

A Message from the Director

Welcome to the Gary Area Career Center!

The Gary Area Career Center (GACC) is pleased to provide the 2021- 2022 CTE Course Catalog. This catalog is the student stakeholder’s snapshot of our diverse course offerings and innovative programs designed to provide support to each student’s post-secondary career goals. Through our partnerships with Lake County’s Ivy Tech Community College, Vincennes University, and Indiana University

Northwest Career Center, GACC shows dedication to providing high-quality education and skill training to our high school and adult students. Each program is aligned to the state of Indiana’s state standards, the U.S. Department of Labor’s 16 Career Clusters, and Next Level Program of Study. In addition, some programs have been identified as being both “high wage, high demand”.



The Gary Area Career Center is the oldest Career and Technical Education facility in Northwest Indiana. Over the years we have evolved into a multifaceted and diverse program committed to creating post-secondary employment and vocational training opportunities for all students and adult learners throughout the region. Our highly-qualified, industry-certified teaching staff provides each student with knowledge acquired from their years of work experience in the industry. In addition, our teaching staff

continues to stay current in the industry through continued education and participation in industry-related conferences/training.

The GCSC staff, district administrators, and Emergency Manager are all excited about the present direction of the Career Center. In the 2021-2022 school year, we will be implementing the Next Level Program of Study course guide to give students the opportunity for career exploration to make good post-secondary career choices.

Come visit us here at the Gary Area Career Center. On your road to success, allow us the opportunity to support your post-secondary education, employment, and vocational aspirations.

Welcome to the new Gary Area Career Center!



Shelly Martin, M.Ed, ABD
Career & Technical Education Director/Principal

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Agricultural

5056 Introduction to Agriculture, Food, and Natural Resources (INT AGFNR)

Introduction to Agriculture, Food and Natural Resources is a two semester course that is highly recommended as a prerequisite to and as a foundation for all other agricultural classes. Through hands-on learning activities, students are encouraged to investigate areas of agriculture. Students are introduced to the following areas of agriculture: animal science, plant and soil science, food science, horticultural science, agricultural business management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project-based approach is used along with team building to enhance the effectiveness of the student learning activities.

Recommended Grade: 8th

1 credit per semester, 2 credits maximum

Counts as a directed elective or elective for all diplomas

7117 Principles of Agriculture (Prin AG)

Prerequisites: None

Grade(s): 8, 9, 10

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding and the role of agriculture in the United States and globally. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, as well as careers.

Counts as a directed elective or elective credits for all diplomas

Automotive Technology

7213 Principles of Automotive Services (PRIN AUTO SER)

Prerequisites: none

Grades: 10, 11

This course gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics.

Counts as a directed elective or elective for all diplomas

7205 Automotive Brakes and Electrical (AUTO BRK ELE)

Required Prerequisites: Principles of Automotive Services

Grade: 11, 12

This course gives students an in-depth study of vehicle electrical systems. Students will study the fundamentals of electricity and automotive electronics in various automotive systems.

Additionally it teaches theory, service and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems.

Counts as a directed elective or elective for all diplomas

Aviation

7214 Principles of Aviation Management (PRIN AVI MAN)

Prerequisites: none

Grade: 10, 11

This course provides the student the opportunity to develop an understanding of various aspects of the aviation industry to include general regulations and laws associated with the field. Included is an overview of the aviation field and all employment opportunities. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills. Students will also learn of the departments associated with an airport and their impact on the industry as a whole.

Counts as a directed elective or elective for all diplomas

5524 Aviation Flight (AV FLIGHT)

Prerequisites: Principles of Aviation Management

Grade: 11, 12

Aviation Flight familiarizes students with Aviation Technology and provides a historic overview of the field. This course also provides an overview of the careers and employment opportunities in the field of aviation. It prepares new student pilots for the maneuvers that are required to be performed during the Practical Test portion of the Private CheckRide. In addition to these maneuvers, the concepts of basic aerodynamics, aircraft systems, instrument operation, weight and balance, flight physiology and a basic working knowledge of aircraft power plants and their construction will be covered.

Counts as a directed elective or elective for all diplomas

5528 Aviation Operations (AV OPS)

Required Prerequisites: Aviation Flight

Grade: 11, 12

Aviation Operations provides students with a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology; a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management, and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course is designed to enhance the students' knowledge of the pertinent areas of aircraft basic science that comprise the scientific fundamentals applied in all areas of the aviation industry. The fundamental areas of the federal aviation regulations, pertinent to aviation operations are also introduced in this course.

Counts as a directed elective or elective for all diplomas

7217 Private Pilot Theory (PVT PLT THRY)

Prerequisites: Principles of Aviation Management, Aviation Flight, Aviation Operations
Recommended Grade: 11, 12

The student will receive ground school knowledge required for certification as a private pilot with an airplane single engine land rating. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills.

Counts as a directed elective or elective for all diplomas

Business

7152 Principles of Business (PRIN BUS)

Prerequisites: none
Grades: Grade: 9, 10, 11
Offered at West Side Only

Principles of Business examines American business including business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of American business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision-making skills using Microsoft Word, Excel, Access, and PowerPoint.

Counts as a directed elective or elective for all diplomas

5914 Marketing Fundamentals (PRN MRKT)

Prerequisites: none
Grade: 11, 12

Marketing Fundamentals provides a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem-solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management.

Counts as a directed elective or elective for all diplomas

7154 Principles of Entrepreneurship (PRIN ENTR)

Prerequisites: none
Grade: 9, 10, 11
Offered at West Side Only

Principles of Entrepreneurship focuses on the characteristics of a successful entrepreneur and the creation of a business concept. The course helps students explore the answers to questions about what is on the entrepreneur journey before the idea is launched in the world. Is your idea worth pursuing? What are the risks in starting a business? The course helps students apply what they have learned from the content when they write a Personal Vision Statement, a

Business Concept Statement, and an Elevator Pitch.

Counts as a directed elective or elective for all diplomas

7148 *Entrepreneurial Marketing and Management (ENT MAR MAN)*

Required Prerequisites: Principles of Entrepreneurship

Recommended Grade: 12

Entrepreneurial Marketing and Management is targeted to students interested in creating and growing their own businesses. The course will focus on key marketing strategies particularly relevant for new ventures. Students will apply marketing concepts to entrepreneurial company challenges, which include creating and nurturing relationships with new customers, suppliers, distributors, employees and investors; and understand the special challenges and opportunities involved in developing marketing strategies "from the ground up."

Counts as a directed elective or elective for all diplomas

Computer Science

7183 *Principles of Computers and Informatics (PRIN COMP INFO)*

Prerequisites: none

Grade: 9, 10, 11

Offered at West Side Only

Principles of Computers and Informatics introduces students to terminology, concepts, theory and fundamental skills used to implement information systems. Topics include the history and trends of computing, operating systems, database technology, security, cloud implementation and other concepts associated with applying the principles of good information management to the organization. Additionally, students will be introduced to algorithms, logic development and flowcharting as tools used to document computer logic through the use of basic scripting and simple programming code.

Counts as a directed elective or elective for all diplomas

Construction Trades

7130 *Principles of Construction Trades (PRIN CON TR)*

2 semesters

Prerequisites: none

Grade: 10, 11

Principles of Construction Trades covers the NCCER Core Curriculum and is a prerequisite to most other construction courses. Its modules cover topics such as basic safety, communication skills, and introduction to construction drawings; all basic skills needed to continue education in the construction program.

Counts as a directed elective or elective for all diplomas

7123 *Construction Trades: General Carpentry (CON TRD GC)*

2 semesters

Required Prerequisites: Principles of Construction Trades
Recommended Grade: 11, 12

Construction Trades: General Carpentry covers the NCCER Carpentry Level 1. Its modules cover topics such as building materials, fasteners, adhesives, hand and power tools, introduction to construction drawings, specifications, layout, floor systems, wall systems, ceiling joist and roof framing, basic stair layout, and introduction to building envelope systems.

Counts as a directed elective or elective for all diplomas

7122 Construction Trades: Framing and Finishing (CON TRD FR FIN) 2 Semester

Required Prerequisites: Principles of Construction Trades; and Construction Trades:
General Carpentry
Grade: 11, 12

Construction Trades: Framing and Finishing covers NCCER Carpentry Framing and Finishing Level 2. Its modules cover topics such as commercial drawings, roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation.

Counts as a directed elective or elective for all diplomas

7124 Electrical Fundamentals (ELEC FUN) 2 Semester

Required Prerequisites: Principles of Construction Trades
Recommended Grade: 10, 11, 12

This course covers NCCER Electrical Level 1. Its modules cover topics such as orientation to the electrical trade, electrical safety, introduction to electrical circuits, electrical theory, introduction to the National Electrical Code, device boxes, hand bending, raceways and fittings, conductors and cables, basic electrical construction drawings, residential electrical services, and electrical test equipment. The NCCER Electrical Level 1 certificate and wallet card will also be awarded upon successful completion of this course.

Counts as a directed elective or elective for all diplomas

7129 Plumbing and Pipefitting Fundamentals (PLB PIPE FUN) 2 Semesters

Required Prerequisites: Principles of Construction Trades
Recommended Grade: 11, 12

Plumbing and Pipefitting Fundamentals will build on the knowledge and skills developed in the principles course. Students will gain a better understanding of a variety of plumbing materials and fittings. As well as focus on common plumbing installations including piping, drains, fixtures and valves.

Counts as a directed elective or elective for all diplomas

Cosmetology

7176 Principles of Human Services (PRIN HUM SERV)

2 semesters

Prerequisites: none

Recommended Grade: 9, 10, 11

Principles of Human Services explores the history of human services, career opportunities, and the role of the human service worker. Focuses on target populations and community agencies designed to meet the needs of various populations. Course includes a required job shadowing project in a Human Services setting. This course will also encourage cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

Counts as a directed elective or elective for all diplomas

5802 Cosmetology/ Barbering I (CSMTLGY I)

2 semester

Prerequisites: Principles of Human Services

Grade: 10, 11, 12

Cosmetology I offers an introduction to cosmetology with an emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, bacteriology, and sanitation. In the second semester greater emphasis is placed on the application and development of these skills. The State of Indiana requires a total of 1500 hours of instruction for licensure.

Counts as directed elective or elective for all diplomas

5806 Cosmetology/ Barbering I (CSMTLGY II)

2 Semester

Prerequisites: Cosmetology

Grade: 12

Cosmetology II builds on concepts learned in Cosmetology I with an emphasis on the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology, professionalism, and salon management in relation to cosmetology.

Counts as a directed elective or elective for all diplomas

Criminal Justice

7193 Principles of Criminal Justice (PRIN CR JUST)

2 semesters

Prerequisites: none

Recommended Grade: 9, 10, 11

Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system. It will critically examine the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives.

Analyzes the research support for such theories and perspectives, and the connections between theory and criminal justice system practice within all the major components of the criminal justice system. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis.

Counts as a directed elective or elective for all diplomas

7191 Law Enforcement and Cultural Awareness (LAW ENF CLT AWR) 2 semesters

Required Prerequisites: Principles of Criminal Justice
Grade: 11, 12

Law Enforcement and Cultural Awareness introduces fundamental law enforcement operations and organization. Includes the evolution of law enforcement at federal, state, and local levels. Emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime.

Counts as a directed elective or elective for all diplomas

7188 Courts and Corrections (CRT CORR) 2 Semester

Required Prerequisites: Principles of Criminal Justice; and Law Enforcement & Awareness
Grade: 11, 12

Courts and Corrections introduces topics related to the adjudication process in criminal cases, including arraignments and preliminary hearings, suppression hearings, trials, sentencing, juvenile court, and probation and parole. Reviews the role of criminal justice personnel in court processes. This course also examines the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed.

Counts as a directed elective or elective for all diplomas

Culinary Arts & Hospitality

7173 Principles of Hospitality (PRIN HOSP) 2 Semesters

Prerequisites: none
Grade: 9, 10, 11

Principles of Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. Introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, this course will help students learn basic principles of sanitation and safety in order to maintain a safe and healthy food service environment. It presents laws and regulations related to safety, fire, and sanitation and how to adhere to them in the food service operation.

Counts as a directed elective or elective for all diplomas

7171 Food Theory and Nutrition (FD THRY NUT)**2 Semesters**

Required Prerequisites: Principles of Hospitality

Grades: 10, 11, 12

Food Theory & Nutrition students will learn the fundamentals of food preparation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment. This course also provides a background and history of the hospitality industry and introduces the student to the broad spectrum of hospitality/food service organizations and career opportunities. Students will be familiarized with the organizational structure and basic functions of departments. Additionally, this course introduces the characteristics, functions and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation.

Counts as a directed elective or elective for all diplomas

7169 Culinary Arts (CUL ARTS)**2 Semesters**

Required Prerequisites: Principles of Hospitality; and Food Theory and Nutrition

Recommended Grade: 11, 12

Culinary Arts is designed to teach the necessary skills for proper recruiting, staffing, training, and management of employees at various levels. The course will help prepare the student for the transition from employee to supervisor. It will help the student evaluate styles of leadership, and develop skills in human relations and personnel management. This course will also presents fundamentals of baking science, terminology, ingredients, weights and measures, and proper use and care of equipment. Students will produce yeast goods, pies, cakes, cookies, and quick breads.

Counts as a directed elective or elective for all diplomas

Early Childhood Education

7160 Principles of Early Childhood Education (PRIN EAR CH ED)**2 Semesters**

Prerequisites: none

Grade: 9, 10, 11

This course provides students with an overview of skills and strategies necessary to successfully complete a certificate. Additionally, it provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula and services available to young children. This course also examines basic principles of child development, Developmentally Appropriate Practices (DAP), importance of family, licensing, and elements of quality care of young children with an emphasis on the learning environment related to health, safety, and nutrition. Students may be required to complete observations and field experiences with children as related to this course.

Counts as a directed elective or elective for all diplomas

7158 Early Childhood Education Curriculum (EAR CHD ED CUR) 2 Semesters

Required Prerequisites: Principles of Early Childhood
Grade: 10, 11, 12

Early Childhood Education Curriculum examines developmentally appropriate environments and activities in various childcare settings while exploring the varying developmental levels and cultural backgrounds of children. Students may be required to complete observations and field experiences with children as related to this course.

Counts as a directed elective or elective for all diploma

5412 Early Childhood Education I (ECE 1) 2 semesters

Prerequisites: Principles of Early Childhood; Early Childhood Education Curriculum
Grades: 11, 12

Early Childhood Education prepares students for employment in early childhood education and related careers that involve working with children from birth to 8 years (3rd grade) and provides the foundations for study in higher education that leads to early childhood education and other child-related careers. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes are recommended in order to integrate the study of suggested topics. Major course topics include: career paths in early childhood education; promoting child development and learning; building family and community relationships; observing, documenting, and assessing to support young children and families; using developmentally effective approaches; using content knowledge to build meaningful curriculum, and becoming an early childhood education professional. The course provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula, and services available to young children. Students examine basic principles of child development, importance of family, licensing, and elements of quality care of young children. The course addresses planning and guiding developmentally appropriate activities for young children in various childcare settings; developmentally appropriate practices of guidance and discipline; application of basic health, safety, and nutrition principles when working with children; overview of management and operation of licensed child care facilities or educational settings; child care regulations and licensing requirements; and employability skills. Intensive experiences in one or more early childhood settings, resumes, and career portfolios are required components. A standards-based plan for each student guides the laboratory/field experiences. Students are monitored in their laboratory/field experiences by the Early Childhood Education teacher. Student laboratory/field experiences may be either school- based or "on-the-job" in community-based early childhood education centers or in a combination of the two. Dual credit agreements with post-secondary programs are encouraged.

Counts as a directed elective or elective for all diploma

Graphic Design

7140 Principles of Visual Communication (PRIN VIS COMMS) 2 Semesters

Prerequisites: none
Grade: 10, 11

This course introduces students to fundamental design theory and fundamental computer graphics in visual communications. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving, critical peer evaluation, and presentation skills. This course will include basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are further developed through work with vector-based, raster-based, and page layout software

used in the professional visual communications industry.

Counts as a directed elective or elective for all diplomas

5550 Graphic Design and Layout (GRAPH DES LT)

2 Semesters

Required Prerequisites: NLPS- Principles of Visual Communication
Grade: 10, 11, 12

Graphic Design and Layout includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design commercial products that impart information and ideas. Advanced instruction might also include experiences in various printing processes as well as activities in designing product packaging and commercial displays or exhibits.

Counts as a directed elective or elective for all diplomas

7134 Advanced Graphic Design (ADV GR DES)

2 Semesters

Required Prerequisites: Principles of Visual Communication; and Graphic Design and Layout
Grade: 11, 12

This course addresses the issues pertinent to the proper and creative use of type and the enhancement of communication. Covers the history of type, typographic terminology, design, attention to aesthetics, common sense, and how we read. It introduces students to a full range of image input technology and manipulation including conventional photography, digital imaging, and computer scanners. Students will learn to communicate concepts and ideas through various imaging devices. Projects emphasize an appreciation of the practical use of type, explore composition, and foster creativity.

Counts as a directed elective or elective for all diplomas

Health Sciences

7168 Principles of Healthcare (PRIN HLCR)

2 Semesters

Prerequisites: none
Grade: 9, 10, 11

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an Introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student's career objectives.

Counts as a directed elective or elective for all diplomas

5274 Medical Terminology (MED TERMS)

2 Semesters

Prerequisites: Principles of Healthcare

Grade: 11, 12

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

Counts as a directed elective or elective for all diplomas

7166 Healthcare Specialist: CNA (HC SPEC CAN)

2 Semesters

Required Prerequisites: Principles of Healthcare

Grade: 11, 12

The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities.

Counts as a directed elective or elective for all diplomas

7165 Emergency Medical Tech (EMT)

2 Semesters

Required Prerequisites: Principles of Healthcare; and Medical Terminology

Grade: 12

This course is based on the training program developed by the Department of Transportation and the Emergency Medical Services Commission of Indiana. It covers theories, techniques and operational aspects of pre-hospital emergency care within the scope and responsibility of the emergency medical technician (EMT). It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Successful completion of the course meets national requirements to test for certification as an NREMT.

Counts as a directed elective or elective for all diplomas

Public Safety

7195 Principles of Public Safety and Hazmat Awareness (PRIN PS HAZ AWR)

2 Semesters

Prerequisites: none

Recommended Grade: 10, 11

Principles of Public Safety provides the student with an overview of the requirements necessary to complete a degree in Public Safety; including an overview of faculty expectations and

support that is offered to students in this program. Students are introduced to the degree requirements and are guided through the completion of an Individual Academic Plan. Students are introduced to Student Retention Services, Library System and Research, Writing Tutorial Services, and Career Services for assistance in successfully completing projects throughout the course and degree program. Areas of interest include Fire Science, Homeland Security, Environmental Health and Safety, and Emergency Medical Services. In addition to these competencies students will also cover an array of topics under hazmat awareness and operations including: hazardous materials definitions; regulations; statistics; properties and hazards; hazardous materials identification; incident management priorities; strategic goals and tactical objectives; personal protective equipment; contamination and decontamination; incident- specific strategies and tactics; terrorists and other criminal activities.

Counts as a directed elective or elective for all diplomas

7189 Fire Fighting Fundamentals (FIRE FGHT FUN)

2 Semesters

Required Prerequisites: Principles of Public Safety and Hazmat Awareness

Recommended Grade: 11, 12

Fire Fighting Fundamentals is for those students who are seeking certification as a firefighter. This course will introduce the student to NFPA 1001 which serves as the standard of measurement for all firefighters in North America. Introduced students to fire service terminology, history and basic firefighting skills needed to complete and pass all requirements designed by the Department of Homeland Security for Basic, Mandatory and Fire Fighter I. Furthermore, students will study fire protection systems, firefighter safety and survival. Students will also learn what fire is, the chemical hazards of combustion and related byproducts of fire. Fire department organization, administration, operations, and basic strategies and tactics will be covered.

Counts as a directed elective or elective for all diplomas

7186 Advanced Fire Fighting (ADV FIRE FGHT)

2 Semesters

Required Prerequisites: Principles of Public Safety and Hazmat Awareness

Grade: 11, 12

Advanced Fire Fighting builds on skills learned in Fire Fighting Fundamentals. The Fire and Rescue curriculum may include five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, and (5) Hazardous Materials Operations. An additional two industry certifications may be earned by adding (6) First Responder, and (7) Emergency Medical Technician-Basic to the curriculum.

Counts as a directed elective or elective for all diplomas

Radio & Television

5986 RADIO & TELEVISION I

2 semesters

Prerequisites: Principles of Radio and TV

Grade(s): 11, 12

Provides a framework for the practical applications required to operate in front of the camera/mic and in the production field of TV and radio. Students will learn how to operate all TV and radio studio equipment

and perform as talent in both mediums. Students will learn the basic operations of a radio station including programming; writing; recording, interviewing, editing, and announcing skills. Students will learn about TV production including direction, camera techniques, lighting and sound techniques, stand up talent, and editing techniques. The emphasis will be on producing short video segments using TV field production techniques and design principles. Students will research, conduct interviews, write scripts, provide talent, and edit news segments. Students will also listen to and analyze professional programs, learn about the different types of TV & radio programming, the evolution of TV & radio, and challenges of working in the profession. This course is designed primarily for 9th - 12th grade students as a means to provide broadcasting skills and serves as a prerequisite to the DC Radio & TV II course.

Counts as a directed elective or elective for all diplomas

7139 *Principles of Radio and TV (PRIN RAD TV)*

2 Semesters

Prerequisite: None

Grade: 9, 10, 11

Principles of Radio & TV provides an introduction to the fundamentals of digital production. Students will develop basic skills in digital production techniques for audio, video, studio, and field production.

Counts as a directed elective or elective for all diplomas

7135 Audio and Video Production (AUD VID PROD)

2 Semester

Required Prerequisite: Principles of Radio and TV

Grade: 11, 12

Audio and Video Production provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations.

Counts as a directed elective or elective for all diplomas

7137 *Mass Media Performance (MASS MED PERF)*

2 Semesters

Required Prerequisites: Principles of Radio & TV

Recommended Grade: 11, 12

Students will study the theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style.

Counts as a directed elective or elective for all diplomas

Advance Manufacturing

7110 Principles of Welding Technology (PRIN WEL TCH)

2 Semesters

Prerequisites: none

Grade: 10, 11

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.

Counts as a directed elective or elective for all diplomas

7111 Shielded Metal Arc Welding (SHLD MAW)

2 Semesters

Required Prerequisites: Principles of Welding Technology

Recommended Grade: 11, 12

This course involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards.

Counts as a directed elective or elective for all diplomas

7101 Gas Welding Processes (GAS WEL PRC)

2 Semesters

Required Prerequisites: Principles of Welding Technology

Recommended Grade: 11, 12

A course designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, flux core, and aluminum wire. Test plates will be made for progress evaluation. Schools will have the option to introduce students to both MIG and TIG welding rather than focusing solely on MIG welding.

Counts as a directed elective or elective for all diplomas

Work-based learning (Work Study)

5974 Work-based Learning Capstone (WBL)

2 Semesters

Required Prerequisites: Complete at least one advanced career and technical education course from a program or program of study. Student's worksite placement must align to the student Pathway. Grade: 12

Work-based Learning Capstone is a stand-alone course that prepares students for college and career. Work-Based Learning means sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, first hand engagement with the tasks required of a given career field, that are aligned to curriculum and instruction. Work-based Learning Capstone experiences occur in workplaces and involve an employer assigning a student meaningful job tasks to develop his or her skills, knowledge, and readiness for work. A clear partnership agreement and training plan is developed by the student, teacher, and workplace mentor/supervisor to guide the student's work-based experiences and assist in evaluating achievement and performance.

Related Instruction, shall be organized and planned around the activities associated with the student's individual job and career objectives in a pathway; and shall be taught during the same semester the student is participating in the work-based experience. For a student to become employable, the related instruction should cover: (a) employability skills, and (b) specific occupational competencies.

A minimum of 85 hours of workplace and classroom activities are required for one credit; 170 hours are required for the two credits. Of the 85 or 170 hours, 18 to 36 hours (at least 1 hour a week or the equivalent over a semester or year) must be spent in related classroom instruction.

Counts as a directed elective or elective for all diplomas

Procedures for students to attend the Gary Area Career Center 2021-22 will be as follows:

1. Students must complete an electronic application by the following deadlines:
 - a. Fall~ April 2021
 - b. Spring~ November 2021(Students will not be able to receive dual credit)
(See Appendix B)
2. Each application will be evaluated by the administrative team at the Gary Area Career Center. Acceptance/Denial letters will be sent electronically to each student and counselor.
3. Rosters will be released to the guidance counselors by the following deadlines:
 - a. Fall~ June 2021
 - b. Spring~ December 2021
4. Students will be enrolled in Infinite Campus for the Gary Area Career Center on June 1st
5. Students must attend a mandatory orientation before attending the Gary Area Career Center in August.

Special Admission

1. Seniors will not be allowed to enroll in a first-year class until August after enrollment has closed for the Juniors.
2. Students enrolling in the second semester will not be able to receive dual credit for that semester or subsequent semesters.

Student procedures for entering the Career Center:

Complete the online application by the deadline:

<https://forms.gle/TrpdZVCB3KtYED7e6>

If you require any additional information, please feel free to contact the CTE Coordinator,

Dameeka Ware at dhightower@garyschools.org



Appendix