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CAREER OPPORTUNITIES TO CHOOSE FROM



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TECHNICAL CAREER FACTS

Employment in business and financial operations occupations is projected to grow 10 percent from 2016–2026, faster than the average for all occupations, adding about 773,800 new jobs.

Globalization, a growing economy, and a complex tax and regulatory environment are expected to continue to lead to strong demand for accountants and auditors. In addition, increasing usage of data and market research in order to understand customers and product demand, and to evaluate marketing strategies, will lead to growing demand for market research analysts.

**bureau of labor statistics*



making education and employment
after high school a reality for all
battlecreekcan.org

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Content brought to you by Battle Creek College Access Network (CAN) in an effort to further our goal of creating a college-going culture by nurturing and guiding students of all ages through high school graduation, and providing support and resources to make education after high school a reality for all.



a partnering initiative of
**Battle Creek
Community Foundation**
For good. For ever. For all.



BATTLE CREEK, MICHIGAN

LOCAL CAREER & TECH PROGRAMS

Today’s cutting-edge, rigorous and relevant career and technical education (CTE) prepares youth and adults for a wide range of high-wage, high-skill, high-demand careers.

CACC

CALHOUN AREA CAREER CENTER

The Calhoun Area Career Center provides 20 career and technical education programs for area 11th and 12th grade students, serving both public and private school districts throughout the Calhoun Intermediate School District (CISD).

Programs have been designed to assist students by integrating academic knowledge and career/technical skills with the flexibility to meet the individual student’s needs.

The involvement and support of business and industry have been a key component to the Center’s success. Employers want students to be prepared in the areas of science, mathematics, and technology; as well as have problem solving, teamwork, and communication skills. The CACC staff believes that ALL students should graduate from high school with career and technical skills that support success in their chosen career path.

Arts & Communications

- Graphic Communications Technology

Business, Management, Marketing & Technology

- Computer Networking
- Computer Programming
- Culinary Arts/Hospitality

Engineering/Manufacturing & Industrial Technology

- Automotive Service Technology
- Aviation Exploration
- Collision Repair Technology
- Construction Technology
- Intro to Robotics & Engineering
- Power Equipment Technology
- Welding Technology

Health Sciences

- Emergency Medical Technician (EMT) Basic
- Health Careers Prep
- Health Occupations
- 21st Century Health Careers

Human Services

- Criminal Justice
- Early Childhood Education
- Education Academy
- Law Enforcement

Natural Resources & Agriscience

- Agriscience



CACC contact: 475 E. Roosevelt Ave
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Early College is a program that enables students to earn a high school diploma and college credits toward a KCC Associate Degree or technical certificate at little to no cost for students or their families.

Why Was Early College Created?

- Make college an affordable option for more students and families;
- Provide a gradual, structured and supported transition from high school to college;
- Create a strong incentive for students to pursue career pathways needed to sustain and grow the local economy;
- Establish a collaborative network between high schools, the community college and local industries to produce a workforce with the technical and employability skills desired by employers.



Who Can Participate?

Early College is available to all interested students that attend districts that currently partner with KCC for Early College. However, there is an intentional focus on those who have traditionally been under served—especially those who are at-risk of not completing high school, are economically disadvantaged or the first in their families to attend college.

How/When Can Students Apply?

Students apply for this program during their sophomore (10th grade) year of high school. If a student is interested in their high school’s Early College program, they will need to schedule a meeting with the Early College contact at their high school.

How Does It Work?

Students have to be accepted into their high school’s Early College program no later than the first high school count day of their junior (11th grade) year. Depending on the student’s high school schedule, they will begin their first college course first semester of the junior year. Here is an example of how many courses an Early College student may enroll in each year:

GRADE	SEMESTER 1	COLLEGE CREDITS	SEMESTER 2	COLLEGE CREDITS
11th	1 college course	3	2 college courses	3-6
12th	2-3 college courses	6-9	2-3 college courses	6-9
13th*	4-5 college courses	12-15	4-5 college courses	12-15

**The student must enroll in a minimum of 12 credits each semester of the 13th year.*



KCC contact: Angie Bess
(269) 565-2093
bessa@kellogg.edu

HOT SKILLS FOR HOT JOBS

Check out the most in-demand skills employers are looking for:

Soft Skills (personal characteristics)

1. Creativity
2. Persuasion
3. Collaboration
4. Adaptability
5. Time Management

Hard Skills (specific, teachable skills)

1. Cloud Computing — use a network of remote servers hosted on the internet
2. Artificial Intelligence — develop computers able to perform human tasks
3. Analytical Reasoning — look at data or information to draw conclusions
4. People Management — oversee or provide support/direction for employees
5. User Experience Design — improve a computer program user’s experience

The Ultimate Skill

NETWORKING — The activity of interacting with others to exchange information and knowledge. By networking you can: **develop professional skills** and **create lasting connections**.

TIPS — Try to **attend community events** like career fairs or open houses and **work to start casual conversations**. A casual community connection could produce unexpected, positive results!

LinkedIn, an online social network for professionals, analyzed hundreds of thousands of job postings to decide which skills companies need most in 2019.

HOT 50

MICHIGAN'S JOB OUTLOOK THROUGH 2026

	MICHIGAN'S HIGH-DEMAND, HIGH-WAGE CAREERS	PROJECTED ANNUAL JOB OPENINGS	HOURLY WAGE RANGE	JOB GROWTH 2016-2026	TYPICAL EDUCATION AND TRAINING BEYOND HIGH SCHOOL
HOT 50	Accountants and Auditors	3,520	\$25 - \$42	9.4%	Bachelor's degree, license
HOT 50	Administrative Services Managers	630	\$35 - \$55	9.4%	Bachelor's degree, plus work experience
	Architectural and Engineering Managers	800	\$51 - \$74	9.0%	Bachelor's degree, plus work experience, license
	Carpenters	2,600	\$16 - \$28	7.5%	Apprenticeship, license
	Child, Family, and School Social Workers	1,570	\$19 - \$28	13.6%	Bachelor's degree, license
	Civil Engineers	860	\$30 - \$45	16.8%	Bachelor's degree, license
	Commercial and Industrial Designers	740	\$28 - \$46	7.9%	Bachelor's degree
	Computer and Information Systems Managers	830	\$46 - \$73	12.3%	Bachelor's degree, plus work experience
HOT 50	Computer Systems Analysts	1,200	\$31 - \$49	8.5%	Bachelor's degree
HOT 50	Computer User Support Specialists	1,790	\$17 - \$29	11.0%	Some college, no degree
	Construction Managers	540	\$33 - \$56	9.9%	Bachelor's degree, plus moderate-term OJT
	Dental Hygienists	770	\$27 - \$34	20.0%	Associate's degree, license
	Education Administrators, Postsecondary	630	\$34 - \$66	10.6%	Master's degree, plus work experience
	Educational, Guidance, School, and Vocational Counselors	880	\$19 - \$33	15.2%	Master's degree, license
	Electrical Engineers	780	\$33 - \$50	13.5%	Bachelor's degree, license
	Electricians	2,580	\$20 - \$35	6.8%	Apprenticeship, license
	Elementary School Teachers Except Special Education	2,840	\$22 - \$30	5.6%	Bachelor's degree, license
	Financial Managers	1,460	\$40 - \$72	18.3%	Bachelor's degree, plus work experience
	General and Operations Managers	5,760	\$33 - \$74	8.8%	Bachelor's degree, plus work experience
	Health Specialties Teachers, Postsecondary	730	\$36 - \$82	25.4%	Doctoral or professional degree
	Healthcare Social Workers	800	\$22 - \$31	18.7%	Master's degree, plus internship, license
	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,020	\$17 - \$29	13.7%	Postsecondary nondegree award, plus long-term OJT, license
	Heavy and Tractor-Trailer Truck Drivers	6,870	\$16 - \$24	9.7%	Postsecondary nondegree award, plus short-term OJT, license
	Human Resources Specialists	1,600	\$21 - \$36	7.3%	Bachelor's degree
	Industrial Engineers	2,200	\$34 - \$51	18.2%	Bachelor's degree, license
	Industrial Machinery Mechanics	1,840	\$19 - \$30	10.0%	Long-term OJT
	Insurance Sales Agents	1,410	\$17 - \$38	9.9%	Moderate-term OJT, license
	Lawyers	940	\$33 - \$67	7.3%	Doctoral or professional degree, license
	Licensed Practical and Licensed Vocational Nurses	1,420	\$20 - \$26	10.4%	Postsecondary nondegree award, license
HOT 50	Market Research Analysts and Marketing Specialists	2,080	\$21 - \$40	24.0%	Bachelor's degree
	Marketing Managers	450	\$42 - \$77	11.5%	Bachelor's degree, plus work experience
	Mechanical Engineers	3,160	\$34 - \$53	15.2%	Bachelor's degree, license
	Medical and Health Services Managers	1,180	\$35 - \$61	18.1%	Bachelor's degree, plus work experience
	Nurse Practitioners	350	\$43 - \$55	34.3%	Master's degree, license
	Occupational Therapists	380	\$31 - \$45	22.9%	Master's degree, license
	Paralegals and Legal Assistants	730	\$19 - \$29	14.5%	Associate's degree
HOT 50	Personal Financial Advisors	530	\$26 - \$72	15.1%	Bachelor's degree, plus long-term OJT, license
	Physical Therapist Assistants	630	\$20 - \$30	30.7%	Associate's degree, license
	Physical Therapists	630	\$35 - \$48	27.4%	Doctoral or professional degree, license
	Physician Assistants	440	\$43 - \$58	37.8%	Master's degree, license
	Physicians and Surgeons	540	\$29 - \$100+	9.8%	Doctoral or professional degree, plus residency, license
	Plumbers, Pipefitters, and Steamfitters	1,620	\$22 - \$36	12.7%	Apprenticeship, license
	Police and Sheriff's Patrol Officers	1,330	\$22 - \$33	6.6%	Moderate-term OJT
	Registered Nurses	6,650	\$28 - \$38	13.5%	Bachelor's degree, license
	Sales Managers	1,000	\$44 - \$78	7.0%	Bachelor's degree, plus work experience
	Sales Representatives, Except Technical and Scientific Products	5,680	\$20 - \$43	2.9%	Moderate-term OJT
	Social and Community Service Managers	550	\$26 - \$38	16.3%	Bachelor's degree, plus work experience
HOT 50	Software Developers, Applications	2,160	\$33 - \$53	31.0%	Bachelor's degree
HOT 50	Software Developers, Systems Software	1,000	\$33 - \$52	15.2%	Bachelor's degree
	Training and Development Specialists	690	\$20 - \$36	12.4%	Bachelor's degree, plus work experience



ABOUT THE PROGRAM

Accountants analyze financial information and prepare financial reports to determine or maintain record of assets, liabilities, profit and loss, tax liability, or other financial activities within an organization.

Kellogg Community College's Accounting Program teaches the fundamentals of accounting in the first two principle courses elected in this pathway. Building on these fundamentals, students continue their study with an emphasis on taxation, cost, managerial, and computerized accounting skills.

Kellogg Community College offers an Accounting Certificate (24 credit hours) as well as an Associate in Applied Science degree in Accounting (61 credit hours).



ACCOUNTING/ FINANCE

estimated hourly wages \$14.16–\$61.53

Bank Teller	—	Median Hourly	\$14.16
Accountant/Auditor	HOT 50	Median Hourly	\$33.89
Personal Financial Advisor	HOT 50	Median Hourly	\$61.53

(OTHER TITLES IN THIS FIELD INCLUDE ACCOUNTS RECEIVABLE CLERK, BUDGET ANALYST, COMPTROLLER)



Asha Wright, 25
Bachelors in Science in Accounting at Western Michigan University | Graduation: Spring 2017

“ I thought I wanted to be a Nurse because math is a useful skill in that career, but the success in my accounting class at Battle Creek Central inspired me to consider a career in Accounting. ”

Talent Profile

Asha enjoys the challenge of working with complex numbers and solving problems. As a Battle Creek Central High School graduate and Legacy Scholar, she decided to explore her interest in this field as a freshman at Kellogg Community College. The rest was history. Asha worked diligently to earn an Associate Degree in Science in Accounting at KCC in 2015, and ultimately earned a Bachelors Degree at Western Michigan University in 2017. She currently serves as an Accounting Specialist. Recently, Asha met a CPA who founded an all-female accounting firm and hopes to become a leader of that magnitude herself someday. Asha is currently working on the requirements to become a Certified Public Accountant and wants to continue empowering others and giving back to her community.

What You'll Learn & Do

Accounting personnel compile and analyze business records and prepare financial reports. Entry-level accounting positions are typically in accounts receivable or payable, bookkeeping, or are trainee in nature. Employers have indicated that Accounting graduates with specific skills in financial, cost, managerial, and tax accounting may have an employment advantage.

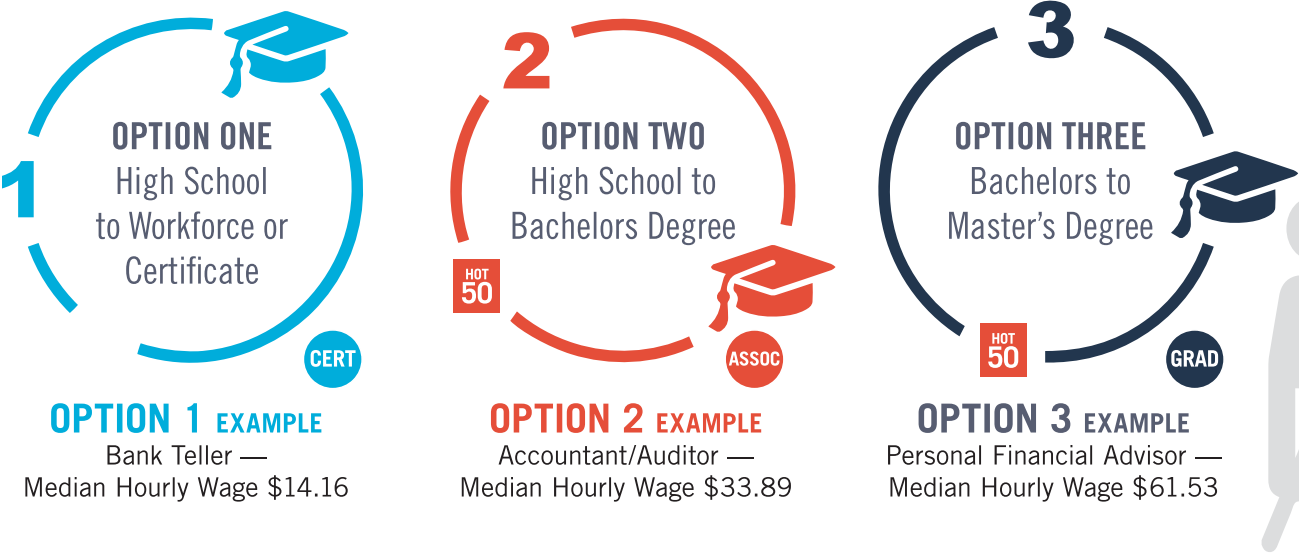
Day to Day Tasks

- Prepare financial documents and reports
- Investigate any oddities in financial statements
- Use accounting software to make the most of provided data
- Work to comply with local, state, and federal laws

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career pathway options



CAREER LADDER OPTIONS

- GRAD** Various Master's and Doctoral Degree programs around the United States
- BACH** WMU Bachelors in Business Administration – Accounting
- ASSOC** KCC Associate in Applied Science degree in Accounting
- CERT** KCC Accounting Certificate
- WORK** Entry-level positions available after high school



ABOUT THE PROGRAM

Management Analysts conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively.

Kellogg Community College's Business Management program provides a relevant curriculum that prepares students for entry-level leadership positions, universities, or related military training programs.

Kellogg Community College offers a Business Management Certificate (23 credit hours) as well as an Associate in Applied Science degree in Business Management (60 credit hours).



BUSINESS MANAGEMENT

estimated hourly wages \$16.24–\$46.24

Data Entry and Information Processing Worker	—	Median Hourly	\$16.24
Business Operations and Management Analyst	★ USA MIL	Median Hourly	\$32.86
Administrative Services Manager	HOT 50	Median Hourly	\$46.24

(OTHER TITLES IN THIS FIELD INCLUDE PROJECT MANAGER, INSURANCE UNDERWRITER, CHIEF EXECUTIVE OFFICER)



Cody Newman, 27
Master's Degree in Architecture at
University of Michigan | Graduation: Spring 2016

“ I knew from a very young age that I wanted to be an architect. I remember driving with my parents and always thinking construction sites and equipment were very cool. ”

Talent Profile

The creative process is what Cody likes best. As the Owner of Driven Design Studio, Cody is currently overseeing the construction of, and will manage, his own business. He is a Calhoun Area Career Center and Kellogg Community College graduate who has roots in Battle Creek. The job, he says, is a combination of the creative process and technical skill. Entrepreneurship, though, is a necessity. Cody and his wife are currently working to open The Record Box—a business that will provide meeting and social spaces in Battle Creek as well as serve as a local brewery. In the future, Cody wants to push the creative bounds of architecture and to see more architects and business owners present in Battle Creek, MI. He is hoping he can play a part in growing industry and competition in our city.

What You'll Learn & Do

Managerial personnel oversee, direct, and plan the work of others, as well as determine business policy. Supervisors, the largest managerial group, direct the activities of workers in areas of sales, production, and purchasing. Entry-level management positions are typically supervisory or trainee in nature. Some employers have indicated that business management graduates with specific skills such as accounting, marketing and human resources, may have an employment advantage.

Day to Day Tasks

- Analyze business or financial data
- Discuss business strategies, practices, or policies with managers
- Analyze jobs using observation, survey or interview techniques
- Work with personnel to coordinate business operations

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career pathway options



OPTION 1 EXAMPLE
Data Entry and Information Processing Worker —
Median Hourly Wage \$16.24



OPTION 2 EXAMPLE
Business Operations and Management Analyst —
Median Hourly Wage \$32.86



OPTION 3 EXAMPLE
Administrative Services Manager —
Median Hourly Wage \$46.24

CAREER LADDER OPTIONS

- GRAD** Various Master's and Doctoral Degree programs around the United States
- BACH** WMU Bachelors in Business Administration – Business Analytics
- MIL** Training opportunities available through various military branches
- ASSOC** KCC Associate in Applied Science degree in Business Management
- CERT** KCC Business Management Certificate



ABOUT THE PROGRAM

The bustling industry of Hospitality & Tourism includes attractions management, convention planning, customer service, event planning, food service, gaming, lodging, marketing, sales and travel. A career in tourism and hospitality management could secure someone a job almost anywhere in the world.

Students can begin exploring curriculum related to Hospitality & Tourism and gain practical experience in the Culinary Arts & Hospitality program at the Calhoun Area Career Center.

For those wanting to extend their training in this career field, many colleges and universities offer programs. The Michigan State University School of Hospitality Business program is rated #1 in the United States and offers a Bachelors degree in Hospitality Business (120 credit hours).



HOSPITALITY/TOURISM

estimated hourly wages \$12.76–\$35.86

Restaurant Cook — Median Hourly \$12.76
Meeting, Convention, and Event Planner — Median Hourly \$23.74
Logistician  Median Hourly \$35.86

(OTHER TITLES IN THIS FIELD INCLUDE CONCIERGE, FLIGHT ATTENDANT, WEDDING COORDINATOR)



Chef Steven Deal, 52

Bachelors in Science in Technical Education at Ferris State University | Graduation: Spring 2022

“What inspires me most, is when you see the spark in a student—the passion that comes from learning something new or cements their desire to be in this profession.”

Talent Profile

Chef Steven Deal grew up in Lansing, MI, but calls Battle Creek home. He has worked in the culinary industry since he was 16 years old. Chef Deal recalls a technical education teacher telling him to strive to do what he enjoys most. This perspective changed his trajectory, directing his focus to his true passion. He trained in an apprenticeship, where he worked under a Certified Executive Chef. In 1992, Chef Deal became certified in Culinary Arts by the American Culinary Federation. He would go on to sustain a career for 17 years as Executive Chef with the Battle Creek Country Club. He is now an instructor at the CACC. Although Chef Deal thought he might teach at the college level, he now believes that preparing students at such an important time in their lives is the best work he can do for our community.

What You’ll Learn & Do

Participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods according to restaurant recipes and specifications. Kitchens can be hot, noisy and stressful places, so you'll need to be able to work efficiently and quickly to be successful as a line cook.

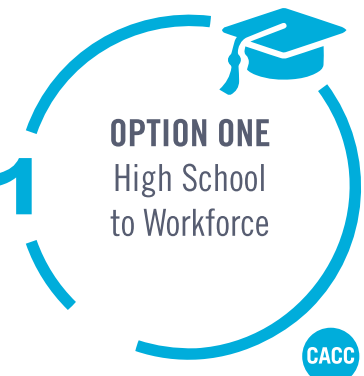
Day to Day Tasks

- Set up and stock stations with all necessary supplies
- Prepare food for service, including chopping vegetables, butchering meats, and preparing sauces
- Cook menu items in cooperation with kitchen staff
- Communicate with head cook or chef regarding meal preparation priorities

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career pathway options



OPTION 1 EXAMPLE
Restaurant Cook —
Median Hourly Wage \$12.76



OPTION 2 EXAMPLE
Meeting, Convention, and
Event Planner —
Median Hourly Wage \$23.74



OPTION 3 EXAMPLE
Logistician —
Median Hourly Wage \$35.86

CAREER LADDER OPTIONS

- BACH** WMU Bachelors in Integrated Supply Management
- MIL** Training opportunities available through various military branches
- BACH** WMU Bachelors in Communication; Public Relations
- CERT** WMU Certificate in Event Planning
- CACC** Culinary Arts/Hospitality

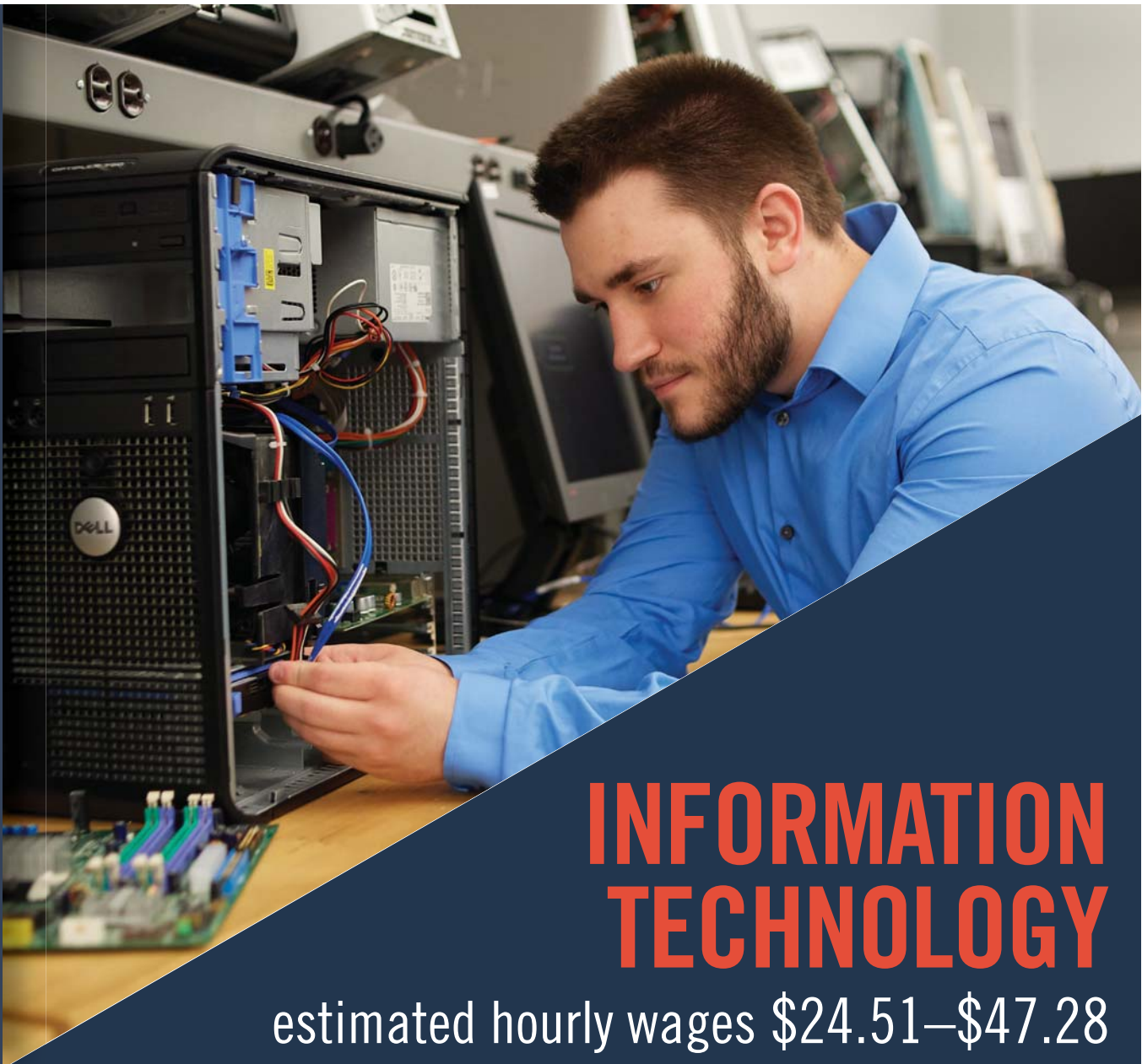


ABOUT THE PROGRAM

Information technology involves the use of computers to store, retrieve, transmit, and manipulate data, or information, often in the context of a business or other enterprise. IT professionals are involved with designing, developing, supporting and managing computer software, computer hardware as well as information networks, including the internet.

Students can begin exploring curriculum related to Information Technology and gain practical experience in the Computer Networking program at the Calhoun Area Career Center.

The Computer Networking program at Kellogg Community College prepares students to enter the career of Computer Server and Networking Administration, wiring/cabling, as well as those already working in the industry who need to upgrade their skills for new responsibilities or job growth. KCC offers an Associate Degree in Applied Science in Computer Networking (60 credit hours).



INFORMATION TECHNOLOGY

estimated hourly wages \$24.51–\$47.28

Computer User Support Specialist		Median Hourly	\$24.51
Computer Systems Analyst		Median Hourly	\$42.66
Cyber Security Specialist		Median Hourly	\$47.28

(OTHER TITLES IN THIS FIELD INCLUDE CLOUD ARCHITECT, MOBILE APPLICATION DEVELOPER, WEB DEVELOPER)



Christopher Thompson, 18
Associate Degree in Applied Science in Computer Networking
at Kellogg Community College | Graduation: Spring 2020

“ I love to learn about technology and did not realize how awesome Cyber Security could be as a career. The National Cyber League and the CyberPatriots program helped steer me in the right direction. ”

Talent Profile

As a kid, Chris wanted to turn his passion for video games into a career. His experiences at the Calhoun Area Career Center and involvement with information technology recruitment programs deepened his understanding of opportunities in the IT career field. In fact, Chris participated in the CyberPatriots program, where his CACC team ranked 1st statewide in 2017, and then 2nd in 2018. He currently works as an IT Help Desk Support Technician but strives to reach the highest levels of the industry. Chris ultimately aspires to enter a doctorate program in Information Systems, but will work to earn certifications (A+, Network+, Security+, and CEH) along the way. He understands that IT careers require motivation to complete rigorous education requirements but knows the importance of Cyber Security in today's global economy.

What You'll Learn & Do

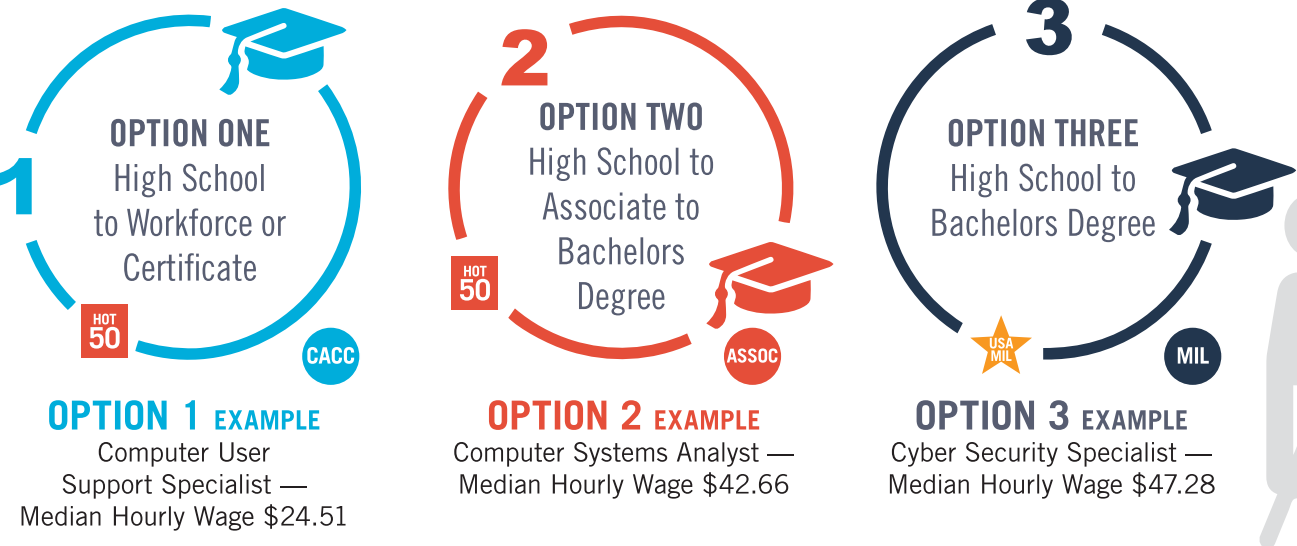
Cyber Security Specialists are responsible for protecting civilian and military networks and the country against cyber-attacks from enemy forces. These specialists monitor, analyze, detect, and respond to unauthorized activity in the cyberspace domain. They also perform deliberate actions to strengthen information systems and networks, perform vulnerability assessments, and respond to incidents.

Day to Day Tasks

- Stay informed of the latest international security news via every medium, including social media
- Analyze and evaluate potential security threats
- Prepare technical reports
- Execute security measures, including firewalls, password encryptions, etc.



career pathway options



CAREER LADDER OPTIONS	
	WMU Bachelors in Business Administration – Computer Information Systems
	Training opportunities available through various military branches
	KCC Associate in Applied Science in Computer Engineering Technology
	KCC Computer Networking Professional Certifications available
	Computer Networking

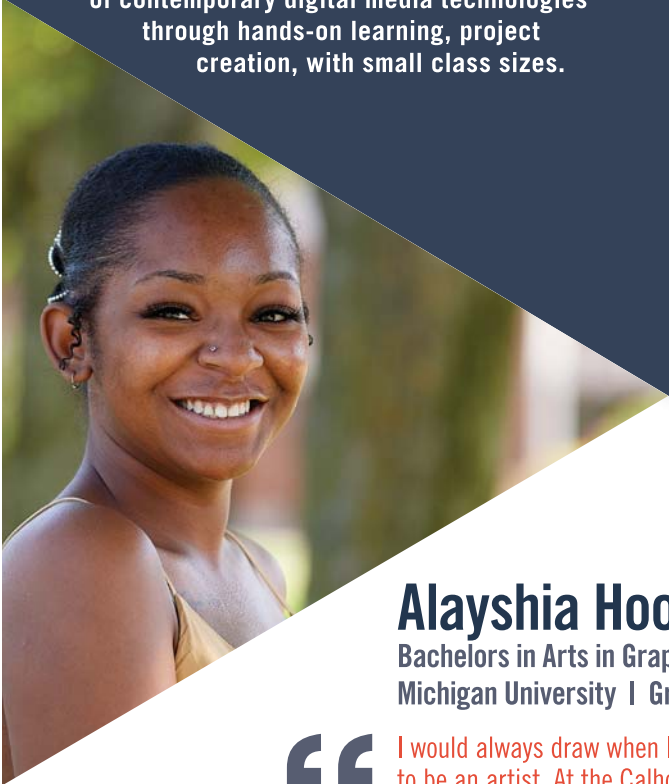


ABOUT THE PROGRAM

In today's fast-paced world, visual communication is becoming more important every day. Graphic design and communication is an art that meets society's visual communication needs by combining images, words and ideas to convey information to an audience. Marketing is the promotion of business products or services to a target audience.

Students can begin exploring curriculum related to Marketing and gain practical experience in the Graphic Communications Technology program at the Calhoun Area Career Center.

KCC offers an Associate in Applied Science degree in Graphic Design (63 credit hours), a Graphic Design Certificate (33 credit hours) and a Web Design and Development Certificate (35 credit hours). The Graphic Design program emphasizes creativity, artistic design and the use of contemporary digital media technologies through hands-on learning, project creation, with small class sizes.



Alayshia Hoover, 19

Bachelors in Arts in Graphic Design at Western Michigan University | Graduation: Spring 2022

“ I would always draw when I was younger but did not want to be an artist. At the Calhoun Area Career Center, I learned that you can make a career out of artistic talent. ”

MARKETING

estimated hourly wages \$21.04–\$60.70

Audiovisual and Broadcast Technician		Median Hourly \$21.04
Market Research Analyst		Median Hourly \$30.35
Advertising Manager	—	Median Hourly \$60.70

(OTHER TITLES IN THIS FIELD INCLUDE BRAND MANAGER, MEDIA BUYER, SOCIAL MEDIA MANAGER)

Talent Profile

Alayshia seeks to communicate ideas through art and expression. She is a graduate of the Calhoun Area Career Center and graduated from Battle Creek Central High School as a Legacy Scholar. Originally, Alayshia did not strive to attend a 4-year university because of financial challenges, but after receiving financial aid and scholarships, that worry was eliminated. Although Alayshia was an introverted student, her expression through art allowed her to share her mood, her hopes, and her dreams. She looks forward to the signature WMU Graphic Design program experience, which takes students to Google Headquarters during their junior year. Eventually, she would like to create her own business. Her degree will be useful in marketing, but Alayshia is keeping her mind open about how to best apply her skills.

What You'll Learn & Do

Advertising management is a process designed to oversee and control the various advertising activities involved in a program to communicate to a firm's target market, which is ultimately designed to influence the consumer's purchase decisions.

Day to Day Tasks

- Compile operational data
- Oversee the project work of employees
- Work with clients to provide marketing or technical advice
- Examine marketing materials to ensure compliance with policies and regulations

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career pathway options



CAREER LADDER OPTIONS

- BACH** WMU Bachelors in Business Administration – Marketing
- BACH** WMU Bachelors in Fine Arts – Graphic Design
- ASSOC** KCC Associate in Applied Science in Graphic Design Technology
- CERT** KCC Graphic Design Certification; Web Design and Development Certificate
- CACC** Graphic Communications Technology



ABOUT THE PROGRAM

Software Engineering is the application of engineering to the development of software in a systematic method. Software Engineers use knowledge of engineering principles and programming languages to build software products, develop computer games, and run network control systems.

Students can begin exploring curriculum related to Software Engineering and gain practical experience in the Computer Programming program at the Calhoun Area Career Center.

Computer programming curriculum teaches the core skills needed as a programmer in the most widely used languages. Through elective courses, the student may choose to emphasize additional skills in application use, application programming, networking, or operating systems. KCC offers an Associate Degree in Applied Science in Computer Programming (60-63 credit hours).



SOFTWARE ENGINEERING

estimated hourly wages \$23.66—\$48.04

Medical Equipment Repairers	★ USA MIL	Median Hourly	\$23.66
Computer Programmer	—	Median Hourly	\$40.52
Software Developer	★ HOT 50	Median Hourly	\$48.04

(OTHER TITLES IN THIS FIELD INCLUDE PROGRAMMER ANALYST, DATABASE ADMINISTRATOR, GAME DEVELOPER)



Steven Pignataro, 36
Computer Networking Program graduate at the Calhoun Area Career Center | Co-CEO of 'corePHP'

“ There was a moment when I didn't feel like school was for me—that I really wanted to just dive in and push myself to the limit, professionally. ”

Talent Profile

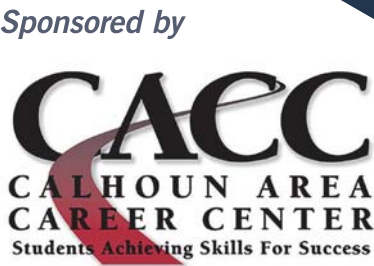
Steven has been adept at computer programming since age 12. He studied Computer Networking at the CACC and continued pursuing that passion by attempting an Associate Degree at Kellogg Community College. In a short time, however, Steven sought opportunities to directly apply his skills, mainly in web development. In 2001, he created the company 'corePHP' because, at the time, there were no adequate content management systems for organizations to utilize. Steven went on to become one of the co-founders of Joomla!—the second-largest, open-sourced content management system in the world. What he loves most about software engineering is that every day presents a new challenge. In the future, Steven and his brother, Michael, want to help build businesses and platforms, and help those that work for them to succeed in their own endeavors.

What You'll Learn & Do

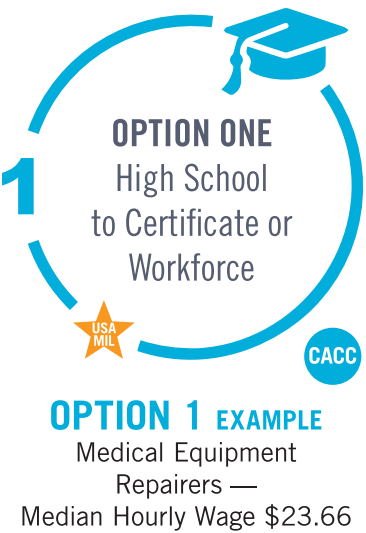
A Computer Programmer uses a variety of computer languages such as Java and C++, in order to write software programs. They manipulate the program designs made by engineers and developers into a language that the computer can understand and follow. Some employers have indicated that computer programming graduates with specific skills such as reading, problem solving and mathematics, may have an employment advantage.

Day to Day Tasks

- Write, update, and maintain computer programs or software packages to handle specific jobs such as tracking inventory, storing or retrieving data, or controlling other equipment
- Conduct trial runs of programs and software applications to ensure desired effect
- Consult with managerial, engineering, and technical personnel to clarify program intent, identify problems and suggest changes



career pathway options



CAREER LADDER OPTIONS

- BACH** WMU Bachelors in Science in Engineering – Computer Engineering
- MIL** Training opportunities available through various military branches
- ASSOC** KCC Associate in Applied Science in Computer Programming
- CERT** KCC Computer Programming Certificate; Computer Engineering Technology Professional Certifications also available
- CACC** Computer Programming

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Terry Burleson, Program Manager, 269-719-8228 or terry@battlecreekcan.org

GLOSSARY OF TERMS

ASSOCIATE DEGREE — An undergraduate academic degree usually earned in two years or more. This can be attained at community college, technical college, vocational school and some universities.

BACHELORS DEGREE — An undergraduate academic degree usually earned in four to seven years. This can be attained at colleges and universities.

CERTIFICATE — A document granted upon the successful completion of a certificate program, typically taking less than two years to complete.

CERTIFICATION EXAM — Often referred to simply as “Certification,” this exam assures an individual is qualified to perform a job or task, generally following educational training.

COLLEGE — Any program or training which earns you a degree/credential that can help you find meaningful employment after high school.

CREDIT HOUR — Unit of measuring educational credit, usually based on the number of classroom hours per week throughout a term or semester.

DUAL ENROLLMENT — A student enrolled in high school and at least one college course at the same time.

GRADUATE DEGREE — An advanced academic degree granted after six or more years of studies. This can be attained at university-level graduate programs. Examples include Master’s and Doctoral degrees.

HARD SKILLS — Specific, teachable skills that can be defined and measured like reading, math and writing.

INTERNSHIP — On-the-job work experience that is related to your career interests or current field of study, internships can be paid or unpaid.

JOB OUTLOOK — A forecast of the change in the number of people employed in a particular occupation over a set period of time.

LICENSE — Provides permission by a competent authority to engage in a business or occupation.

MEDIAN HOURLY WAGE — Wage estimate between the highest paid 50% and the lowest paid 50% of workers in that occupation; half of the workers in a given occupation earn more than the median wage and half the workers earn less than the median wage.

SOFT SKILLS — Personal characteristics that enable someone to interact effectively with other people. Examples include communication, professionalism, punctuality, attitude, conflict resolution, etc.

WHAT IS MICAREERQUEST SOUTHWEST?

MiCareerQuest Southwest is an EXPERIENTIAL career investigation event designed specifically for 8th grade students in Kalamazoo and Calhoun County school districts. MiCareerQuest is a unique hands-on experience, where students will find out what it's really like to be a RN, a graphic artist, a mechanical engineer and more—direct from the people who do these jobs every day! Over 75 local business and industry, and post-secondary partners will be on-site to showcase exciting careers in the following career pathways:

- Engineering & Manufacturing
- Health Sciences & Natural Sciences and Human Services
- Information Technology
- Professional Trades

STUDENTS WILL...

- Talk with experts in a variety of fields
- Touch, feel and work with actual workplace tools, equipment and technology
- Connect classroom learning to the real world
- Discover opportunities for art enrichment



INTERESTED IN BEING A VENDOR?

If your business is interested in participating in this dynamic two-day event please contact:

Teresa Osborne at 269.968.2271, ext 5244
osbornet@calhounisd.org



FOR MORE INFORMATION: VISIT WWW.MICAREERQUESTSW.ORG

Battle Creek CAN establishes a college-going culture by nurturing and guiding students of all ages through high school graduation, and providing support and resources to make education after high school a reality for all.

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