Entrepreneurship Certificate					
	Associate	GRCC - Business Administration AB, Marketing AB,			Entrepreneur, Social Media Content Coordinator, Digital Content Developer, Digital Marketing Strategist, Marketing Consultant		
Davenport - Business Administration							
Bachelor	Davenport- Business, Management, Marketing			Market Research Analyst/Specialist, Advertising and Promotions Manager, Marketing Manager, Marketing Chief Officer			
	FSU - Business, Business Data Analytics, Marketing						

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Marketing+Design Program of Study

CIP 10.0301 Graphics & Printing Technology & Communications



Kent Career Tech Center
a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Marketing+Design	English 11	Algebra 2	Physics	Civics & Economics	
	12	Advanced Graphics or Entrepreneurship & Marketing	English 12	4th-year Math	electives or other graduation requirements		
	Possible Certifications and College Credits available during high school						
	Adobe Professional Certification (Certiport): Illustrator, InDesign, Photoshop		Grand Rapids Community College 18 articulated credits		Ferris State University 3 articulated credits		Davenport University 18 articulated credits
After High School Graduation	Possible Paths After High School			Possible Careers			
	Academic Certification	Ferris State: Advertising and Integrated Marketing Communication; Digital Marketing GVSU: Digital Media Undergraduate Certificate Ferris State: Design Certificate		Production Artist, Graphic Design Assistant, Data Entry/Customer Service, Brand Marketing Assistant, Communication Specialist, Media Assistant			
	Associate	GRCC: Marketing, A.B. Ferris State: Graphic Communications A.A.S.		Desktop Publisher, Web Designer, Social Media Coordinator, Multi-media Specialist, Digital Content Developer, Digital Marketing Strategist, Marketing Consultant			
	Bachelor	Ferris State: Graphic Design BFA Davenport: Business Administration - Marketing (Speciality: Digital Marketing & Promotion) GVSU: BFA in Studio Art, Graphic Design Emphasis; Advertising and Public Relations B.A., B.S. Ferris State: Marketing		Graphic Designer, Art Director, Branding Specialist, Web Developer, UX/UI Designer, Advertising and Promotions Manager, Marketing Manager, Marketing Chief Officer			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Networking & Cybersecurity Program of Study

CIP 11.1001 Systems Administration/Administrator

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Networking and Cybersecurity <i>*Launch U Early Middle College option</i>	English 11	Algebra 2	Physics	Civics & Economics	
	12	Advanced Networking & Cybersecurity (Optional Yr 2)	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
	Possible Certifications and College Credits available during high school						
Microsoft Office (Word, Excel, PowerPoint); Communication Skills for Business; Access; A+; IT Fundamentals; Security+, Network+			Grand Rapids Community College				
			24 articulated credits possible				
			Davenport University				
19 articulated credits possible							
After High School Graduation	Possible Paths After High School		Possible Careers				
	Certification Options	Security +, Network +	Telecommunications Line Installers + Repairers, Computer User Support Specialist (Help Desk), Integration Specialist, Telecommunications				
		GRCC CyberSecurity Certificate, Computer Science					
	Associate	GRCC: Computer Information Systems (CIS)	Network & Computer Systems Administrator; Web and Digital Interface Designers (UI/UX)				
		Ferris: Computer Information Technology or CIS					
Bachelor	Ferris: Computer Information Technology or CIS	Information Technology Project Manager, Computer & Information System Manager, Business Intelligence Analyst, Data Warehouse Specialist, Cybersecurity Specialist, Telecommunications Engineering Specialist, Information Security Engineers, Computer Programmer, Computer & Information Research Scientist					
	Davenport: Cyber Defense or CIS						
	Baker: Computer Science, Data Analytics, CIS, or IT & Cybersecurity						
	GVSU: Computer Science, Information Systems						

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Digital Animation & Game Programming Program of Study

CIP 11.0201 Computer Programming/Programmer



Kent Career Tech Center
a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>					
		English	Math	Science	Social Studies	Additional Classes	
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Digital Animation & Game Programming	English 11	Algebra 2	Physics	Civics & Economics	
	12	Digital Animation & Game Programming Optional Year 2	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications			Possible College Credits				
Certiport Information Technology Specialist Javascript			Ferris State University Up to 9 direct credits or 12 articulated		Grand Rapids Community College 12 articulated credits		
			Davenport University Up to 24 articulated credits		Baker College 15 articulated credits		
Possible Paths After High School			Possible Careers				
After High School Graduation	Direct to Industry	Self-study, Online specialized training	Programming Internship, 3D Animation Internship, Software Engineering Internship, Contract/Freelance Artist				
	Associate	GRCC, Computer Programming AAAS FSU, Digital Media AS FSU, Computer Information System (CIS) AAS	Digital Animation and Game Design, User Interface/Experience design (UI/UX), Animation and Motion Graphics, Digital Gaming & Interactive Media, Computer Information Systems Analyst, Computer Information Technology, Digital Media, Computer Programmers				
	Bachelor	FSU, Digital Animation/ CIS GVSU, Computer Science BS MSU, Games and Interactive Media BA	Computer & Information Systems Managers, Game Design and Development, Interactive Media, Digital Gaming & Interactive Media, Software Engineering/Developers, Video Game Designers				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Graphic Communications Program of Study

CIP 10.0301 Graphics & Printing Technology & Communications



Kent Career Tech Center
a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be met or waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Graphic Communications Year 1	English 11	Algebra 2	Physics	Civics & Economics	
	12	Advanced Graphics	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
		Adobe Professional Certification (Certport): Illustrator, InDesign, Photoshop	Grand Rapids Community College 18 articulated credits	Ferris State University 3 articulated credits		Davenport University 18 articulated credits	
After High School Graduation	Possible Paths After High School			Possible Careers			
	Direct to industry			Production Team Member, Pre-Press Technician, Print Technician, Bindery Worker, Screen Printer, Production Assistant, Production Artist			
	Academic Certification	Ferris State Graphic Productions Solutions Certificate Ferris State Design Certificate		Screen Printer, Production Assistant, Production Artist, Prepress Technicians, Print Binding and Finishing Workers, Printing Press Operators, Data Entry/Customer Service			
	Associate	GRCC: Web/UX Design and Development A.A.S Ferris State: Graphic Communications A.A.S.		Desktop Publisher, Web Designer, UX/UI Designer, Multi-media Specialist, Print Project Manager			
	Bachelor	Ferris: Graphic Design BFA Ferris: Graphic Media Management BS GVSU: BFA in Studio Art, Graphic Design Emphasis Kendall College: Fine Arts in Graphic Design		Graphic Designer, Art Director, Production Manager, Branding Specialist, Web Developer, UX/UI Designer, Project Estimator			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Agriscience for Plants and Animals Program of Study

C08a, CIP 01.0000



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements <i>Specific requirements may vary by school district</i>				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	<i>electives or other graduation requirements</i>	English 9	Algebra	Biology	American History	<i>local high school requirements (i.e. PE, Health, World Lang) some requirements may be waived through CTE classes</i>
	10	<i>electives or other graduation requirements</i>	English 10	Geometry	Chemistry	World History	
	11	Agriscience for Plants and Animals 1	English 11	Algebra 2	Physics	Government and Economics	
	12	Agriscience for Plants and Animals 1	English 12	4th-year Math	<i>electives or other graduation requirements</i>		
Possible Certifications and College Credits available during high school							
Available Certifications						Michigan State University 6 credits*	
Certified Green Industry Professional Michigan Certified Florist-Student level Certified Pesticide Applicator						Davenport University 13 credits**	
After High School Graduation	Possible Paths After High School			Possible Careers			
	Certificate	MSU Institute of Ag Technology Certificate Programs (~48-60 credits)		Forester, Landscaper, Arborist, Pest Scout, Electrician, Horse Trainer, Food Processing, Viticulture, Urban Forester, Sports Turf, Golf Course Management, Livestock Management, Nursery Management, Dairy Management, Organic Horticulture Management			
	Associate	MSU & Muskegon Community College Agriculture AAS (~ 60 credits) MSU & Montcalm Community College Agricultural Operations AAS, Agribusiness AAS, Pre-animal Health Tech (~60 credits)		Ag Operations, Landscape Management, Fruit/Vegetable Crop Production, Ag Operations, Ag Business, Pre-Animal Health Tech			
Bachelor	MSU Agriculture, Food and Natural Resources Education (~120 credits)		Agriculture Education, Environmental Studies and Sustainability, Environmental Economics and Management, Ag Business, Ag/Food/Nat Rec Education, Animal Science, Biosystems Engineering, Crop Soil Science, Forestry, Entomology, Sustainable Parks and Rec Tourism, Horticulture, Fisheries and Wildlife				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Diagnosics Program of Study (Health Sciences)

CIP 51.0000 Therapeutic Health Services

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements			
			English	Math	Science	Social Studies
During High School			Specific requirements may vary by school district			
	9	electives or other graduation requirements	English 9	Algebra	Biology	American History
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History
	11	Optional Year-One: Health Career Foundations or Diagnosics	English 11	Algebra 2	Physics	Civics & Economics
	12	Diagnosics	English 12	4th-year Math	electives or other graduation requirements	Additional Classes
					local high school requirements (i.e. World Language, Health, PE); some requirements may be met or waived through CTE classes	
	Diagnosics is a one-year course and can be taken in 11th or 12th grade. An optional 2nd Health Career Program may be selected from the list above. *11th-grade students must have completed Anatomy & Physiology or take it concurrently with Diagnosics. *11th-grade students must be 17 by February of 11th grade to take Diagnosics as a 11th-grader.					
	Possible Certifications			Possible College Credits		
	American Heart Association BLS CPR			Grand Rapids Community College		Ferris State University
	Medical Laboratory Assistant Certificate (CMLA)			2 articulated credits		2 articulated credits/1 direct credit
	Phlebotomy Certificate (CPT)			Baker College		Davenport University
	<i>*must be 17 to get certified; need to be 18 to secure employment as a phlebotomist or a medical lab assistant</i>			8 articulated credits		10 articulated credits
After High School Graduation	Possible Paths After High School			Possible Careers		
		Direct from KCTC		Phlebotomist, Medical Laboratory Assistant		
	Certificate	GRCC Radiographer, MRI, and Computed Tomography (CT)		Radiographer		
	Associate	GRCC Radiologic AAAS, MRI AAAS Ferris State University Radiology AAS		MRI Technician		
	Bachelor	GVSU Medical Laboratory Technologist, BS GVSU Diagnostic Medical Sonography BS		Sonographer, Registered Radiologist Assistant, Nuclear Medicine Technician, Medical Laboratory Technologist		

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Emergency Medical Services Program of Study (Health Sciences)

CIP 51.0000 Therapeutic Health Services



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. World Language, Health, PE); some requirements may be met or waived through CTE classes
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Optional Year-One: Health Career Foundations or Diagnostics	English 11	Algebra 2	Physics	Civics & Economics	
	12	Emergency Medical Technician (EMT)	English 12	4th-year Math	electives or other graduation requirements		
	EMT is a one-year course and can be taken in 12th grade. 11th graders may select an optional 1st-year Health Career Program from the list above.						
Possible Certifications			Possible College Credits				
CPR/First Aid/AED National Registry of Emergency Medical Technicians: EMR, EMT			Grand Rapids Community College 2 articulated credits		Ferris State University 2 articulated credits		
			Baker College 8 articulated credits		Davenport University 10 articulated credits		
After High School Graduation	Possible Paths After High School			Possible Careers			
	Direct from KCTC			Emergency Medical Technician (EMT), Paramedic, Specialist/AEMT			
	Certificate/Associate	GRCC Health Programs		Licensed Practical Nurse (LPN), Associate Degree Registered Nurse (ADN)			
	Bachelor	BSN (BS in Nursing), BHSA (Bachelor in Health Service Administration)		Clinical Laboratory Technician, Registered Nurse (RN)			

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Health Career Foundations Program of Study (Health Sciences)



CIP 51.0000 Therapeutic Health Services

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11 or 12	Health Career Foundations	English 11	Algebra 2	Physics	Civics & Economics	local high school requirements (i.e. World Language, Health, PE); some requirements may be met or waived through CTE classes
	12	Health Sciences Year 2 Options: Diagnostics, Patient Care Tech/Nurse Tech (PCT/NT), Emergency Medical Technician (EMT), Medical Assistant (MA), or Pharmacy Technician (PhT)	English 12	4th-year Math	electives or other graduation requirements		
	Health Career Foundations is a one-year course and can be taken in 11th or 12th grade. An optional 2nd-year Health Careers Program may be selected from the list above.						
Possible Certifications				Possible College Credits			
Heartsaver First Aid & CPR				Grand Rapids Community College 4 articulated credits		Ferris State University 2 articulated credits/3 direct credits	
				Baker College 8 articulated credits		Davenport University 10 articulated credits	
After High School Graduation	Possible Paths After High School			Possible Careers			
		Direct from KCTC		Patient Transport, Nutrition Services Tech, Home Health Aide, Environmental Services			
	Certificate	CEU's through the NHA, EPC, PHTLS Ferris State Certificate Programs, GRCC Health Programs		Medical Assistant, Emergency Medical Technician, Certified Phlebotomist, Nurse Tech/Patient Care Tech, Dispatcher, Pharmacy Tech, Licensed Practical Nurse			
	Associate	GRCC Health Programs Ferris State University Health Professions		Radiologic Technician, Surgical Technician, COTA, PTA, and RN (Associate Degree Registered Nurse), Health Information Technology Professional, Dental Hygienist			
	Bachelor	BSN (BS in Nursing); BHSA (Health Service Administration) GVSU, Ferris, Baker, Davenport BS Degree		Clinical Laboratory Scientist, Registered Nurse, Diagnostic Sonographer (Ultrasound), Athletic Trainer, Respiratory Therapy, Health Information Technology			
Graduate	GVSU MSN, MS Davenport University MSN		Nurse Practitioner (NP), Physician Assistant, Occupational or Physical Therapist, Physician				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Medical Assistant Program of Study (Health Sciences)

CIP 51.0000 Therapeutic Health Services



Kent Career Tech Center

a program of Kent ISD

A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. World Language, Health, PE); some requirements may be met or waived through CTE classes
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Optional Year-One: Health Career Foundations or Diagnostics	English 11	Algebra 2	Physics	Civics & Economics	
	12	Medical Assistant (MA)	English 12	4th-year Math	electives or other graduation requirements		
MA is a one-year course and is only open to seniors. An optional 1st-year Health Career Program can be selected from the list above. MA externship: not required, but to participate, the student must be 18. Phlebotomy externship: student must be 17; not all students qualify for phlebotomy or choose to take it							
Possible Certifications				Possible College Credits			
American Heart Association BLS CPR Certified Medical Assistant (CCMA) Phlebotomy Certificate (CPT) *must be 18 to secure employment				Grand Rapids Community College 4 articulated credits		Ferris State University 2 articulated credits	
				Baker College 8 articulated credits		Davenport University 10 articulated credits	
After High School Graduation	Possible Paths After High School			Possible Careers			
		Direct from KCTC		Medical Assistant, Phlebotomist			
	Certificate	GRCC Practical Nursing (35 credits; must pass state licensing exam)		Licensed Practical Nurse (LPN)			
	Associate	GRCC Health Programs		Associate Degree Registered Nurse (ADN), Senior Medical Assistant/MA Supervisor			
Bachelor	Ferris State University or Baker College Bachelor of Nursing (BSN) Baker College Healthcare Administration		Registered Nurse (RN), Health Administration, Medical Health Services Manager				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Patient Care Tech/Nurse Tech Program of Study (Health Sciences)

CIP 51.0000 Therapeutic Health Services



A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

	Grade	Career Tech Education Classes	Sample Graduation Requirements				
			English	Math	Science	Social Studies	Additional Classes
During High School	9	electives or other graduation requirements	English 9	Algebra	Biology	American History	
	10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
	11	Optional Year-One: Health Career Foundations or Diagnostics	English 11	Algebra 2	Physics	Civics & Economics	
	12	Patient Care Tech/Nurse Tech (PCT/NT)	English 12	4th-year Math	electives or other graduation requirements		
	PCT/NT is a one-year course and can be taken in 12th grade. 11th graders may select an optional 1st-year Health Career Program from the list above.						
Possible Certifications			Possible College Credits				
American Heart Association BLS CPR					Ferris State University 2 articulated credits		
cPCT/A (Patient Care Technician)			Baker College 2 articulated credits		Davenport University 10 articulated credits		
After High School Graduation	Possible Paths After High School		Possible Careers				
		Direct from KCTC	Patient Care Tech, Nurse Tech, Home Health Aide, Resident Aide, Phlebotomist, Telemetry Technician				
	Certificate/Associate	GRCC Health Programs	Licensed Practical Nurse (LPN), Associate Degree Registered Nurse (ADN)				
	Bachelor	Davenport University BSN (BS in Nursing) GVSU BSN	Registered Nurse (RN), Nurse Manager				
	Graduate	GVSU MSN, MS Davenport University MSN	Nurse Practitioner (NP), Physician Assistant				

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.

Pharmacy Technician Program of Study (Health Sciences)

CIP 51.0000 Therapeutic Health Services



A program of study provides a clear path for students from high school to career. Different careers have different recommended paths and this document seeks to clarify these options and paths.

Grade	Career Tech Education Classes	Sample Graduation Requirements				
		English	Math	Science	Social Studies	Additional Classes
Specific requirements may vary by school district						
9	electives or other graduation requirements	English 9	Algebra	Biology	American History	local high school requirements (i.e. World Language, Health, PE); some requirements may be met or waived through CTE classes
10	electives or other graduation requirements	English 10	Geometry	Chemistry	World History	
11	Optional Year-One: Health Career Foundations or Diagnostics	English 11	Algebra 2	Physics	Civics & Economics	
12	Pharmacy Technician (PhT)	English 12	4th-year Math	electives or other graduation requirements		
PhT is a one-year course and can be taken in 12th grade. 11th graders may select an optional 1st-year Health Career Program from the list above.						
Possible Certifications				Possible College Credits		
American Heart Association BLS CPR Certified Pharmacy Technician (cPhT)						Ferris State University 2 direct credits
				Baker College 8 articulated credits		Davenport University 10 articulated credits
Possible Paths After High School				Possible Careers		
Direct from KCTC				Pharmacy Technician, Certified Pharmacy Technician, Licensed Pharmacy Technician		
Associate	GRCC Pre-Pharmacy AA or AS			Licensed Pharmacy Technician, Certified Pharmacy Technician		
Bachelor	GVSU Pre-Pharmacy Studies Ferris State University Biology/Pre-Pharmacy Concentration			Pharmacy Supervisor, Pharmaceutical Sales, Health Services Manager		
Doctor of Pharmacy	Ferris State University Doctor of Pharmacy (Pharm.D.)			Pharmacist		

Helpful Information: CIP stands for classification of instructional program. Because the names of classes can vary between schools, all state-approved Career Tech Education (CTE) classes have a 6-digit code that identifies what content is covered in the class. Articulated credits are college credits that students may be eligible to receive through the successful completion of their CTE program. Earning these credits is usually specific by college and is dependent on meeting all requirements.