Engineering/Manufacturing & Industrial Technology

Aviation Maintenance Technology

Understand the basics of flight, aircraft systems and aviation maintenance, plus explore related careers. The FAA-certified instructors teach aircraft/engine:

- Terminology
- Fabrication
- Installation
- Servicing
- Testing

Learn on real aircraft and aircraft parts, with all the airport's resources just outside the door.

Aviation Electronics

Learn to repair and maintain aircraft navigation, radar, and weather systems. Apply electronics skills to flight controls, engines and instrumentation in airplanes and helicopters. Learn skills in:

- Radio & navigation systems
- Electronic diagnostics equipment
- Aviation & electrical theory
- Avionics design & development

Both Aviation and Avionics are located at KCTC's own hangar at the Gerald R. Ford International Airport.

Auto Collision Repair

Learn the basics of auto body repair and prepare for state and national certifications. Gain valuable skills you can use in:

- Automobile construction
- Frame, body & fender repair
- Repair/cost estimating
- Color matching

Automotive Technology

Explore the service industry and work toward Michigan licensing and national ASE certification in one of the few nationally certified programs in the country. Students learn:

- Suspension & steering
- Electrical/electronics
- Engine repair
- Brakes

Diesel & Equipment Technology

Work with construction, trucking and heavy equipment vehicles while learning:

- How to operate & inspect vehicles
- Theory & rebuilding of diesel engines
- Total vehicle approach to preventive maintenance
- Welding - SMAW, MIG & torch

Applied Construction Technology

Build a house, from foundation to completion. Learn the basics in building codes, processes, permits and fees. Learn skills in:

- Countertop building
- Deck construction
- Drywall hanging
- Carpentry
- Cabinetry

Engineering & Architectural Design

Create engineering drawings in computer aided design (CAD). Learn to use drafting practices, processes and related CAD skills while specializing in one of two areas:

- Mechanical/machine CAD drafting
- Architecture & site design management with Geographical Information Systems (GIS)

Heating, Ventilation, Air Conditioning & Refrigeration (HVACR)

Learn all about the design, installation and servicing of residential and commercial HVACR systems. Students can earn EPA certification and learn the basics in:

- Electrical skills
- Circuits & wiring
- Controls
- Mechanical code

Mechatronics

Explore high-tech robotics, advanced electronics and clean manufacturing – just a few of the hot topics this exciting program covers. Students work with students from other programs and learn how integrated mechanical, electrical and computer controlled systems operate.

- Program & operate complex robots
- Learn to read industry blueprints & schematics
- Learn about hydraulics & pneumatics

STEM-Focused Courses

Many of our programs are heavy in Science, Technology, Engineering and Math (STEM). Look for this background behind the program names to know which ones.

Precision Machining Technology

Produce designs and unique projects using CAD/CAM software, computerized machinery and specialized tools. Watch your designs go from computer drawings to 3D products. Gain valuable skills & experience in:

- CNC programming
- On-line training
- Laser technology
- Conventional machining

Design Lab NEW!

Only for 10th graders!

Explore your passions for both design and technology in our only program for 10th graders! Discover how all kinds of things work, create new or better solutions to real world problems and bring ideas to life in our labs. Students also:

- Learn to work together in new ways
- Connect with local businesses & participate in job shadows
- Discover future KCTC programs & career options

Kent ISD is an equal opportunity institution. Kent ISD does not discriminate on the basis of race, creed, color, national origin, age, sex, physical/mental disability or veteran status in its educational programming, enrollment, employment or contracting. The Coordinator for Title IX, Section 504, the Age Discrimination Act and Title II is Coni Sullivan, Esq., 616.364.1333.

Natural Resources & Agriscience

Sustainable Agriscience

Experience new technologies in the agriscience industry through practical applications at the Tech Center arboretum, greenhouse and residential worksites. Students will learn how to reduce negative impacts on the environment. Students explore:

- **Greenhouse operations**
- **Landscaping & plant identification**
- **Recycling & composting**
- **Sustainable food production**

Students can earn one of these certifications in the second year:

- **National Pesticide Applicator License**
- **Michigan Certified Green Industry Professional**

Satellite Programs & Locations

Shuttle service from KCTC is provided to all satellite locations.

Aviation Maintenance Technology and Aviation Electronics
Located at the Gerald R. Ford International Airport

Introduction to Hospitality (also on main campus)
Located at the Downtown Market

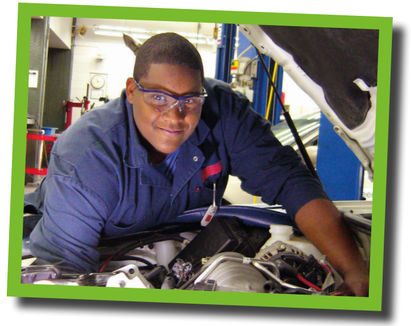
Precision Machining
Located at GRCC's Applied Technology Center with easy access to advanced equipment and GRCC classes

Health Sciences Early College Academy
Located at the Downtown Market –
Therapeutic Healthcare and Diagnostic Healthcare Professions

Located at GVSU's Cook-DeVos Center for Health Sciences –
Biomedical Technology

How do I choose a program?

- Use the career planning you've already done – identify which career path fits you
- Take a look at the options in this booklet
- Hit the website – thetechcenter.org – to investigate options
- Make a list of programs you're interested in and take it to your high school counselor
- Come to one of our Open Houses or meet with your counselor to schedule a visit
- Choose a couple of programs, and get enrolled – you'll be glad you did!



Get the details and enroll through your home high school counselor.

School bus transportation included

1st session 6:55 am to 9:10 am
2nd session 9:15 am to 11:30 am
3rd session 12:00 pm to 2:15 pm

Kent Career Tech Center
KentCareerTech

616.364.8421

www.thetechcenter.org

Rev. 9/15

KentCareer TechCenter

REAL LIFE. REAL LEARNING.

www.thetechcenter.org

Real Life Real Learning

At Kent Career Tech Center

Dynamic, high energy and totally hands-on, the Tech Center is the place to be! Check out our real world experience:

- Fully-equipped labs with the latest technology
- Job shadows and internships
- High school and college credit
- Explore and prepare for a successful career

Plus, as you prepare for college and your career, you'll meet new friends from many different schools who share your same interests. With 20+ programs to choose from, there's something for everyone!

www.thetechcenter.org

Health Sciences

Health Careers – Main Campus

Explore this hot career field in our program featuring 4 course offerings, so students can focus on areas that interest them most. Each course is one year with the option to take another course the following year:

- Certified Nursing Assistant
- Rehabilitation
- Exploring Health Careers
- Pharmacy Technician

Students begin to acquire the knowledge, skills and behaviors required in these high-demand healthcare careers. Students can earn CPR and First Aid certifications while preparing for careers or college degrees that will help them get there.

Health Careers Off-site: Health Sciences Early College Academy

Already know you're heading to college for a health-related degree? The Health Sciences Academy is designed just for students like you. Students enroll in college as part of their training and can earn up to 12 free credits. In a variety of clinical and classroom settings, students learn:

- Anatomy & physiology
- Medical terminology
- Safety & infection control
- Medical math
- Medical reseach
- Communication & employability skills
- Career pathway exploration

Students must have a 3.0 GPA or better to enroll in this program.

Therapeutic & Diagnostic Healthcare Professions courses are located at the Downtown Market. The Biomedical Technology course is based at GVSU's Cook-DeVos Center downtown.

Business, Management, Marketing & Technology

Accounting Online

Learn the theory and practice of accounting and online communication standards. Become certified in Microsoft Excel at class completion.

Accounting Systems & Solutions

Apply mathematics to business settings and develop financial management skills:

- Systematically record & summarize transactions
- Process manual & computerized information
- Analyze data using Microsoft Excel

Entrepreneurship & Marketing

Prepare for a business-related career and learn about entrepreneurship, use of social media, and marketing in sports and entertainment. Students also explore:

- Advertising & promotion
- Travel & tourism marketing
- Retail & professional sales
- Market research
- Global business

Information Technology

Have fun learning and preparing for successful IT careers and college! Build and repair computers and networks, then learn to defend them from attacks and explore security. Create video games and mobile apps. Plus, prepare for industry certification with Cisco, Microsoft and A+ while earning dozens of college credits.

Students can specialize during the second year in either:

- Programming
- Networks, switches & routers

Human Services

Criminal Justice

Explore a wide variety of related careers while gaining basic knowledge and skills in law enforcement, criminal investigations and courts and legal services. You will get a chance to participate in a wide variety of activities such as:

- Mock court
- Crime scene investigations
- Obstacle & adventure course
- Mock crime scenarios

Hospitality & Culinary

Students learn industry basics in the first year of this popular program – the only high school culinary program in Michigan accredited by the American Culinary Federation – as they rotate through the four culinary units:

- Introduction to Hospitality
- Introduction to Baking
- Dining Room/Short Order Cooking
- Quantity Cooking

Students can specialize during the second year in either:

- Baking & Pastry Arts
- Culinary Arts

Most classes in this award-winning program happen on our main campus, but some students learn and work everyday in the middle of the Grand Rapids culinary scene at the Downtown Market.

Hospitality Fellowship

Return to KCTC the year after graduation for a deeper study of Culinary Arts or Baking & Pastry Arts. This fellowship can be the second or third year of Hospitality study. Students completing 3 full years of the program can earn up to 18 free college credits and several important industry certifications.

www.thetechcenter.org

Arts & Communication

Graphic Communications

Discover the rich variety of work in the graphic communications industry. Learn to combine art and technology to communicate ideas visually. Learn how the pro's create logos and ads, use digital photography, and create and produce both web and print-ready material. Course offerings include:

- Layout & design
- Digital imaging
- Electronic publishing
- Printing technologies
- 3D animation & game design

What's it really like to be a student at the Tech Center?

Check out our award-winning video at thetechcenter.org to see and hear for yourself!

Earn high school and college credit FREE

Nearly all of our students go on to college or technical training, and many already have college credit on their transcripts, thanks to our programs.

- Need high school credit in core academics or electives?
- Want some options for additional credits?
- Want to graduate with some college credits too?

From high school credit to direct and early college credit – we've got them. In fact, our students earn more than 1000 free college credits each year! Plus, they collect roughly **$1 million** in scholarships every year!

Leading the next generation of professionals – our teachers

These caring and dedicated instructors were working professionals in their fields who wanted to come share their expertise with students like you!