



GENESEE CAREER INSTITUTE

*Explore. Experience. Excel.*

# PROGRAM GUIDE

2017-2018



## GENESEE CAREER INSTITUTE

*Explore. Experience. Excel.*

# Welcome

### EXPLORE. EXPERIENCE. EXCEL. at Genesee Career Institute!

- Courses for Genesee County students in grades 11 and 12.
- College credit may be earned in most courses.
- State and national certification testing available in many programs.
- Job placement assistance available to students and graduates.

For more program information, visit  
[www.geneseecareer institute.org](http://www.geneseecareer institute.org)

### AGRISCIENCE

#### *Agriculture, Food, and Natural Resources*

- Work with professionals and explore career areas such as plant science, animal production, soil and water conservation and urban and rural agriculture
- Engage in hands-on activities using technology in animal, plant, and environmental sciences to solve real-world problems
- Visit local agricultural businesses, and become a leader by participating in FFA at the local, state, and national levels
- Get a head-start by earning college credit through MSU, Baker College, and other colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT*

#### *Veterinary Medicine*

- Handle and care for a wide variety of live animals from small to large, building the human animal bond
- Develop knowledge of animal medical terminology, anatomy, infections, ethics, safety, and employability
- Perform activities essential for the operation and management of a typical veterinary clinic
- Visit a large zoo and participate in FFA local, state, and national conventions and competitions
- Get a head-start by earning college credit and earn industry recognized certifications

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### ARCHITECTURE & CONSTRUCTION

#### *Construction Trades*

- Operate power tools and equipment while building a single family home for Habitat for Humanity
- Work safely and efficiently alongside licensed builders, read blue prints, estimate materials and costs
- Attend field trips related to carpentry, and travel to regional, state, and national Skills USA competitions
- Qualify for a paid apprenticeship through the Department of Labor; get a head-start by earning college credit
- Develop marketable skills for immediate employment with contractors, and earn industry recognized certifications

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#### *Electrical Wiring*

- Use professional tools and technology to install electrical wire, switches, and fixtures found in homes and businesses
- Read electrical plans, bend steel conduit, use national codes to plan layouts of power outlets, lights, and controls
- Attend field trips related to electricians, and travel to regional, state, and national Skills USA competitions
- Qualify for a paid apprenticeship through the Department of Labor; get a head-start by earning college credit
- Develop skills for immediate employment with contractors and energy companies, and earn industry certifications

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### ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS

#### *Digital Media Arts (DMA)*

- Operate high-tech video and audio equipment in a modern production studio
- Work alongside a professional news director to edit raw footage using industry software and top quality computers
- Create story boards, scripts, and production schedules for team projects and public service announcements
- Visit a TV news studio and related college programs; travel to compete in state and national student organizations
- Get a head-start by earning college credit; develop marketable skills for immediate employment

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES IN SOUND AND FILM PRODUCTION*

*Transportation  
to and from  
student's high  
school is  
provided.*

## Visual Design Communications (VDC)

- Hone your artistic talents in drawing, photography, graphic design, and animation
- Design, express, and interpret ideas to solve client-driven problems in a graphics production center
- Visit businesses and related college programs; participate in student organizations and travel to competitions
- Get a head-start by earning college credit through Kendall College of Art, CMU, SVSU, and MCC
- Develop marketable skills for immediate employment

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED VDC STUDIES AND PORTFOLIO DEVELOPMENT*



## EDUCATION AND TRAINING

### Teach, Lead, Coach (TLC)

- Provide engaging learning opportunities to elementary students and assist teachers in their classrooms
- Focus on planning educational activities, leadership, and child development through online and face-to-face learning
- Support local Special Olympics student athletes by organizing and officiating activities and competitions
- Get a head-start by earning college credit through Mott Community College
- Develop marketable skills for immediate employment, and earn CPR and First Aid certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH TEACHER CADET PLACEMENT*

## FINANCE

### Risk Management

- Investigate the field of insurance, including marketing, claims adjusting, underwriting, and financial planning
- Work with industry professionals to gain insights on the details of personal and commercial insurance and finance
- Visit local insurance companies; participate in a student organization and travel to compete at state and nationals
- Get a head-start by earning direct college credit through Olivet College (9 credits), and a paid summer internship
- Earn a national insurance designation from the Insurance Institutes of America, and develop skills for employment

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## GOVERNMENT & PUBLIC ADMINISTRATION

### Junior Reserve Officer Training Corps (ROTC)

- Develop leadership, teamwork, citizenship, and self-discipline, in a positively structured military environment
- Perform physical fitness activities, explore military science and history, government, geography, and more
- Participate in community service by presenting colors with the honor guard, and by helping those in need
- Get a head-start by attending other military schools and qualify for scholarships to multiple college ROTC programs
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES – ENLISTMENT IS NOT REQUIRED*

## HEALTH SCIENCE

### Allied Health Professionals – Advanced Studies (2nd Year Students Only)

- For senior students that have successfully completed EMC, MA1, MCF, or Sports Medicine as a junior
- Choose to study Advanced Sports Medicine, Online Dental Assisting, or Online Pharmacy Technician
- Work daily alongside professionals in one of the above areas, gaining months of clinical experience
- Get a head-start by earning college credit recognized at multiple colleges and universities
- Prepare for industry certification exams, develop marketable skills for immediate employment or internships

### Certified Nursing Assistant (CNA) – Advanced Studies (2nd Year Students Only)

- Work alongside professionals in clinical settings at long term healthcare facilities in Genesee County
- Provide personal care to patients, including taking vitals, transferring locations, and assisting with daily living needs
- Upon successful completion, be eligible to take the State of Michigan Certified Nurse Assistant certification exam
- Get a head-start by earning up to five college credits at Mott Community College
- Enhance marketable skills that employers desire, and earn/update healthcare industry certifications

### Emergency Medical Concepts (EMC)

- Work alongside professionals providing medical assistance in simulated emergency situations
- Practice Basic Life Support and CPR; Increase comprehension of medical terminology and anatomy
- Treat traumas using techniques for back-boarding, splinting, and immediate wound care
- Get a head-start by earning college credit, participate in student organizations and travel to competitions
- Develop skills for immediate employment, and earn healthcare certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF EMERGENCY MEDICAL TECHNICIAN (EMT)*





## Emergency Medical Technician (EMT) – Advanced Studies (2nd Year Students)

- Ride along with an ambulance, observe in an emergency room, and attend clinical situations
- Assess patients, manage airways, use a defibrillator, learn legal and ethical issues, and size up an emergency scene
- Upon successful completion of the course, be eligible to take the National EMT certification exam
- Get a head-start by earning college credit recognized at multiple colleges, participate in a student organization
- Enhance marketable skills desired by employers, and earn/update industry recognized certifications

## Forensic Science

- Solve crimes using the scientific problem solving method, industry technology, and safe operating procedures
- Investigate and process crime scenes, analyze physical evidence, and perform chemical laboratory experiments
- Visit related college programs, and participate in community service and a student organization with competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry related certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT*

## Forensic Science – Advanced Studies (2nd Year Students Only)

- Examine car accident reconstruction, arson investigation, and bioterrorism defense
- Expand studies to incorporate biomedical and scientific research, chemistry, toxicology, and advanced pathology
- Perform DNA analysis and environmental forensics by focusing on advanced laboratory and technology skills
- Get a head-start by earning college credit, travel to regional, state, and national student competitions
- Enhance marketable skills for immediate employment or internships, and earn/update industry certifications

## Medical Assistant I (MA1)

- Take patients' medical history, vital signs, and perform other tasks required in a healthcare office environment
- Increase comprehension of medical terminology, anatomy, and physiology
- Visit college related programs, and participate in a student organization, traveling to state and national competitions
- Get a head-start by earning college credit recognized at multiple colleges and universities
- Develop skills for immediate employment, and earn certifications in CPR, HIPAA, and OSHA

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES IN MEDICAL ASSISTANT 2*

## Medical Assistant II (MA2) – Advanced Studies (2nd Year Students Only)

- Work alongside professionals in a clinical experience; administer medications and practice taking blood samples
- Perform electrocardiograms, practice insurance medical billing, and explore legal and ethical issues
- Upon successful completion of the class, be eligible to take the Medical Assistant Registry exam
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Enhance marketable skills desired by employers, and earn/update industry recognized certifications

## Medical Career Foundations (MCF)

- Work alongside healthcare professionals at local hospitals for many weeks gaining clinical experience
- Practice taking vital signs; Increase comprehension of medical terminology, anatomy, emergency procedures
- Visit college programs; participate in a student organization at regional, state, and national competitions
- Contribute to team building and community service activities; Get a head-start by earning college credit
- Develop marketable skills for immediate employment, and earn several health industry required certifications

*JUNIOR COMPLETERS MAY RETURN FOR HER/HIS SENIOR YEAR FOR ALLIED HEALTH, CNA, EMT, OR NURSING*

## Nursing – Advanced Studies (2nd Year Students Only)

- Work alongside professionals in clinical settings at long term healthcare facilities in Genesee County
- Prepare for college nursing programs by advanced studies of pharmacology, nutrition, CPR, anatomy, and physiology
- Upon successful completion, be eligible to take the State of Michigan Certified Nurse Assistant certification exam
- Get a head-start by earning up to seven college credits at Mott Community College
- Enhance marketable skills desired by employers, and earn/update industry recognized certifications

## Sports Medicine

- Evaluate athletic injuries, immediate medical attention, perform physical therapy exercises with patients
- Increase comprehension of human anatomy, focusing on joints, muscles, injuries, and rehabilitation
- Visit related college programs, and participate in a student organization, traveling to state and national competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES - SEE ALLIED HEALTH PROFESSIONALS*



## HOSPITALITY AND TOURISM

### *Culinary Essentials I*

- Work alongside real chefs, research recipes, and gather ingredients for preparing unique dishes
- Cook and serve food safely to customers in the onsite restaurant and attendees at the GCI conference center
- Visit a farmers market and related college programs; participate in a student organization and travel to competitions
- Get a head-start by earning college credit recognized at multiple colleges and culinary schools
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF CULINARY ESSENTIALS II*

### *Culinary Essentials II - Advanced Studies* (2nd Year Students Only)

- Expand your baking, cutlery, and food preparation skills by working in the kitchen daily with professional chefs
- Compete in hot and cold food contests using commercial kitchen equipment and technology
- Visit restaurant suppliers, plan and prepare meals for hundreds of people, compete in a student organization
- Get a head-start by earning college credit recognized at multiple colleges and culinary schools
- Enhance marketable skills desired by employers, and earn/update industry recognized certifications

## HUMAN SERVICES

### *Cosmetology I*

- Work alongside professionals as you cut and style hair, provide nail services, apply make-up and skin care products
- Increase comprehension of the theory of cosmetology and develop practical skills by doing hands-on activities
- Attend a national hair show in Chicago; participate in a student organization, traveling to competitions
- Get a head-start by earning college credit recognized at multiple colleges and other schools of cosmetology
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF COSMETOLOGY II*

### *Cosmetology II - Advanced Studies* (2nd Year Students Only)

- Provide multiple services for public customers in a newly renovated salon on the campus of GCI
- Communicate effectively with customers and perform tasks relative to running your own salon business
- Accumulate the required instructional hours to qualify for the Michigan State License of Cosmetology
- Get a head-start by earning a cosmetology license that allows you to work in any salon in Michigan
- Enhance marketable skills desired by employers, and earn/update industry recognized certifications

## INFORMATION TECHNOLOGY

### *Computer Hardware Technician*

- Build, maintain, troubleshoot, and repair personal computers
- Install hardware, configure systems, upgrade components, diagnose and fix problems
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT*

### *Computer Hardware - Networking and Support - Advanced Studies* (2nd Year Students Only)

- Diagram, configure and secure computer networks used for business, gaming, mobile computing, and social networking
- Provide help desk and customer services, and enhance front line support skills
- Visit local IT departments, and participate in a student organization and travel for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Enhance marketable skills that employers desire, and earn CompTIA Net+ certification



## Cyber Security

- Detect criminal activity on computers and mobile devices and identify perpetrators through cyber forensics
- Implement countermeasures and methods of deception; explore cryptography and source code auditing
- Visit a cyber security college program, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

Classes are held Monday through Friday. Three sessions to choose from!

## Introduction to 3D Game Programming

- Write object oriented programming code to create your own 3-D virtual environment, including characters
- Play X-box and other systems to research themes, sequencing, scoring, and other aspects of game creation
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

## App Development and Web Design Programming and Animation

- Create websites with animations, graphics, forms, and more, using JAVA, HTML, and other programming languages
- Master software like Adobe Dreamweaver, Photoshop, and others, while working toward Webmaster certification
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

## LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

### Public Safety and Homeland Security

- Work with current and former police officers to perform traffic stops, take down unruly suspects, and play paint ball
- Maneuver as a team to defeat terrorists, search campus for perpetrators, and expand knowledge of the law
- Visit a 911 call center and the county jail, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

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### Public Safety and Homeland Security - Advanced Studies (2nd Year Students Only)

- Perform tactical building searches, conduct felony traffic stop scenarios, and investigate crime scenes
- Explore the juvenile justice system, offender classifications, and role play in county-wide disaster training
- Work alongside professional law enforcement personnel, gaining months of valuable experience and insights
- Get a head-start by earning FEMA certifications and college credit recognized by several colleges and universities
- Enhance marketable skills that employers desire, and earn/update industry recognized certifications

## MANUFACTURING

### Computer Numerical Control (CNC) Machining

- Operate power mills, lathes, and other machining equipment to precisely cut and shape metal parts at Baker College
- Create metal components of assemblies using machining processes commonly found in this high demand industry
- Visit manufacturers that have CNC machines, and participate in a student organization, traveling for competitions
- Get a head-start by earning several direct credits from Baker College that are also transferrable to other colleges
- Develop marketable skills for immediate employment, and make progress toward industry recognized certifications

### Welding

- Melt metal at high temperatures using four welding processes to cut or fuse parts to create usable products
- Read prints and create plans for your own customized project, applying various welding methods and skills
- Visit manufacturers that weld, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by colleges and universities, prepare for an apprenticeship
- Develop marketable skills for immediate employment, and earn industry recognized certifications

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## MARKETING

### *Virtual Enterprises International (VEI) Entrepreneur*

- Create and manage several aspects of business, such as product development, distribution, marketing, and sales
- Work as a team to develop a business plan, maintain a budget, design a webpage, all within a flipped class setting
- Attend Chamber of Commerce meetings, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

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## SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM)

### *Computer Aided Design (CAD)*

- Design and draw homes and/or mechanical parts using industry standard software to create technical plans
- Create 3D virtual models and scaled wooden architectural models; operate a 3D scanner and 3D printer
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn certifications in First Aid, CPR, and OSHA

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### *Discover E - Engineering*

- Systematically approach problem solving, exploring multiple fields of engineering and technology
- Create team and individual projects, program a robot, and work with other high-tech tools used in engineering
- Visit engineering departments, and participate in a student organization, traveling for competitions Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn certifications in First Aid, CPR, and OSHA

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## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

### *Automotive Technology*

- Hoist a car, diagnose and repair problems with the brakes, electrical system, engine, steering, and suspension
- Mount tires on rims and repair flats, change oil and filters, work on transmissions, heating, and air conditioning
- Attend an auto show, visit related college programs, and participate in a student organization, traveling to compete
- Get a head-start by earning college credit recognized by multiple trade schools, colleges, and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

*JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT*

### *Medium/Heavy Duty Technician (Diesel Mechanics)*

- Repair diesel engines and other systems on large vehicles, such as air brakes, hydraulics, suspension, and electrical
- Operate and perform maintenance on construction equipment, such as a dozer, backhoe, and forklift
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple trade schools, colleges, and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications



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**(810) 591-4462**

**G-5081 Torrey Road, Flint**

### Administrative Services

James Ply, Principal  
Brad Case, Assistant Principal

Dr. Lisa Hagel  
Superintendent

Denise Belt  
Executive Director  
Career and Technical Education

### GISD Board of Education

Cindy Gansen, President  
Dr. Paul Newman, Vice President  
Dale Green, Secretary  
Lawrence Ford, Treasurer  
Jerry Ragsdale, Trustee

All of the programs at the Genesee Career Institute have advisory committees whose members assist with curriculum, job placement, equipment recommendations, donations, and student clubs.

The committee members are professionals in business and industry, as well as counselors and instructors from Genesee County high schools and colleges.

[www.geneseecareerinstitute.org](http://www.geneseecareerinstitute.org)



The Genesee Intermediate School District (GISD) does not discriminate on the basis of race, color, religion, national origin, sex, disability, age, height, weight, marital status, genetic information, or any other legally protected characteristic, in its programs and activities, including hiring, promotion and retention. The person designated to handle inquiries regarding the nondiscrimination policies of GISD or to address any complaint of discrimination is the Director of Human Resources and Title IX Coordinator, Human Resources and Operations, 2413 West Maple Avenue, Flint, Michigan 48507-3493.

Translation services available upon request. Please call 591-4462.

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Ponemos a sus órdenes el servicio de traducción. Interesados, favor de llamar al 591-4462.

