



Clinton County RESA  
**Career Connections**  
dream it... connect it... accomplish it

# COURSE GUIDE



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## ALLIED HEALTH

Does caring for individuals who are sick interest you? Or trying to determine what illness a person has? Maybe you like approaching health from an angle of prevention, or developing research for cures, or using technology to treat a disease. In Allied Health, students will build a wide range of basic knowledge that can be applied to a variety of health care careers. This knowledge base includes (but is not limited to) learning medical terms, medical ethics, prevention of illness, anatomy of body systems as well as the diseases that affect that system, how food and exercise play a role in health, and a view into insurance. Students will take that knowledge and apply it to health care skills such as taking vital signs, performing CPR & using an AED, basic patient care skills (use of wheelchair, bathing, feeding) and safety precautions. There is a lot to learn if you want to work in health care, but students will tell you it does not feel like work if you are interested in learning how your body works in health and illness.



**LOCATION**  
CCRESA

**CAREERS**  
Registered Nurse, Phlebotomist, CNA, Family Physician, Radiologic Technician

**ACADEMIC AND TECHNICAL SKILLS**  
Ability to work through problems for a solution, critical thinking, and good communication skills.

**\*YEAR TWO OPTION**  
**\*DIRECT COLLEGE CREDIT**  
**\*CAPITAL REGION TECHNICAL EARLY COLLEGE (CRTEC) OPPORTUNITY**

# AUTO SERVICES

## ASE MLR rated class

If you are a student who enjoys taking things apart and putting them back together or wrenching on your own car, the Auto Services program may be a great fit for you! You will have access to an online book, spend minimal time in the classroom and get right to work out in the shop. Our curriculum will cover (but is not limited to) brakes, suspension, electrical, engine performance, engine repair, HVAC, manual and auto transmission and introduction into electric cars. You will have the opportunity to obtain Automotive Service Excellence (ASE) entry-level certifications in 2 years, receiving 8-10 certifications. When you successfully complete the class, the goal is for you to be a better consumer and have the skills necessary in helping automotive technicians. Other opportunities, if you work hard, are entry level positions at a tire shop, oil change station or an automotive dealership. If you choose to attend college after high school you will be more advanced than other students.



## LOCATION

St. Johns High School

## CAREERS

Service Technician, Auto Technician, Diesel Mechanic.

## ACADEMIC AND TECHNICAL SKILLS

Math, science and reading skills, online learning, mechanically inclined, hands on learning, deductive reasoning, critical thinking, willingness to work hard and get your hands dirty.

**\*YEAR TWO OPTION**

## BUSINESS MANAGEMENT

Ever wonder what it takes to own your own business, be your own boss and write your own paycheck? This course will introduce students to the world of entrepreneurs and their role in the economy. During the first semester students will combine an online and traditional learning experience with an emphasis on entrepreneurship and starting a business while having work experiences in the class print shop and café, typically alternating one week working in the business and one week online. Along with running two businesses, students will have the opportunity to write a business plan for an innovative idea of their own.

Second semester will provide students with a more in-depth work experience in the café and the print shop with an emphasis on business ownership.

This course is a must have for the future business leader!



### LOCATION

DeWitt High School

### CAREERS

Sales Manager, Marketing Manager, Administrative Manager, Human Resources Manager

### ACADEMIC AND TECHNICAL SKILLS

Strong writing, time-management, and leadership skills; highly organized; effective in a team setting; strong researcher and critical thinker.

**\*YEAR TWO OPTION**

## CAD & DESIGN TECHNOLOGY

CAD and Design Technology is a program for those interested in designing and creating, drawing, house design, product design, 3D computer graphics and working with your hands and mind. This project-based program allows you to gain high-level experience and skills in engineering design and architecture. You will learn how these disciplines interact in the building of products or buildings and communities. Turn ideas into products using the same design, drafting and 3D modeling as professional architects and engineers.

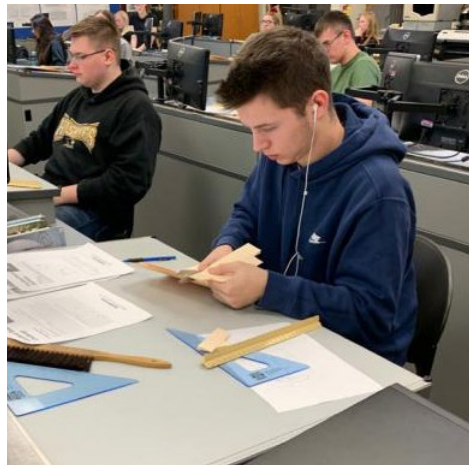
### DESIGN PATH OPTIONS

#### ENGINEERING PATH:

If you choose this path, you will learn the basic and advanced skills common to all engineering careers while learning about different engineering disciplines. Learn to sketch ideas, use 2D and 3D CAD software and 3D printing to examine the results of your designs.

#### ARCHITECTURAL PATH:

You will learn to read and create blueprints, learn to create architectural sketches, presentation drawings and working drawings for homes and light commercial buildings. See designs come to life through model mock ups and 3D printing.



### CERTIFICATIONS

Have the opportunity to earn certifications in AutoCAD, SolidWorks, Revit and other CAD design software programs

### LOCATION

St. Johns High School

### CAREERS

Drafter/CAD Technician, Engineer, Architect, Landscape Architect, Interior Design, Construction Careers and many more related career opportunities.

### ACADEMIC AND TECHNICAL SKILLS

Have good basic math and writing skills, skilled at time management, highly organized, effective in team setting, strong researcher, and a critical thinker.

**\*YEAR TWO OPTION**

## COMPUTER NETWORKING & TECHNOLOGY

The Computer Networking & Technology program is designed to start students on a Cybersecurity Pathway. It provides an in-depth look at Cybersecurity and how computers and networks operate. Overview of Operating Systems and Hardware, Principles of Security, Introduction to Cryptography, Physical Security, Web Security, Malicious Software and Attacks, Vulnerabilities and how to Defend them.

You will install, configure, and secure various operating systems. You will also troubleshoot computers and peripherals using systems tools and other diagnostic software. You will have the opportunity to develop the skills in building, maintaining, and administering modern computer networks.

You will also meet with and connect with workers in the cyber security industry from around the state from both the government and public sector.

During the Computer Networking & Technology Program, you will have the opportunity to take the CompTIA ITF+, A+ and Network+ certification exams.



### LOCATION

CCRESA

### CAREERS

Computer Support Specialists, Network & Computer Systems Administrators, Information Systems Analyst, Cyber Crime Analyst

### ACADEMIC AND TECHNICAL SKILLS

Basic computer skills, windows familiarity, strong problem solving skills, highly organized, and likes to work with computers and technology.

**\*DIRECT COLLEGE CREDIT**

**\*CAPITAL REGION TECHNICAL EARLY COLLEGE (CRTEC) OPPORTUNITY**



## CONSTRUCTION TRADES

Construction Trades is a course that will be taught using a combination of learning in a lab setting and learning in the field. If you enjoy working with your hands, building things and being outdoors, this may be a great fit for you! If you choose to take this opportunity, it may include a major residential building project.

Students will become acquainted with all the procedures of building a house - completing and acquiring permits, foundation work, floor framing, wall building, roof construction, electrical, plumbing, heating and cooling, insulating, drywall, trim, interior and exterior doors and exterior finishes. At the end of the year students will be able to demonstrate proficiency in basic building procedures and practices.



### LOCATION

CCRESA

### CAREERS

Carpenter, Plumber, Electrician, Heating & Cooling, Roofer, Concrete Laborer, Construction Manager, Inspector

### ACADEMIC AND TECHNICAL SKILLS

Strong safety skills, critical thinker, highly organized, math skills, excellent in working with a team and strong work ethic.

**\*YEAR TWO OPTION**

## CRIMINAL JUSTICE

If the legal industry excites you this program may be a great fit! You will start the year with being introduced to the components of the criminal justice system. You will examine corrections, courts, police systems, as well as the history, relationships, administration and philosophy of the criminal justice system. You will learn the importance of community-based corrections services including sentencing alternatives and process, probation, parole and imprisonment. Does criminal investigation sound fun? We will cover that too! You will study the rules of evidence from its history development through the present day. You will learn all of this using real world cases. Don't worry, you are not just sitting in the classroom! There will be many opportunities for hands-on training and opportunities to visit and learn from local agencies. You will also earn your first aid certification!



**LOCATION**  
CCRESA

**CAREERS**  
Police Officers, lawyers, corrections officers, border patrol agents, probation/parole officers

**ACADEMIC AND TECHNICAL SKILLS**  
Increased self confidence, public speaking skills, critical thinking, use of force continuum, active listening, attention to detail

**\*YEAR TWO OPTION**  
**\*DIRECT COLLEGE CREDIT**

## EDUCATION - EARLY CHILDHOOD

Did you know that early childhood development is a foundation for over 100 careers? Understanding how children grow and develop is important to many fields beyond Education and Childcare (teachers, classroom aids, administrative, bus drivers). Consider how understanding child development impacts the fields of pediatric medicine (doctors, nurses, surgeons, radiology), therapy specialists (physical, occupational, speech and language, audiology) mental health (counseling, play and art therapy, forensic interviewing), family services (social workers, parenting support, child welfare, child life specialist), general services (child photography, party planning, children's entertainer, parks/recreation, camp, coaching), and legal and non-profit careers (child protection law, juvenile justice, Advocacy). In addition to learning about how children develop, you will learn about guiding children's behavior and communicating effectively with children. Early Childhood isn't just for future teachers and childcare professionals. If you are considering a career that involves working with people-consider getting your foundation in Early Childhood - you won't regret it!



**LOCATION**  
CCRESA

**CAREERS**  
Preschool teacher, classroom assistant, bus driver/aid, home visitor, early childhood program administration

**ACADEMIC AND TECHNICAL SKILLS**  
Confidentiality practices; communication skills; writing, time management & organizational skills.

**\*YEAR TWO OPTION**  
**\*DIRECT COLLEGE CREDIT**  
**\*CAPITAL REGION TECHNICAL EARLY COLLEGE (CRTEC) OPPORTUNITY**

## EMERGENCY SERVICE/FIRE SCIENCE

Are you interested in the Fire Service or related career fields? Do you want to be an Emergency Medical Technician/Paramedic? Fire and Emergency Services has a proud tradition of serving their communities with selfless dedication.

This program is a structured “attention on deck” environment and the training is exciting and meaningful. You will earn 32 industry standard certifications: NIMS/TIMS, Wildland Firefighter II, 1st Aid, CPR/AED, Blood Borne Pathogen, Body Substance Isolation and many more. The program offers reality simulations, scenarios and educational lessons immediately capturing the students attention, helping to improve training effectiveness and student readiness.

We offer online, project-based, hands-on learning and one-to-one interaction, helping you boost your skills and prepare you for a future in Emergency Services.

Do you have what it takes to fill these boots?



**LOCATION**  
CCRESA

**CAREERS**  
Firefighter, EMT/Paramedic, National Ski Patrol, Search and Rescue, Fire Inspector, Fire Investigator

**ACADEMIC AND TECHNICAL SKILLS**  
Strong work habits, organizational skills, participation in learning experiences related to the field, willingness to learn, active member of a team, and communicating professionally.

**\*YEAR TWO OPTION**

## SPORTS MEDICINE

This course is for those wishing to pursue one of the many professions within the field of Sports Medicine. Included in this course are components of Kinesiology, Exercise Science, Physical Activity, Injury Prevention, Rehabilitation, Nutrition, and maintaining a Healthy Lifestyle. You will be provided the opportunity to understand and navigate the college/university environment, value of learning, and student responsibilities within the healthcare professions. Also, you will learn about the healthcare culture, interprofessional education, ethical and legal issues, employment opportunities and market demands. All of this while having the opportunity for hands-on experiences and real-world situations. You will be able to participate in job shadowing with local employers getting you ready for your career!



### LOCATION

CCRESA

### CAREERS

Athletic Trainer, Biomechanist, Coaching, Chiropractor, Cardiac Rehabilitation Specialist, Sports & Exercise Psychologist

### ACADEMIC AND TECHNICAL SKILLS

Interested in health care, overall mind-body wellness, or physical activity, interacting with others, ability to apply critical thinking, passion for helping others achieve health/wellness goals, and effective in a team setting functioning as both a leader and under the direction of a group leader.

**\*DIRECT COLLEGE CREDIT**

## VIDEO & AUDIO PRODUCTION

**Video Production:** If you choose this program you will receive extensive hands-on experience in all facets of video production, both in the studio and in the field. The class contains a broadcast journalism unit featuring TV newscasts using a professional broadcast TV news set. You will also learn the role of reporter, photographer, drone photographer, director, writer, producer, and editor. Do you like to learn script writing, storyboarding, producing, directing, lighting, videography, computer video editing, and special effects generation? We do all that too! Video projects include: music videos, short films, commercials, feature packages, and other special projects.

**Audio Production:** This component of the course emphasizes the creation of audio projects, including commercials, podcasts, dramatic work, talk shows and music. Audio fundamentals and advanced audio production are covered.

**Digital Media Production:** You will learn to integrate video and audio programs into digital media formats. Emphasis will be on taking finished programs and converting them into streaming media for the web.



### LOCATION

Ovid-Elsie High School

### CAREERS

Multimedia journalist (MMJ), filmmaker, video production company owner, digital media specialist, podcaster, drone camera operator, broadcaster, voice over actor, professional announcer, photographer, director, producer, editor, writer, vlogger.

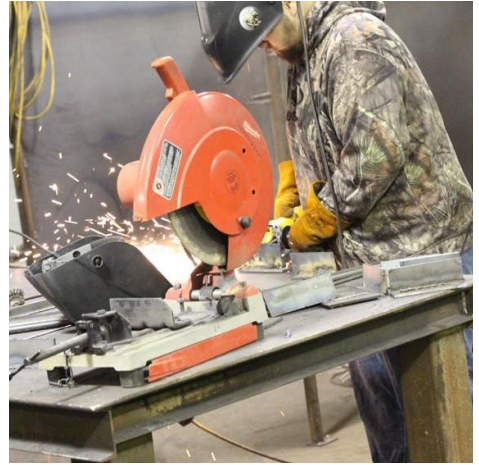
### ACADEMIC AND TECHNICAL SKILLS

Students must have strong writing skills, time management, highly organized, creative, effective in a team setting, strong researcher and a critical thinker.

**\*YEAR TWO OPTION**

## WELDING

Clinton County Career Connections Welding is the introductory class to SMAW (stick), GMAW (MIG), GTAW (TIG), PAC, and Oxy/Fuel. Students will learn fabrication techniques and blueprint reading for current industry standards and job placements. Average pay rate for a two year experienced welder and fabricator are upwards of 50-100k per year income with 5-10 year experienced welders making upwards of 170k per year. Fabrication and welding industries are in high demand and are increasing. Joint setups common to the industry will be assigned and welded by students. Most students upon completing RESA Welding courses have jobs in that field or are aligned with a potential employer. Steel, aluminum, stainless steel, and cast iron are used in the class and are welded with up-to-date welding machines and processes. Advanced students can learn pipe welding procedures as well, and are often at an even higher rate of income with the opportunity to travel if employed in the pipeline and boiler-making industry.



### LOCATION

Ovid-Elsie High School

### CAREERS

Aerospace Welder, Construction Welder, Manufacturing Welder, Iron Workers, Sheet Metal Workers, Fabrication, Pipe Fitters

### ACADEMIC AND TECHNICAL SKILLS

Creative, strong work ethic, ability to read and understand blueprints, strong math skills, attention to detail, excellent oral and written communication skills, patience and strong work ethic.

**\*DIRECT COLLEGE CREDIT**

# STUDENT ORGANIZATIONS

Joining a student organization is a great way to show potential employers and colleges that you're serious about your career. These organizations assist students with leadership and citizenship skills, provide opportunities to compete against other students, and often provide scholarship opportunities.



## MICHIGAN FUTURE FARMERS OF AMERICA (FFA)

The official name of the organization is the National FFA Organization. The letters "FFA" stand for Future Farmers of America. These letters are a part of our history and our heritage that

will never change. FFA is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agricultural education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success. Members are future chemists, veterinarians, government officials, entrepreneurs, bankers, international business leaders, teachers and premier professionals in many career fields. FFA is an intracurricular student organization for those interested in agriculture and leadership. CPC students enrolled in the Animal Science & Zoo Management program will have the opportunity to participate in our Michigan FFA student chapter.

industry. HOSA integrates into the Health Science Education curriculum to develop and recognize smart, dedicated, and passionate future health professionals. CPC students enrolled in Health Technology I or II and Sports Medicine will have the opportunity to participate in our HOSA chapter.



## NATIONAL TECHNICAL HONOR SOCIETY (NTHS)

NTHS is the leader in acknowledging outstanding student achievement in career and technical

education. The Society is committed to the recognition of excellence in every arena of career and technical education including student achievement, community service, outstanding chapters and contributions from business, industry and educational professionals. NTHS encourages higher scholastic achievement, cultivates a desire for personal excellence and helps top students find success in today's highly competitive workplace. The society serves thousands of member schools and honors individuals for their leadership every year.



## HOSA (FUTURE HEALTH PROFESSIONALS)

HOSA was created

with the idea of providing students opportunities to develop as a leader and a future employee. HOSA has over 206,000 members across the nation. HOSA creates driven, determined student leaders that are excited about healthcare and all that HOSA has to offer. Above all, HOSA is a tool vital to the success of students, teachers, and health professionals. HOSA is 100% healthcare and connects all hubs of the healthcare field. One experience ignites another creating a chain reaction between those who teach, learn, and do.

HOSA operates as an integral component of the health science education curriculum. Through its network of state and local chapters, HOSA provides powerful instructional tools, recognition, leadership, networking, scholarships, and connections to the healthcare industry to thousands of members across the United States.

Through the HOSA Competitive Events Program, members can compete in teams or as individuals in over 55 different events related to all aspects of the healthcare



## SKILLSUSA

SkillsUSA is a national organization serving more than 372,354 high school and college students enrolled in training

programs in technical, skilled and service occupations. They are organized into 13,000 chapters and 53 state and territorial associations. SkillsUSA provides quality education and competitive experiences in leadership, teamwork, citizenship and character development. Students participate in regional, state and national competitions. More than 6,000 students typically compete at the annual national competition in over 100 areas. CPC students place well in state competition and have advanced to national competition many times. Students in the following programs participate in SkillsUSA: Auto Technology, Computer Security, Criminal Justice, Fire Science, Heavy Equipment Construction, Heavy Equipment Repair, Law Enforcement, Mechatronics & Robotics, Mechanical Engineering & Manufacturing and Welding.



## CAREER CONNECTIONS

Classes are open to high school juniors and seniors in Clinton County and your course may offer the chance to earn direct, articulated college credit or credit by exam.

For those classes offering direct credit, you will be enrolled as a Lansing Community College or Mid Michigan College student. You will have an official transcript that will list your grades by class at the end of the school year.

For those classes offering articulated credit, or high school credit by exam, students should verify with the respective post-secondary institution as to policies and procedures for obtaining credit.



All programs described in this course catalog are presented by Clinton County RESA in partnership with Bath Community Schools, DeWitt Public Schools, Fowler Schools, Ovid-Elsie Area Schools, Pewamo Westphalia Community Schools and St. Johns Public Schools.

*It is the policy of the Clinton County Regional Educational Service Agency (RESA) that no discriminatory practices based on gender, race, religion, color, age, national origin, disability, height, weight, marital status, sexual orientation, political affiliations and beliefs, or any other status covered by federal, state or local law be allowed in providing instructional opportunities, programs, services, job placement assistance, employment or in policies governing student conduct and attendance. Any person suspecting a discriminatory practice should contact the Associate Superintendent for Special Education, 1013 S. US-27, St. Johns, MI 48879, or call 989-224-6831.*

