





## 2020-2021 CTE Programs and Pathways


		AGRICULTURE, FOOD, AND NATURAL RESOURCES PROGRAM		
		Animal Science Pathway		
#	Course	Credit	Grade	Location
1	Principles of Agriculture, Food, and Natural Resources <i>No Prerequisite</i>	1.0	9-11	All HS
2	Small Animal Management (Fall) <i>Prerequisite: Principles of Agriculture, Food and Natural Resources</i>	0.5	10-12	All HS
2	Equine Science (Spring) <i>Prerequisite: Principles of Agriculture, Food and Natural Resources</i>	0.5	10-12	All HS
3	Livestock Production (Advanced CTE Course) <i>Prerequisite: Small Animal Management and Equine Science</i>	1.0	11-12	All HS
4	Advanced Animal Science (Advanced CTE Course) <i>Prerequisite: Biology and Chemistry or IPC; Algebra I and Geometry; Livestock Production; At least 3 credits in Animal Science Pathway</i>	1.0	12	All HS
4	<b>Veterinary Medical Applications + Lab</b> (Advanced CTE Course) <i>Prerequisite: Livestock Production; At least 3 credits in Agriculture pathway</i>	2.0	12	<b>RCTC</b>
	Floral Design (Non-Pathway Course) <i>No Prerequisite</i>	1.0	9-12	All HS

2020-2021 CTE Programs and Pathways


		ARCHITECTURE AND CONSTRUCTION PROGRAM		
		Architectural Design Pathway		
#	Course	Credit	Grade	Location
1	Principles of Architecture <i>No Prerequisite</i>	1.0	9-11	All HS
2	Architectural Design I <i>Prerequisite: Principles of Architecture, Algebra I, and English I</i>	1.0	10-12	All HS
3	Architectural Design II (Advanced CTE Course) <i>Prerequisite: Architectural Design I and Geometry</i>	2.0	11-12	All HS
4	<b>Career Preparation I</b> (Advanced CTE Course) <i>Prerequisite: Architectural Design II</i>	2.0	12	RCTC

		ARCHITECTURE AND CONSTRUCTION PROGRAM		
		Electrical Pathway		
#	Course	Credit	Grade	Location
1	<b>Principles of Construction</b> <i>Prerequisite: Concurrent enrollment in Electrical Technology I</i>	1.0	11-12	RCTC
2	<b>Electrical Technology I</b> <i>Prerequisite: Concurrent enrollment in Principles of Construction</i>	1.0	11-12	RCTC
3	<b>Electrical Technology II</b> (Advanced CTE Course) <i>Prerequisite: Principles of Construction and Electrical Technology I</i>	2.0	12	RCTC


		ARCHITECTURE AND CONSTRUCTION PROGRAM		
		HVAC and Sheet Metal Pathway		
#	Course	Credit	Grade	Location
1	<b>Principles of Construction</b> <i>Prerequisite: Concurrent enrollment in Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I</i>	1.0	11-12	RCTC
2	<b>Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I</b> <i>Prerequisite: Concurrent enrollment in Principles of Construction</i>	1.0	11-12	RCTC
3	<b>Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II</b> (Advanced CTE Course) <i>Prerequisite: Principles of Construction and Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I</i>	2.0	12	RCTC


		ARCHITECTURE AND CONSTRUCTION PROGRAM		
		Plumbing and Pipefitting Pathway		
#	Course	Credit	Grade	Location
1	<b>Principles of Construction</b> <i>Prerequisite: Concurrent enrollment in Plumbing Technology I</i>	1.0	11-12	RCTC
2	<b>Plumbing Technology I</b> <i>Prerequisite: Concurrent enrollment in Principles of Construction</i>	1.0	11-12	RCTC
3	<b>Plumbing Technology II</b> (Advanced CTE Course) <i>Prerequisite: Principles of Construction and Plumbing Technology I</i>	2.0	12	RCTC

2020-2021 CTE Programs and Pathways


		ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS PROGRAM		
		Digital Communications Pathway		
#	Course	Credit	Grade	Location
1	Principles of Arts, A/V Technology and Communications <i>No Prerequisite</i>	1.0	9-11	All HS RCTC
2	<b>Audio/Video Production I + Lab</b> <i>Prerequisite: Principles of Arts, AV Technology and Communications</i>	2.0	10-12	RCTC
3	<b>Audio/Video Production II + Lab</b> (Advanced CTE Course) <i>Prerequisite: Audio Video Production I + Lab</i>	2.0	11-12	RCTC
	Professional Communications (Non-Pathway Course) <i>No Prerequisite</i>	0.5	9-12	All HS

## 2020-2021 CTE Programs and Pathways


	BUSINESS, MARKETING, AND FINANCE PROGRAM			
	Business Management Pathway			
#	Course	Credit	Grade	Location
1	Principles of Business, Marketing, and Finance <i>No Prerequisite</i>	1.0	9-11	All HS
2	Business Information Management I <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	1.0	10-12	All HS
3	Business Management (Advanced CTE Course) <i>Prerequisite: Business Information Management I</i>	1.0	11-12	All HS
4	<b>Career Preparation I</b> (Advanced CTE Course) <i>Prerequisite: Business Management</i>	2.0	12	<b>RCTC</b>
	Touch System Data Entry (Non-Pathway Course) <i>No Prerequisite</i>	0.5	9-12	All HS
	Securities and Investments (Non-Pathway Course) <i>No Prerequisite</i>	1.0	10-12	All HS

	BUSINESS, MARKETING, AND FINANCE PROGRAM			
	Marketing and Sales Pathway			
#	Course	Credit	Grade	Location
1	Principles of Business, Marketing, and Finance <i>No Prerequisite</i>	1.0	9-11	All HS
2	Business Information Management I <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	1.0	10-12	All HS
3	Sports and Entertainment Marketing (Fall) <i>Prerequisite: Business Information Management I</i>	0.5	10-12	All HS
3	Advertising (Advanced CTE Course) (Spring) <i>Prerequisite: Business Information Management I</i>	0.5	10-12	All HS
4	<b>Career Preparation I</b> (Advanced CTE Course) <i>Prerequisite: Sports and Entertainment Marketing and Advertising</i>	2.0	12	<b>RCTC</b>
	Touch System Data Entry (Non-Pathway Course) <i>No Prerequisite</i>	0.5	9-12	All HS
	Securities and Investments (Non-Pathway Course) <i>No Prerequisite</i>	1.0	10-12	All HS


2020-2021 CTE Programs and Pathways

		<b>EDUCATION AND TRAINING PROGRAM</b>		
		<b>Teaching and Training Pathway</b>		
#	Course	Credit	Grade	Location
1	<b>Principles of Education and Training</b> <i>No Prerequisite</i>	1.0	9-10	All HS <b>RCTC</b>
2	<b>Human Growth and Development</b> <i>Prerequisite: Principles of Education and Training</i>	1.0	10-11	All HS <b>RCTC</b>
3	<b>Instructional Practices</b> (Advanced CTE Course) <i>Prerequisite: Human Growth and Development</i>	2.0	11	<b>RCTC</b>
4	<b>Practicum in Education and Training</b> (Advanced CTE Course) <i>Prerequisite: Instructional Practices</i>	2.0	12	<b>RCTC</b>


2020-2021 CTE Programs and Pathways


		HEALTH SCIENCE PROGRAM		
		Healthcare Therapeutics Pathway		
#	Course	Credit	Grade	Location
1	Principles of Health Science <i>No Prerequisite</i>	1.0	9-11	All HS
2	Medical Terminology <i>Prerequisite: Principles of Health Science</i>	1.0	10-11	All HS
3	Anatomy and Physiology (Advanced CTE Course) <i>Prerequisite: Biology and a second Science; Principles of Health Science and Medical Terminology if part of a coherent sequence for graduation</i>	1.0	10-12	All HS <b>RCTC</b>
4	Health Science Theory (Advanced CTE Course) <i>Principles of Health Science, Medical Terminology, and Anatomy and Physiology</i>	1.0	11-12	All HS
4	<b>Practicum in Health Science</b> (Advanced CTE Course) <i>Principles of Health Science, Medical Terminology, and Anatomy and Physiology</i>	2.0	12	<b>RCTC</b>

2020-2021 CTE Programs and Pathways

		<b>HOSPITALITY AND TOURISM PROGRAM</b>		
		<b>Culinary Arts Pathway</b>		
#	Course	Credit	Grade	Location
1	<b>Culinary Arts</b> <i>No Prerequisite</i>	2.0	10-11	RCTC
2	<b>Advanced Culinary Arts</b> (Advanced CTE Course) <i>Prerequisite: Culinary Arts</i>	2.0	11-12	RCTC
3	<b>Practicum in Culinary Arts</b> (Advanced CTE Course) <i>Prerequisite: Advanced Culinary Arts</i>	2.0	12	RCTC


2020-2021 CTE Programs and Pathways

		HUMAN SERVICES PROGRAM		
		Family and Community Services Pathway		
#	Course	Credit	Grade	Location
1	Principles of Human Services <i>No Prerequisite</i>	1.0	9-11	All HS
2	Human Growth and Development <i>Prerequisite: Principles of Human Services</i>	1.0	9-12	All HS
3	Counseling and Mental Health (Advanced CTE Course) <i>Prerequisite: Human Growth and Development</i>	1.0	10-12	All HS
4	Family and Community Services (Advanced CTE Course) <i>Prerequisite: Counseling and Mental Health</i>	1.0	11-12	All HS


		HUMAN SERVICES PROGRAM		
		Cosmetology Pathway		
#	Course	Credit	Grade	Location
1	<b>Principles of Cosmetology Design and Color Theory</b> <i>Prerequisite: Concurrent enrollment in Cosmetology I</i>	1.0	11	RCTC
1	<b>Cosmetology I</b> <i>Prerequisite: Concurrent enrollment in Principles of Cosmetology Design and Color Theory</i>	2.0	11	RCTC
2	<b>Cosmetology II</b> (Advanced CTE Course) <i>Prerequisite: Principles of Cosmetology Design and Color Theory and Cosmetology I</i>	2.0	12	RCTC




2020-2021 CTE Programs and Pathways


		<b>INFORMATION TECHNOLOGY PROGRAM</b>		
		<b>Networking Systems Pathway</b>		
#	Course	Course #	Grade	Location
1	<b>Principles of Information Technology</b> <i>Prerequisite: Concurrent enrollment in Computer Maintenance + Lab</i>	1.0	10-12	RCTC
1	<b>Computer Maintenance + Lab</b> <i>Prerequisite: Concurrent enrollment in Principles of Information Technology</i>	2.0	10-12	RCTC
2	<b>Networking + Lab</b> (Advanced CTE Course) <i>Prerequisite: Computer Maintenance + Lab</i>	2.0	11-12	RCTC

2020-2021 CTE Programs and Pathways


		LAW AND PUBLIC SERVICE PROGRAM		
		Emergency Services Pathway		
#	Course	Credit	Grade	Location
1	<b>Disaster Response</b> <i>Prerequisite: Concurrent enrollment in Emergency Medical Technician - Basic</i>	1.0	11-12	RCTC
2	<b>Emergency Medical Technician – Basic</b> <i>Prerequisite: Biology; Concurrent enrollment in Disaster Response</i>	2.0	11-12	RCTC
3	<b>Firefighter I</b> (Advanced CTE Course) <i>Prerequisite: Disaster Response and Emergency Medical Technician – Basic</i>	2.0	12	RCTC


		LAW AND PUBLIC SERVICE PROGRAM		
		Law Enforcement Pathway		
#	Course	Credit	Grade	Location
1	Principles of Law, Public Safety, Corrections, and Security <i>No Prerequisite</i>	1.0	9-11	All HS
2	Law Enforcement I <i>Prerequisite: Principles of Law, Public Safety, Corrections, and Security</i>	1.0	10-12	All HS
3	<b>Criminal Investigations</b> <i>Prerequisite: Law Enforcement I; Concurrent enrollment in Law Enf. II</i>	1.0	11-12	RCTC
4	<b>Law Enforcement II</b> (Advanced CTE Course) <i>Prerequisite: Law Enforcement I; Concurrent enrollment in Criminal Investigations</i>	1.0	11-12	RCTC
	Forensic Science (Non-Pathway Course) <i>Prerequisite: Biology and Chemistry</i>	1.0	10-12	All HS RCTC


2020-2021 CTE Programs and Pathways

		MANUFACTURING PROGRAM		
		Welding Pathway		
#	Course	Credit	Grade	Location
1	<b>Introduction to Welding</b> <i>Concurrent enrollment in Welding I</i>	1.0	11-12	RCTC
2	<b>Welding I</b> <i>Prerequisite: Concurrent enrollment in Introduction to Welding</i>	2.0	11-12	RCTC
3	<b>Welding II</b> (Advanced CTE Course) <i>Prerequisite: Introduction to Welding and Welding I</i>	2.0	12	RCTC


2020-2021 CTE Programs and Pathways


	SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS PROGRAM			
	Engineering Pathway			
#	Course	Credit	Grade	Location
1	Introduction to Engineering Design <i>No Prerequisite</i>	1.0	9-11	All HS
2	Engineering Science (Advanced CTE Course) <i>Prerequisite: Introduction to Engineering Design; Algebra I and Biology; Currently enrolled in Chemistry, IPC, or Physics</i>	1.0	10-12	All HS
3	Civil Engineering and Architecture (Advanced CTE Course) <i>Prerequisite: Engineering Science; Currently enrolled in Geometry or higher</i>	1.0	11-12	All HS
4	Engineering Design and Development (Advanced CTE Course) <i>Prerequisite: Civil Engineering and Architecture</i>	1.0	12	All HS

	SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS PROGRAM			
	Programming and Software Development Pathway (AP Track)			
#	Course	Credit	Grade	Location
1	Computer Science I Pre-AP <i>Prerequisite: Algebra I</i>	1.0	9-11	All HS
2	AP Computer Science Principles <i>Prerequisite: Computer Science I Pre-AP</i>	1.0	10-12	All HS
3	AP Computer Science A (Advanced CTE Course) <i>Prerequisite: Algebra I, Computer Science I Pre-AP, and AP Computer Science Principles</i>	2.0	10-12	All HS
4	Computer Science III (Advanced CTE Course) <i>Prerequisite: AP Computer Science A</i>	1.0	12	All HS

	SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS PROGRAM			
	Programming and Software Development Pathway			
#	Course	Credit	Grade	Location
1	Fundamentals of Computer Science <i>No Prerequisite</i>	1.0	9-11	All HS
2	Computer Programming I <i>Prerequisite: Fundamentals of Computer Science</i>	1.0	10-12	All HS
3	Mobile App Development (Advanced CTE Course) <i>Prerequisite: Computer Programming I</i>	1.0	10-12	All HS
4	Computer Programming II (Advanced CTE Course) <i>Prerequisite: Mobile App Development</i>	1.0	11-12	All HS

2020-2021 CTE Programs and Pathways

		TRANSPORTATION, DISTRIBUTION, AND LOGISTICS PROGRAM		
		Automotive Pathway		
#	Course	Credit	Grade	Location
1	<b>Automotive Technology I: Maintenance and Light Repair</b> (Advanced CTE Course) <i>No Prerequisite</i>	2.0	10-12	RCTC
2	<b>Automotive Technology II: Automotive Service</b> (Advanced CTE Course) <i>Prerequisite: Automotive Technology I</i>	2.0	11-12	RCTC
3	<b>Career Preparation I</b> (Advanced CTE Course) <i>Prerequisite: Automotive Technology II</i>	2.0	12	RCTC

		TRANSPORTATION, DISTRIBUTION, AND LOGISTICS PROGRAM		
		Diesel and Heavy Equipment Pathway		
#	Course	Credit	Grade	Location
1	<b>Diesel Equipment Technology I</b> <i>No Prerequisite</i>	2.0	10-12	RCTC
2	<b>Diesel Equipment Technology II</b> (Advanced CTE Course) <i>Prerequisite: Diesel Equipment Technology I</i>	2.0	11-12	RCTC
3	<b>Career Preparation I</b> (Advanced CTE Course) <i>Prerequisite: Diesel Equipment Technology II</i>	2.0	12	RCTC

**2020-2021 CTE Programs and Pathways**

<b>MIDDLE SCHOOL COURSES</b>			
<b>Course</b>	<b>Credit</b>	<b>Grade</b>	<b>Location</b>
Dollars and Sense (Spring) (Non-Pathway Course) <i>No Prerequisite</i>	0.5	8	All MS (based on staffing)
Lifetime Nutrition and Wellness (Fall) (Non-Pathway Course) <i>No Prerequisite</i>	0.5	8	All MS (based on staffing)
Interpersonal Studies (Spring) (Non-Pathway Course) <i>No Prerequisite</i>	0.5	8	All MS (based on staffing)
Investigating Careers (Non-Pathway Course) <i>No Prerequisite</i>	0	7-8	All MS (based on staffing)
Gateway to Technology 1-2 (Non-Pathway Course) <i>No Prerequisite</i>	1.0	8	CMS, GMS, JBMS
Principles of Applied Engineering (Non-Pathway Course) <i>No Prerequisite</i>	1.0	8	All MS (based on staffing)
Touch System Data Entry (Fall) (Non-Pathway Course) <i>No Prerequisite</i>	0.5	8	All MS (based on staffing)
Fundamentals of Computer Science <i>No Prerequisite</i>	1.0	8	All MS (based on staffing)