



Career and Technical Education (CTE)

AUTOMOTIVE TECHNOLOGY

As you're coming to school in your friend's car, have you ever wondered how it works? One place to get the answers is by registering for an auto shop course. Here you will learn basic maintenance and how to maintain your vehicle. If you'd like more in depth information, advanced auto would make a great selection. Here you will be doing problem solving, pricing, and repairs. If you are thinking you'd like to make this your career choice, Vocational Auto will be the course. Voc. Autos will give you the jumpstart to trade school and your certification. Come join the team and learn the history of the automobile industry and explore what the future may hold. Learn how the mechanic has come from "*Greasemonkey*" to an Auto Technician.

BUILDING AND CONSTRUCTION TECHNOLOGIES

For all the students that like to build things with own hands, these classes are your chance to learn to build items from as small as a jewelry box all the way up to an entire house. Classes will start in the wood shop where you'll learn the use of tools and equipment along with safety. You'll build projects for yourself and projects for CHS. The basics of home building will taught in shop. When construction Technology is completed you could get into Building Trades where we actually build the entire house. You will do every step from the foundation to the finish work. You could be part of the biggest class project at CHS. Over all any CHS student will experience a lot of the trades and if they would like to get into a trade after graduation this would be an excellent place to start. Trades positions are open to all races and gender. There is a shortage of people to fill these jobs. Trades people are the ones who built America and you could be one of them by getting a good start here at CHS in the Vocational Trades Department. Possible careers: Residential and Commercial Construction, Electrical, Plumbing, HVAC, Roofing, Siding, Concrete work, Building Inspection, Construction Management, Building Estimation.



BUSINESS EDUCATION AND INFORMATION TECHNOLOGY

The Clinton High School Business Education and Information Technology Department assumes the lead role in preparing tomorrow's workforce with the technological skills necessary to operate in an ever changing digital society. Digital literacy teaching strategies and the implementation of numerous hands-on learning activities allow students to make the connections necessary to excel in today's business world.

Fifteen individual courses are offered at Clinton High School to accommodate all levels of academic pursuit. Entry level business courses challenge students to make connections with real world topics concerning finance, employment, ethics and effective consumer decisions.

Technology courses prepare students for the digital age, focusing on the use of Microsoft Office software as well as various other current software packages to gain experience with digital presentations and projects.

Accounting courses also secure an understanding of personal and business financial literacy. As an elective department, we strive to surpass the skills a digital literate student needs to compete in today's difficult work environment. All students at CHS are encouraged to take business course offerings! Business is a very popular major at many colleges. You will be exposed to many areas of business, within the business curriculum, which may aid in your choice of a business major at college.

<i>Various Business Careers</i>	<i>Median Salaries</i>
Accountant	\$73,550
Marketing and Advertising Executive	\$115,750
Manager-Human Resource Administrator	\$99,720
Financial Advisor	\$67,520
Computer Programmer	\$74,280
Information Technologist	\$102,190
Web Page Designer	\$62,500
Business Administrator	\$81,080

According to The Princeton Review, (2014-2015) "The number one college major is Business Administration and Management/Commerce." "Computer and Information Sciences ranks number ten within all declared majors at college."



FAMILY AND COMMUNITY SERVICES

The Family & Community Services courses offer hands-on and application learning experiences to improve the quality of life for individuals, families and communities. This goal is accomplished by offering diverse opportunities for students in the following coursework areas: Family Nutrition, Sanitation & Safety, Foods & Nutrition, Fundamentals of Baking, Meal Management, Culinary Practicum and Culinary Assistant. Each of these courses will identify, analyze and implement employability skills emphasized and aligned with industry standards. Industry skills such as communication, teamwork, managing changing technologies, leadership, factors to maintain safety, work ethics and professionalism.

Some highlights of the Family & Community Services program offers a strong emphasis through each course offering in the application and analysis of math principles, menu costs and conversions related to nutrition and the food industry. There will be opportunities for analyzing the building blocks of nutritional needs across the life-span, menu planning according to nutritional guidelines of various individual needs as a measure to make sensible and safe food choices related to the science of nutrition and the maintenance of nutritional well-being throughout life. In addition, students will have opportunities to overview, understand and implement the technical processes & methods involved in the commercial and institutional production, processing, preservation, storage & distribution of foods. Students may take advantage of learning and testing the ServSafe Curriculum leading to a certificate in Sanitation & Safety for food service employees. This certificate is required by most restaurants as a basic credential for their management staff and is administered by the National Restaurant Association.

These courses will be challenging and exciting, where students will engage in activities revolving around restaurant management, serving customers, through small and large batch cookery. Students may also be involved in service projects where the focus will not be on eating what they have made, but feeding others their products.

HEALTH SCIENCES

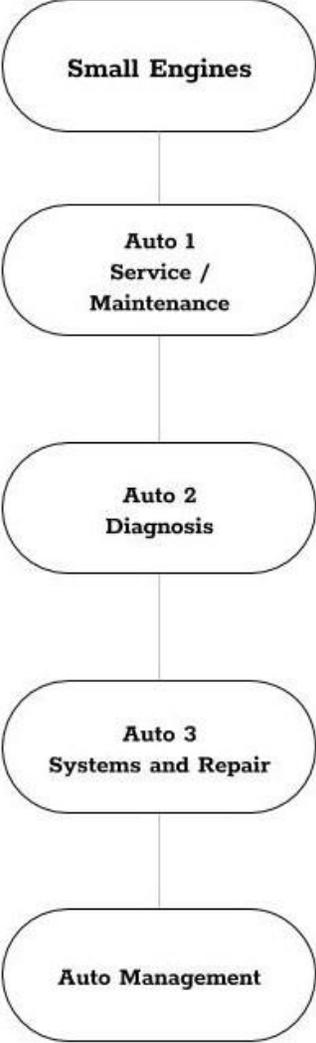
Are you a student interested in a possible career in health care? Do you enjoy a challenge or solving a puzzle? Then you need to explore some of the Health Science classes. Whether you are interested in a basic introduction to the various aspects of the healthcare profession or if you seek a better understanding of medical career possibilities there are a few classes to choose from. For those seriously interested in pursuing a career in one of many health care professions, you can even practice and perfect your professional and clinical skills in a healthcare setting and observe first hand many clinical fields. Come check out the health science classes. Possible careers: Nursing, Physician, Technician (Radiology, Respiratory, Surgery, Pharmacy), Therapist (Occupational, Physical, Speech), Biomedical Engineering, Health Information Technology & Management, Medical Assistant, and more!

WELDING TECHNOLOGY

We have all the courses in place for every student from the at home welder to the career welder. All the welding courses are taught as a flipped classroom. Each student is expected to watch the videos and read the assigned pages outside of class. Students should come to class prepared to discuss the topics and take pop-up quizzes. Each student is also required to be prepared to weld everyday. Students can take any welding course at anytime as long as they are in sequential order to the class flow chart. Students may not take sequential classes at the same time (example: SMAW Basic 1 and SMAW Basic 2). We are offering many new courses and disciplines with a flexible schedule. This means that different students may be taking different welding courses at the same time. Each student will be responsible to stay on their own track and will be able to progress at normal or faster than normal pace.



AUTOMOTIVE TECHNOLOGY



AUTO 2 (Automotive Diagnosis)

Grades: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Auto 1

Course Description: If you liked your experience in Auto 1 then you will want to take Auto 2 without a doubt! In Auto 2 you will begin learning the process of diagnosing problems that arise in the various systems of the vehicle. You will learn how to use service information systems, such as All Data as an aid in the diagnostic process. These systems will range anywhere from electrical issues, steering and suspension issues, to on board diagnostics (scan tools).

AUTO 3 (Automotive Systems Repair)

Grades: 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Auto 2

Course Description: Now that you learned how to diagnose problems with the various systems of a vehicle in Auto 2, it's time to fix the problems! In Auto 3 you will take all of the knowledge you gained in all of your previous Auto courses and put it to the test! We will diagnose and repair the various systems of a vehicle. Be ready to get your hands dirty!

AUTO MANAGEMENT

Grades: 11, 12

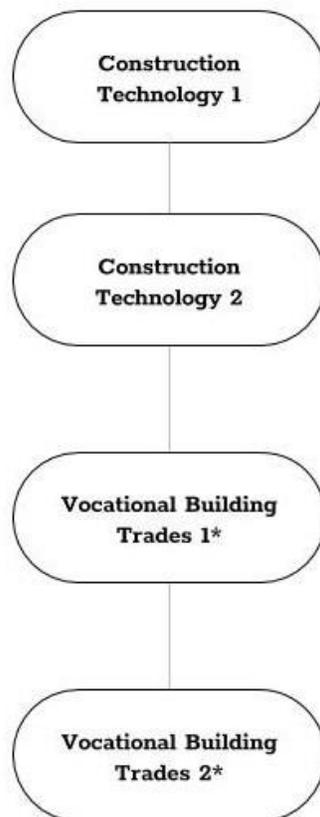
Semesters: 1 **Credits:** 1

Prerequisites: Auto 3

Course Description: So you have taken Auto 1-3 and still want more? This is the class for you then! In this class you will get to explore some of the other components of the automotive world. You will learn some light body work including dent repair and body work, learn to do some custom work such as window tinting, stereo installation, and custom wiring. Also you will get to learn how to detail cars inside and out to make them look car show ready!



BUILDING AND CONSTRUCTION TECHNOLOGIES



BUILDING AND CONSTRUCTION TECHNOLOGIES COURSE OFFERINGS

Below is a listing of courses offered through the CTE Department-Building and Construction Technologies. The graph indicates the course title, the grades that a student can take the offering, and the prerequisites for taking the class.

	Semesters	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Prerequisite Courses
Construction Technology 1	1	X	X	X	X	
Construction Technology 2	1		X	X	X	Construction Technology 1
Vocational Building Trades 1*	2 (2 periods)			X	X	Construction Technology 2
Vocational Building Trades 2*	2 (2 periods)				X	Vocational Building Trades 1

* Indicates Concurrent Enrollment with EICC



BUILDING & CONSTRUCTION TECHNOLOGIES

CONSTRUCTION TECHNOLOGY 1

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: None

Course Description: Students will learn the proper use and safety of the tools and equipment in the wood shop. This will be done by lessons in the classroom and demonstrations in the shop. Students will gain skills on the equipment to the point they can build projects and take away useful skills for projects around the home.

CONSTRUCTION TECHNOLOGY 2

Grade: 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Construction Technology 1

Course Description: Students will learn through classroom experiences the basics of residential construction. This will be done by instruction and study of vocabulary, tool use, blueprints and planning. Students will learn about home building by the use of the SMART board and pictures of a house through various stages of construction. Students will also enhance their woodshop skills by building large scale projects for school use.

VOCATIONAL BUILDING TRADES I

Grades: 11, 12

Semesters: 2 (2 periods) **Credits:** 4

Prerequisites: Construction Technology 2

Course Description: Students will see, learn and be a part of the complete building process of a new home. Students will work alongside of second year students to build a home from the foundation thru the finish work. Students will learn proper techniques, tools, materials, and job safety. Building Trades I will prepare the student to be a valued second year student. Attendance and skill proficiency in Construction Technology 2 will be considered for placement for this course.

VOCATIONAL BUILDING TRADES II

Grade: 12

Semesters: 2 (2 periods) **Credits:** 4

Prerequisite: Vocational Building Trades I

Course Description: Building Trades II students will help Building Trades I students build a new home from foundation to finish. These students will be expected to take on more advanced work due to their previous year of experience. These students will be more involved in the planning, preparing and supervising to create a highly productive work site. You will experience everything from the framing, roofing, siding, insulation, drywall, trim and cabinetry. At completion of this class a student should be experienced to a point to be able to enter an apprenticeship program of this field or gain employment with a contractor in these lines of construction. Attendance and skill proficiency in Vocational Building Trades I will be considered for placement for this course.



BUSINESS EDUCATION and INFORMATION TECHNOLOGY COURSE OFFERINGS

Below is a listing of courses offered through the CTE Department-Business Education and Information Technology. The graph indicates the course title, the grades that a student can take the offering, and the prerequisites for taking the class.

	Semesters	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Prerequisite Courses
Financial Literacy	1			X	X	
Computer Information and Technology	1	X	X	X	X	
Document Formatting*	1	X	X	X	X	Computer Information and Technology
Basic Spreadsheets*	1		X	X	X	
Accounting 1	2	X	X	X	X	
Introduction to Accounting*	2		X	X	X	Accounting 1
Computer Accounting - QuickBooks*	1			X	X	Introduction to Accounting
Introduction to Business	1	X	X	X	X	
Office Assistant	1			X	X	Computer Information and Technology, Document Formatting, suggested
College and Career Prep/Multi-Occupations COOP Program (MOC)	1 class 2 work			X	X	2 courses in any area of Career and Technical Education courses: Auto, Manufacturing, Construction Trades, Business, Family and Consumer Science.
Principles of Marketing	1	X	X	X	X	
Business Principles and Management	1	X	X	X	X	
College Readiness	1	X	X	X	X	

* Indicates Concurrent Enrollment with EICC



BUSINESS EDUCATION and INFORMATION TECHNOLOGY

FINANCIAL LITERACY

Grade: 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: None

Course Description: This course is designed to teach students about all aspects of personal finance. It will include such things as applying financial information, setting financial goals, exploring earning potential, investing, and understanding the importance of saving. Additional topics include: credit, risk management, Insurances, taxation, budgeting, costs post-secondary education, and retirement and estate planning. Students wanting to earn college credit must take the UNI course final. **This course is a graduation requirement.**

COMPUTER INFORMATION AND TECHNOLOGY

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: None

Course Description: This course is designed to develop techniques to format, create, modify, and enhance business documents used within current work environments. Emphasis will be placed on developing proper techniques for speed and accuracy and formatting both personal and business documents using Microsoft Office Word, PowerPoint, and Publishing. Students will have opportunities to explore vocational interests related towards career choices. Students who wish to continue in the computer sequence may go on to Computer Applications 1: Microsoft Word.

DOCUMENT FORMATTING: ADM 122, 2 Credits

COLLEGE CREDIT COURSE

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

CHS Prerequisites: Computer Information and Technology

CCC Prerequisites: Application

Course Description: This course is designed for the student with minimal keyboarding experience. The major objectives are to develop touch control of the keyboard with speed and accuracy through proper keyboarding techniques and to learn proper formatting of letters, simple tables, short reports, and memorandums.

BASIC SPREADSHEETS: BCA 147, 2 credits

COLLEGE CREDIT COURSE

Grade: 10, 11, 12

Semesters: 1 **Credits:** 1

CHS Prerequisites: None

CCC Prerequisites: Application

Course Description: This course offers the student the opportunity to learn the fundamentals of Microsoft Excel, to be exposed to practical examples of the computer as a useful tool, and to become acquainted with the proper procedures to create worksheets suitable for course work, professional purposes, and personal use. The student will learn to write formulas and use built-in functions, answer whatif questions, format spreadsheets, create graphs, and use the database functions of spread-sheets.

ACCOUNTING 1

Grade: 9, 10, 11, 12

Semesters: 2 **Credits:** 2

Prerequisites: None

Course Description: In Accounting I students learn how to systematically and accurately keep track of the money that a business earns and spends. The principles can also be applied to forming a personal accounting system. Those students considering taking accounting in college will find a background of high school accounting helpful. If a student continues into Accounting II, he/she has the opportunity to achieve college dual enrollment credit through Clinton Community College.



INTRODUCTION TO ACCOUNTING: ACC 111, 3 Credits
COLLEGE CREDIT COURSE

Grade: 10, 11, 12
2

Semesters: 2 **Credits:**

CHS Prerequisites: Accounting 1

CCC Prerequisites: Application

Course Description: This course serves as an introduction to the accounting cycle, and the structured systems and records used by small businesses and professional offices. The student will learn fundamental accounting concepts and principles that can be used directly in the workplace or as the foundation for further accounting coursework.

COMPUTER ACCOUNTING - QUICKBOOKS: ACC 332, 2 Credits
COLLEGE CREDIT COURSE

Grade: 11, 12

Semesters: 1 **Credits:** 1

CHS Prerequisites: Introduction to Accounting

CCC Prerequisites: Application, Introduction to Accounting

Course Description: In this course students will apply accounting concepts to keep financial records for small service and merchandising companies using the accounting software QuickBooks. Topics will include setting up a company, creating a chart of accounts, recording customer and vendor transactions, processing payroll, printing financial reports, recording adjusting entries and closing the accounting cycle.

INTRODUCTION TO BUSINESS

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: None

Course Description: Introduction to Business is a basic business course explaining the role of business in our present-day economic system. This course will help all students become wise consumers, good citizens, efficient employees, and thoughtful voters while contributing to the development of their total economic understanding. This class will cover the economic world, career planning, credit and business planning.

OFFICE ASSISTANT

Grade: 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Computer Information and Technology, Document Formatting suggested

Course Description: Students will work independently under the direction of a staff member. Duties will include but are not limited to: Organizing and maintaining files, preparing and sorting bulk mailings, sort and maintain mail and mailroom, learn and maintain office machines including but not limited to copier and fax, learn and utilize phone etiquette, and greet and escort CHS visitors. Students will have the opportunity to work in the main office, library, counseling office, and activities office. There is the option of an early bird period for students wanting to work from 7:05-8:15 a.m. *This course graded as a Pass/Fail course. *

CAREER PREP/MULTI-OCCUPATIONS COOP PROGRAM (MOC)

Grade: 11, 12

Semesters: 1 class/2 work **Credits:** 3

Prerequisites: 2 courses in any area of Career and Technical Education: Auto, Manufacturing, Construction Trades, Business, Family and Consumer Science.

Course Description: Prepare for life after high School. MOC will help the student develop a game plan to attack post-secondary education and employment opportunities. MOC consists of two parts: classroom instruction for one semester and two semesters of on the job training under the supervision of the employer and school coordinator.



Classroom Component: Students will start with diagnostic personality and interest inventories to prescribe possible career areas to pursue. In-depth individual work will be done to guide the students toward the best fitting career for the next 40 years of work. All aspects of the career will be investigated and studied. In addition, leadership, teamwork, communication, and 21st Century employability standards will be covered.

Job Site Component: New this year: Students will have the opportunity to go to their places of employment the last two periods of the day if they are in good academic and school policy standing! Ideally students will have opportunities to join their chosen area of career pursuit and gain experience within the chosen field. Students must hold a paid position, and average a *minimum of 10 hours per week*.

PRINCIPLES OF MARKETING

Grade: 9, 10, 11, 12 **Semesters:** 1 **Credits:** 1

Prerequisites: None

Course Description: This course focuses on the role of marketing in society, pricing concepts, and promotional activities within economic and business environments. Marketing also covers product development and distribution activities. Student generated projects provide “real-world” marketing applications and practices.

BUSINESS PRINCIPLES AND MANAGEMENT

Grade: 9, 10, 11, 12 **Semesters:** 1 **Credits:** 1

Prerequisites: None

Course Description: A basic understanding of business principles and management is needed by everyone who plans a career in business. This course will also aid young adults in becoming better consumers, as they explore the different types of business organizations and how they are owned, operated, and financed. This course is designed to help those who wish to: explore a possible career in business, enter business as beginning employees, have an opportunity to manage a business, and plan to own and operate their own business.

COLLEGE READINESS

Grade: 9, 10, 11, 12 **Semesters:** 1 **Credits:** 1

Prerequisites: None

Course Description: The focus of this course is on life after Clinton High School. Students will explore possible careers, majors, and post-secondary institutions. Information will be presented to the students in various forms including lecture, student lead research, presentations and guest presenters. Students will also learn about financial aid including the FAFSA, scholarships, etc.



FAMILY and COMMUNITY SERVICES COURSE OFFERINGS

Below is a listing of courses offered through the CTE Department-Family and Community Services. The graph indicates the course title, the grades that a student can take the offering, and the prerequisites for taking the class.

	Semesters	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Prerequisite Courses
Family Nutrition	1	X	X	X	X	
Foods I	1		X	X	X	
Sanitation & Safety*	1		X	X	X	Foods I
Fundamentals of Baking*	1		X	X	X	Foods I
Meal Management	1		X	X	X	Foods I
Culinary Practicum	1 (2 periods)			X	X	Sanitation & Safety, Foods I and Fundamentals of Baking or Meal Management
Culinary Practicum Assistant	1				X	Culinary Practicum, schedule compatible with Culinary Arts instructor, and interview with instructor prior to acceptance

*** Indicates Concurrent Enrollment with EICC**



FAMILY AND COMMUNITY SERVICES

FAMILY NUTRITION

Grade: 9, 10, 11, 12 **Semesters:** 1 **Credits:** 1
Prerequisite: None

Course Description: Family Nutrition stresses the importance of healthy eating and physical activity across the lifespan. Students will explore how decisions affect wellness at the various stages of the life cycle. Students will learn that the body's need for various nutrients may be greater at different stages of the life cycle. Health and wellness begins in the kitchen and healthy eating requires planning and preparation. We also will discuss safe food handling as well as healthy menu planning and food preparation techniques. Family Nutrition includes strategies for staying physically active through the lifespan along with covering the special needs of the human body. Students will learn how to recognize sources of stress and healthy strategies for reducing their impact on total wellness.

FOODS I

Grade: 10, 11, 12 **Semesters:** 1 **Credits:** 1
Prerequisite: None

Course Description: This course is designed to help students learn many basic kitchen skills; sanitation & safety, utensil & equipment usage, recipe reading, measuring, knife skills, and food prep techniques that involves the MyPlate Model. Students will also learn how to effectively collaborate with their classmates to develop a final product, which is emphasized in real world scenarios of the restaurant industry. Lastly, students will develop specific employability skills that restaurant industry employers look for in many individuals.

SANITATION & SAFETY: HCM 100, 2 Credits

COLLEGE CREDIT COURSE

Grade: 10, 11, 12 **Semesters:** 1 **Credits:** 1

CHS Prerequisite: Foods I

CCC Prerequisites: Application

Course Description: This course provides the student with a solid foundation in food service sanitation and safety. Students are required to pass the ServSafe Food Protection Manager Certification exam to continue in the Culinary Arts curriculum.

FUNDAMENTALS OF BAKING: HCM: 116, 3 Credits

COLLEGE CREDIT COURSE

Grade: 10, 11, 12 **Semesters:** 1 **Credits:** 1

CHS Prerequisites: Foods and Nutrition

CCC Prerequisites: Application

Course Description: This course is for a student with very little baking or pastry experience. Students will cover the basics of theory and preparation of baked items. Science and math will play a large role in this course. Items the students will prepare include yeast bread, cookies, creams, puddings, pie crusts and filling and quick breads. The focus of the course is on standard production methods for a successful product in small and large scale batches.

MEAL MANAGEMENT

Grade: 10, 11, 12 **Semesters:** 1 **Credits:** 1
Prerequisites: Foods & Nutrition

Course Description: This course is designed to further build upon skills, knowledge, and application of effective management in planning, preparing, and serving creative and nutritious products. The course will have a strong emphasis on proper safety and sanitation in the kitchen and workplace. Students will learn, explore and prepare the cuisine of a variety of regions and ethnicities.



CULINARY PRACTICUM

Grade: 11, 12

Semesters: 1 (2 periods) **Credits:** 2

Prerequisites: Sanitation & Safety, Foods and Nutrition and Fundamentals of Baking or Meal Management

Course Description: Culinary Practicum is the culminating foods course in the sequence of courses offered at CHS. This course is designed for a limited number of students who are seriously considering a career in the culinary arts. The students will be covering units in safety and sanitation, nutrition, culinary terminology, industry regulations and equipment, large group food preparation and service will be performed in the labs adjoining café at various times. Attendance and skill proficiency in Principles of Baking and/or Meal Management will be considered for placement for this course. The students will need to have earned proficient scores in all prerequisites and be a student in good standing. The students will need to demonstrate integrity and responsibility to work with the public and be a representative of CHS at all times.

CULINARY PRACTICUM ASSISTANT

Grade: 12

Semesters: 1 **Credits:** 1

Prerequisites: Culinary Practicum, schedule compatible with Culinary Arts instructor and an interview with the instructor prior to acceptance.

Course Description: Student will work independently under the direction and supervision of the culinary instructor.

*Assist in setting up and maintaining lab equipment

*Assist in prep work of culinary classes

*Organize market orders and lists of supplies/inventory

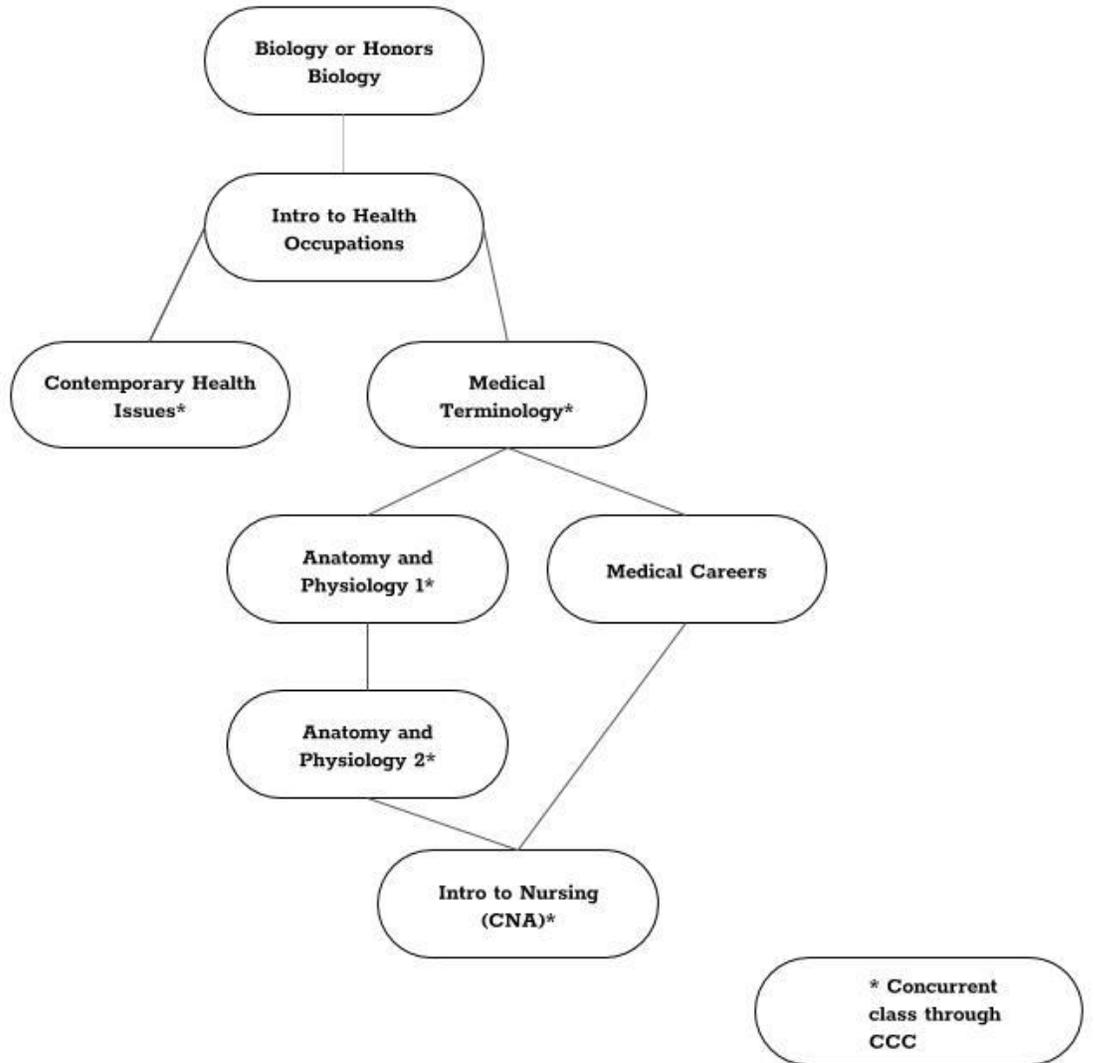
*Incorporate mathematical functions

*Work on individual portfolio

*Serve as a role model and representative for the program representing skills, integrity and work ethic



HEALTH SCIENCES



HEALTH SCIENCES COURSE OFFERINGS

Below is a listing of courses offered through the CTE Department-Health Sciences. The graph indicates the course title, the grades that a student can take the offering, and the prerequisites for taking the class.

	Semesters	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Prerequisite Courses
Introduction to Health Occupations	1		X	X	X	Honors Biology or Biology
Contemporary Health Issues*	1		X	X	X	Introduction to Health Occupations (recommended)
Medical Terminology*	1		X	X	X	Introduction to Health Occupations
Medical Careers	1 (2 periods)				X	Medical Terminology
Anatomy & Physiology I*	1 (2 periods)			X	X	Introduction to Health Occupations & Medical Terminology (recommended)
Anatomy & Physiology II*	1 (2 periods)			X	X	Anatomy & Physiology I
Introduction to Nursing	1 (2 periods)				X	Biology, Medical Terminology, successful completion of at least one more course in the health occupation pathway.

* Indicates Concurrent Enrollment with EICC



HEALTH SCIENCES

INTRODUCTION TO HEALTH OCCUPATIONS

Grade: 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Honors Biology or Biology

Course Description: This introductory course in the health sciences program & is an exploratory class to introduce students to a variety of health care careers. Students will learn foundational information about healthcare and provide a starting point for those possibly interest in pursuing a career in health care. Explore careers for both men and women, careers that require very little education after high school, or many years, local careers and international careers and everything in between. Listen to former students and community guest speakers who are active in a variety of careers. This is the first of many offered in health sciences and is a prerequisite for Medical Terminology and Medical Careers. It is also recommended for Intro to Nursing and college Anatomy and Physiology. Explore health care career options as early as your sophomore year!

CONTEMPORARY HEALTH ISSUES: HSC 106, 3 credits

COLLEGE CREDIT COURSE

Grades: 10, 11, 12

Semesters: 1 **Credits:** 1

CHS Prerequisites: Introduction to Health Occupations

CCC Prerequisites: Application

Course Description: Exploration of areas of human health. Topics include emotional health, chemical alteration of behavior, human sexuality, personal health care, disease, and health in society.

MEDICAL TERMINOLOGY: HSC 113, 2 credits

COLLEGE CREDIT COURSE

Grade: 10, 11, 12

Semesters: 1 **Credits:** 1

CHS Prerequisites: Introduction to Health Occupations

CCC Prerequisites: Application

Course Description: This course enables students to recognize and define medical terminology as well as identify medical words from Greek and Latin prefixes, suffixes, word roots and combining forms. Having a comprehensive understanding of medical terminology is beneficial to all students interested in a healthcare career and can assist with criminal justice, forensics and biomedical science careers. This rigorous fast-paced class is a prerequisite for those interested in taking Medical Careers or getting their CNA and is strongly recommended for college anatomy and physiology.

MEDICAL CAREERS

Grade: 12

Semesters: 1 (2 periods) **Credits:** 2

Prerequisites: Medical Terminology

Course Description: This advanced health science course prepares students for a career in health care by practicing the professional and clinical skills necessary in the healthcare profession. The first half examines the history of healthcare and growing trends and changes within the field. Students also learn employability skills (resume building, interviewing, etc.) and basic first aid and patient contact skills (health history, vitals, CPR, etc.). The second half, the students observe, experience and experiment with concepts learned through job shadowing and post-secondary explorations, tours, and guest speakers. Clinical opportunities will vary, however each student will gain knowledge in an array of positions providing an enriching, real-life experience. *Due to increased responsibility and professionalism - students should demonstrate good attendance and academic conduct.*



ANATOMY & PHYSIOLOGY I: BIO 168, 4 credits

COLLEGE CREDIT COURSE

Grades: 11, 12 **Semesters:** 1 (2 periods) **Credits:** 2

Prerequisites: Honors Biology or Biology, strongly recommended Medical Terminology.

Course Description: This course is a study of the structure and function of the human body. The study begins at the cellular level and proceeds through selected organ systems including integumentary, skeletal, muscular, nervous, and endocrine. This course meets the prerequisite need for many health science occupations- and is intended for health science students and those exploring post-secondary options in sciences.

ANATOMY & PHYSIOLOGY II: BIO 173, 4 credits

COLLEGE CREDIT COURSE

Grades: 11, 12 **Semesters:** 1 (2 periods) **Credits:** 2

Prerequisites: Anatomy & Physiology I (BIO 168)

Course Description: The second course in a two-semester sequence. The content includes the completion of the study of the organ systems: cardiovascular, lymphatic/ immune, respiratory, digestive / metabolism, urinary, and reproductive. This course completes the prerequisite need for many health science occupations and is intended for health science students and those exploring post-secondary options in sciences.

INTRODUCTION TO NURSING

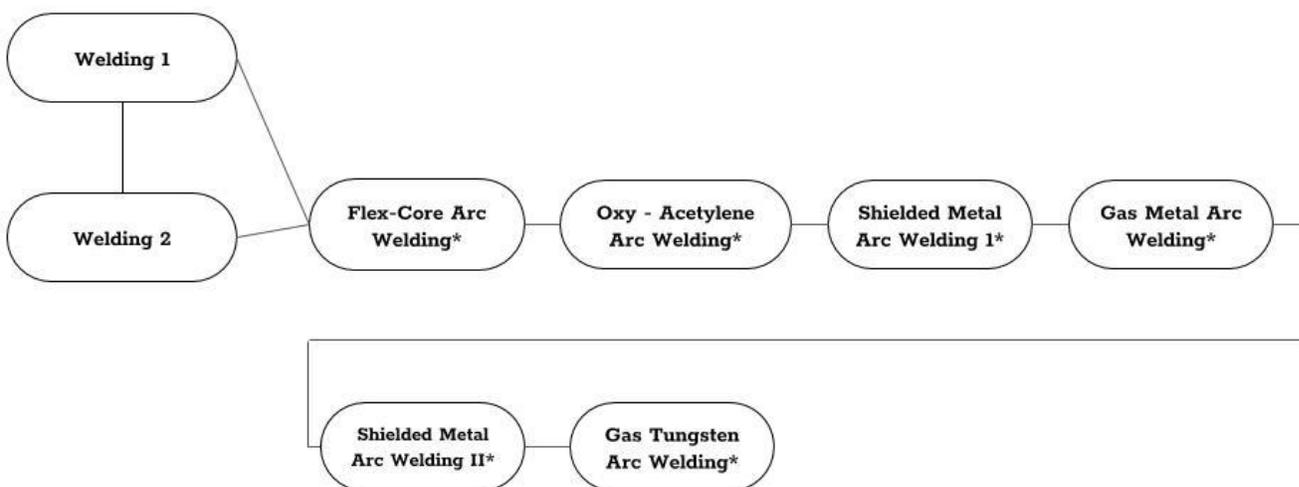
Grades: 11, 12 **Semesters:** 1 (2 periods) **Credits:** 2

Prerequisites: Biology, Medical Terminology, and successful completion of at least one more course in the health occupation pathway.

Course Description: This advanced course is a nurse's aide course offered through the Eastern Iowa Community College District. Students will be trained in the fundamentals of direct patient care to become a nurse aide. Basic skills include: comfort, safety, hygiene, mental health, and social needs.



WELDING TECHNOLOGY



Students who complete Plant Safety through Gas Tungsten Arc Welding will have completed their basic Welding Certificate through Eastern Iowa Community College

* Concurrent class through CCC



WELDING TECHNOLOGY COURSE OFFERINGS

Below is a listing of courses offered through the CTE Department-Welding Technology. The graph indicates the course title, the grades that a student can take the offering, and the prerequisites for taking the class.

	Semesters	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Prerequisite Courses
WELDING TECHNOLOGY						
Welding I	1	X	X	X	X	
Welding II	1	X	X	X	X	Welding I
Shielded Metal Arc Welding I*	1		X	X	X	Welding I
Shielded Metal Arc Welding II*	1		X	X	X	Shielded Metal Arc Welding I
Gas Metal Arc Welding*	1		X	X	X	Shielded Metal Arc Welding I
Flux Core Arc Welding*	1		X	X	X	Welding I
Gas Tungsten Arc Welding*	1		X	X	X	Gas Metal Arc Welding
Oxy Acetylene Arc Welding*	1		X	X	X	Welding I
Welding Apprenticeship	1				X	Instructor Approval

* Indicates Concurrent Enrollment with EICC

WELDING TECHNOLOGY

WELDING 1

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: None

Course Description: The purpose of this welding course is to provide prospective tradesmen with essential 21st century work skills vital to the welding Industry. Emphasis is placed on a wide range of cutting process including Shear, Band saw, Cold Saw, Oxy/Fuel, and Plasma. Welding techniques in the flat position utilizing Shielded Metal-Arc Welding (SMAW) and Gas Metal Arc Welding (GMAW).

WELDING 2

Grade: 9, 10, 11, 12

Semesters: 1 **Credits:** 1

Prerequisites: Welding 1

Course Description: The purpose of this welding course is to provide prospective tradesmen with essential 21st century work skills vital to the welding Industry. Emphasis is placed on a wide range of cutting process including

CHS Royal Code: Do Right. Be Noble. Choose Excellence: Rise Above! 42



Shear, Band saw, Cold Saw, Oxy/Fuel, and Plasma. Welding techniques in the flat position utilizing Shielded Metal-Arc Welding (SMAW) and Gas Metal Arc Welding (GMAW).

SHIELDED METAL ARC WELDING I: WEL 274, 3 credits

COLLEGE CREDIT COURSE

Grade: 9, 10, 11, 12

Semesters: 1 (+Flex) **Credits:** 1

CHS Prerequisites: Welding 1

CCC Prerequisite: Plant Safety: MFG 186

Course Description: This course focuses on safety, amperage settings, polarity and the proper selection of electrodes for the shielded metal arc welding process. Students will perform American Welding Society compliant welds on carbon steel, using visual and destructive methods for determining weld quality. This course aligns to SENSE (Schools Excelling through National Skills Education) Level 1.

SHIELDED METAL ARC WELDING II: WEL 275, 3 credits

COLLEGE CREDIT COURSE

Grade: 10, 11, 12

Semesters: 1 (+Flex) **Credits:** 1

CHS Prerequisites: Shielded Metal Arc Welding I: WEL 274

CCC Prerequisite: Shielded Metal Arc Welding I: WEL 274

Course Description: This course focuses on safety, amperage settings, polarity and the proper selection of electrodes for the shielded metal arc welding process. Students will perform American Welding Society compliant welds on carbon steel, using visual and destructive methods for determining weld quality. This course aligns to SENSE (Schools Excelling through National Skills Education) Level 1.

GAS METAL ARC WELDING: WEL 256, 4.5 credits

COLLEGE CREDIT COURSE

Grade: 9, 10, 11, 12

Semesters: 1 (2 periods) **Credits:** 2

CHS Prerequisites: Shielded Metal Arc Welding I: WEL:274

CCC Prerequisite: Plant Safety: MFG 186

Course Description: This course covers safety and Gas Metal Arc Welding (GMAW) techniques in flat, horizontal, vertical and overhead positions. A variety of hands-on projects/experiments integrates and reinforces theoretical concepts in the laboratory setting.

FLUX CORE ARC WELDING: WEL:257, 2.5 credits

Grade: 10, 11, 12

Semesters: 1 (+Flex) **Credits:** 1

CHS Prerequisites: Plant Safety: MFG 186

CCC Prerequisite: Plant Safety: MFG 186

Course Description: This course provides training to develop the manual skills on carbon steels using small diameter and large diameter flux cored electrodes (with and without shielding gas) in all positions on fillet and groove welds.

GAS TUNGSTEN ARC WELDING: WEL:192, 4 credits

Grade: 10, 11, 12

Semesters: 1 (2 periods) **Credits:** 2

CHS Prerequisites: Gas Metal Arc Welding

CCC Prerequisite: Plant Safety: MFG 186

Course Description: This course focuses on gas tungsten arc welding (TIG) and other related processes. Topics such as process variation, welding in various positions, principle of operation, shielding gases, and filler rods will be studied. Safety and practical application of these welding processes will be stressed.



**OXY-ACETYLENE ARC WELDING: WEL:259, 1 credit
COLLEGE CREDIT COURSE**

Grade: 9, 10, 11, 12

Semesters: 1 (+Flex) **Credits:** 1

CHS Prerequisites: Welding 1

CCC Prerequisite: MFG:186

Course Description: This course uses a variety of hands-on projects/ experiments to integrate and reinforce theoretical concepts of oxyacetylene welding in the laboratory setting

WELDING APPRENTICESHIP

Grade: 12

Semesters: 2 **Credits:** 2

Prerequisites: Instructor Approval

Course Description: In this course you will help setup lab demonstrations and assist Welding students with cutting and welding processes.

