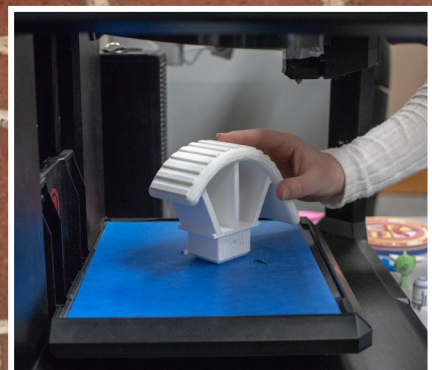
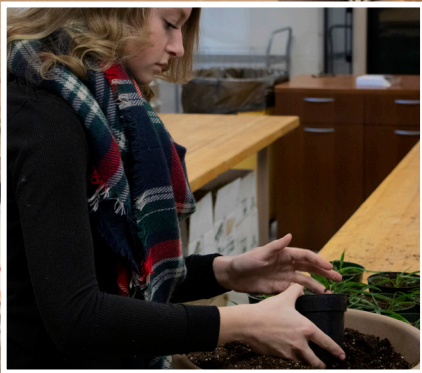




CAREER CENTER PROGRAM GUIDE



Where students
are CAREER READY
& COLLEGE PREPARED



YOUR FUTURE IS HERE!

A MESSAGE TO STUDENTS, PARENTS, AND OUR COMMUNITY

The Bay-Arenac ISD Career Center opened its classrooms and labs in 1972. So much has changed in Career and Technical Education from then until now! Fast forward to today, and you will find that "Career" Center students know they need to attend a college, university, technical school or community college to be successful in our highly competitive global economy. Based on our follow-up surveys with graduates, over 82% of Career Center students go directly to college after completing their high school and career center program. Students learn highly technical skills and have many opportunities to become a leader. It is wonderful to see their confidence grow! The entire staff is committed to helping our students develop a comprehensive plan for their future. We are so proud of our students' goals and accomplishments.

At the Bay-Arenac ISD Career Center, students: "Get the Edge" by being career ready and college prepared!

Warmest Regards,

Brian DuFresne, Principal/CTE Director



CAREER CENTER

THE MISSION OF THE BAY-ARENAC ISD CAREER CENTER

We provide quality training in a safe environment, working cooperatively with area schools and communities to meet the changing needs of our society.



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Job Spotlight source: <https://www.careeronestop.org/>

AGRICULTURE & NATURAL RESOURCES

TWO YEAR PROGRAM

JOB SPOTLIGHT - Soil and Plant Scientist

Median Earnings

\$24.03

Median Earnings Yearly

\$49,980

Projected Job Growth to 2030

+2% (Michigan)

ABOUT THE CAREER

This program is intended for students interested in the Agriculture Industry. Students will train for exciting careers including environmental technology, indoor and outdoor plantscaping, plant and animal science, pest management, crop production, greenhouse management and floral design. Students will also conduct various science experiments, practice customer relations and work on individualized and hands on projects which give the students real life experiences.

WHAT YOU'LL LEARN

In the first year, students will learn the basic fundamentals of Agriculture which encompasses greenhouse management, soil management, hydroponics, plant and animal physiology, customer service skills and landscaping. In the second year, students choose a specialized track in the career field that they desire and mentor at local businesses to get real on the job training.

INSTRUCTIONAL STAFF

Kathleen Kirkey and Abbey Smith-Moses

STUDENT CLUB

National FFA Organization

EDUCATIONAL OPPORTUNITIES

Students can earn six MSU credits, if they complete 2 years of the program and are active in the FFA Organization. Second year students can earn iCEV certificates in up and coming fields in the Agriculture Industry and or can get their Pesticide License through MDARD.



VETERINARY SCIENCE

ONE YEAR PROGRAM

JOB SPOTLIGHT - Veterinary Technologist

Median Earnings

\$18.79

Median Yearly Earnings

\$39,254

Projected Job Growth to 2030

+14% (Michigan)

ABOUT THE CAREER

Veterinary Science can lead to many different career paths such as: Veterinary Assistant, Kennel Attendant, Animal Groomer, Veterinary Technician, zoo keeper, Veterinarian and many others. Careers in this field assist in caring for the health of animals and work to protect and educate the public. The veterinary field is heavily based in sciences such as biology, chemistry and anatomy. The field can be very competitive and requires hard work.

WHAT YOU'LL LEARN

- Skills necessary to properly work with and handle live animals
- Train on equipment found in most Veterinary Clinics
- Learn terminology to be able to appropriately communicate in the industry.
- Disease diagnosis and develop treatment plans
- Comparative anatomy and physiology for multiple animal species
- Clinic and laboratory skills

INSTRUCTIONAL STAFF

Katie Holt and Amanda Timm

STUDENT CLUB

National FFA Organization

EDUCATIONAL OPPORTUNITIES

- Mentorships
- Internships
- High school academic credit
- College credit
- Certifications



JOB SPOTLIGHT - Commercial Designer

Median Earnings \$26.00	Projected Job Growth to 2030 +3% (Michigan)
Median Earnings Yearly \$54,080	

ABOUT THE CAREER

This program prepares students for careers related to graphic design, photography, printing and sign making.

WHAT YOU'LL LEARN

First year students will be introduced to photography, Adobe Photoshop, Adobe InDesign, typography, layout and design, color theory, printing and bindery operations, dye sublimation and screen printing. Second year students focus on more advanced photography, Adobe Illustrator, screen printing, wide format printing, lamination, vinyl cutting and applications. Mentorships and internships with area businesses expose students to the workplace environment.

INSTRUCTIONAL STAFF

Jake Dewar and Sydney Favero

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- Mentorships
- Internships
- High school academic credit
- College credit
- Field trips



JOB SPOTLIGHT - Web Designer

Median Earnings \$37.76	Projected Job Growth to 2030 +9% (Michigan)
Median Earnings Yearly \$78,540	

ABOUT THE CAREER

Step into the fast paced world of software engineering where you will create and maintain software and web systems, design and implement new features, evaluate and monitor system performance, and participate in challenging problem solving activities with other talented engineers.

WHAT YOU'LL LEARN

- Practical programming skills to develop complex software projects
- User facing and server-side web development
- Mobile application development
- 3D animation
- Multimedia production
- Troubleshooting and problem solving skills

INSTRUCTIONAL STAFF

Justin Kruskie

STUDENT CLUB

Business Professionals of America (BPA)

EDUCATIONAL OPPORTUNITIES

- Apprenticeships
- Mentorships
- High school academic credit
- College credit

This program is part of our BAISD EDGE Early Middle College. Juniors that attend schools in Bay or Arenac counties have the opportunity to participate in this program which allows them to earn both a high school diploma and either an advanced certificate, associate's degree, MEMCA certificate or 60 transferable credits at the same time. For more information please visit www.baisd.net/inside-baisd/district-support-services/postsecondary-education.



JOB SPOTLIGHT - Head Cook/Chef

Median Earnings

\$26.92

Median Earnings Yearly

\$55,990

Projected Job Growth to 2030

+31% (Michigan)

ABOUT THE CAREER

A wide variety of careers ranging from chef, butcher, event planner, restaurant critic, banquet manager, chocolatier and food chemist.

WHAT YOU'LL LEARN

Students will learn the basics of short order cooking and quantity cooking with a focus on teamwork, leadership skills, customer service and exceeding guest expectations. During the second year, the students will concentrate on culinary arts, baking or restaurant management. Mentorships and internships at area businesses expose students to the workplace environment.

INSTRUCTIONAL STAFF

Jennifer Honsinger, Laura Shann, Kylie Ricard and Kirby Burns

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- ServSafe certification
- ProStart certification
- High school credit
- College credit may be earned



JOB SPOTLIGHT - Information Security Analysts

Median Earnings

\$47.41

Median Earnings Yearly

\$98,620

Projected Job Growth to 2030

+28% (Michigan)

ABOUT THE CAREER

Cyber security careers are complex and many roles can be found with banks, retailers and government organizations. On the job, you can expect to safeguard an organization's files and network, install firewalls, create security plans and monitor activity. If a breach occurs, you'll be responsible for identifying the problem and finding a solution quickly.

WHAT YOU'LL LEARN

- Network Security
- Threat Detection
- Cyber Law & Ethics
- PC & Network Troubleshooting
- Digital Forensics
- Ethical Hacking
- Social Engineering

INSTRUCTIONAL STAFF

Michael M. Ricard

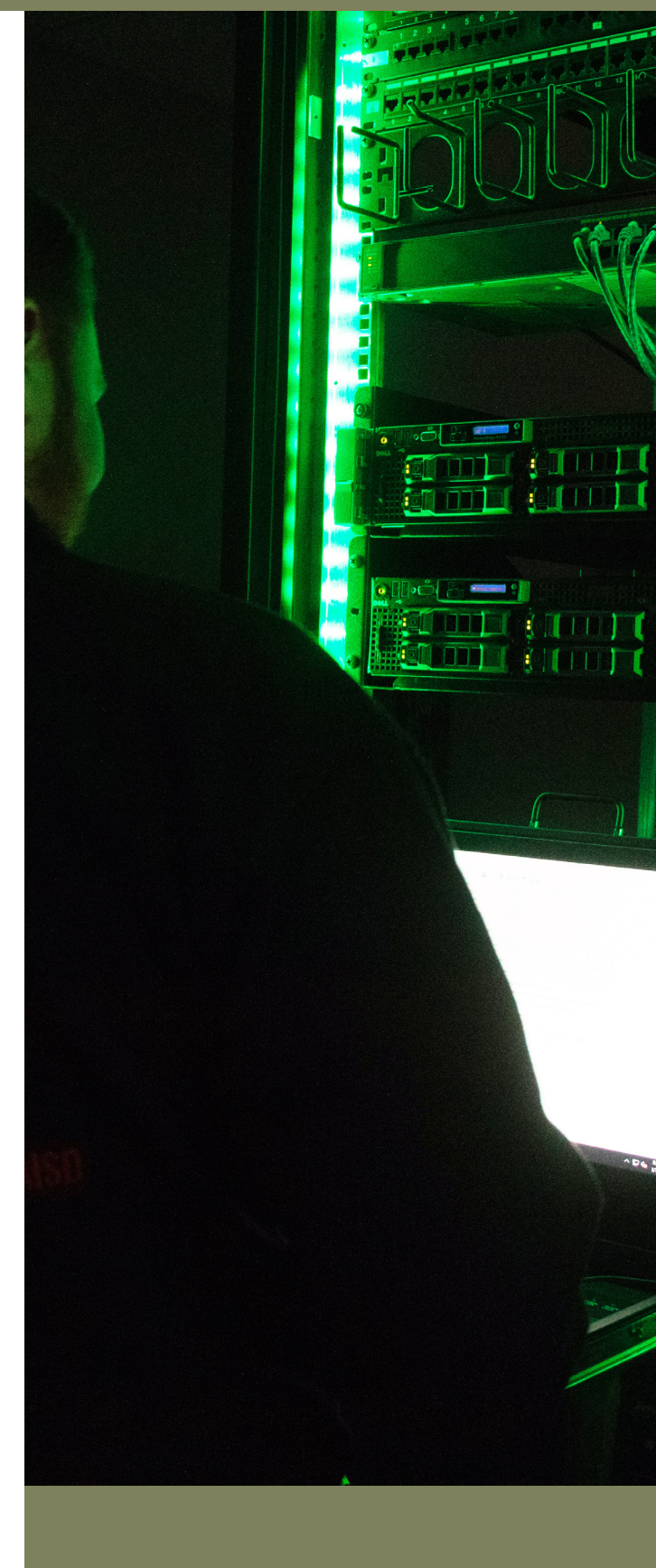
STUDENT CLUB

Business Professionals of America (BPA)

EDUCATIONAL OPPORTUNITIES

- Internships
- Industry Certifications
- Mentorships
- College Credit

This program is part of our BAISD EDGE Early Middle College. Juniors that attend schools in Bay or Arenac counties have the opportunity to participate in this program which allows them to earn both a high school diploma and either an advanced certificate, associate's degree, MEMCA certificate or 60 transferable credits at the same time. For more information please visit www.baisd.net/inside-baisd/district-support-services/postsecondary-education.



JOB SPOTLIGHT - Network and
Computer Systems Administrators

Median Earnings \$40.13	Projected Job Growth to 2030 +3% (Michigan)
Median Earnings Yearly \$83,470	

ABOUT THE CAREER

Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test Web site performance to ensure Web sites operate correctly and without interruption. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. May supervise computer user support specialists and computer network support specialists. May administer network security measures.

WHAT YOU'LL LEARN

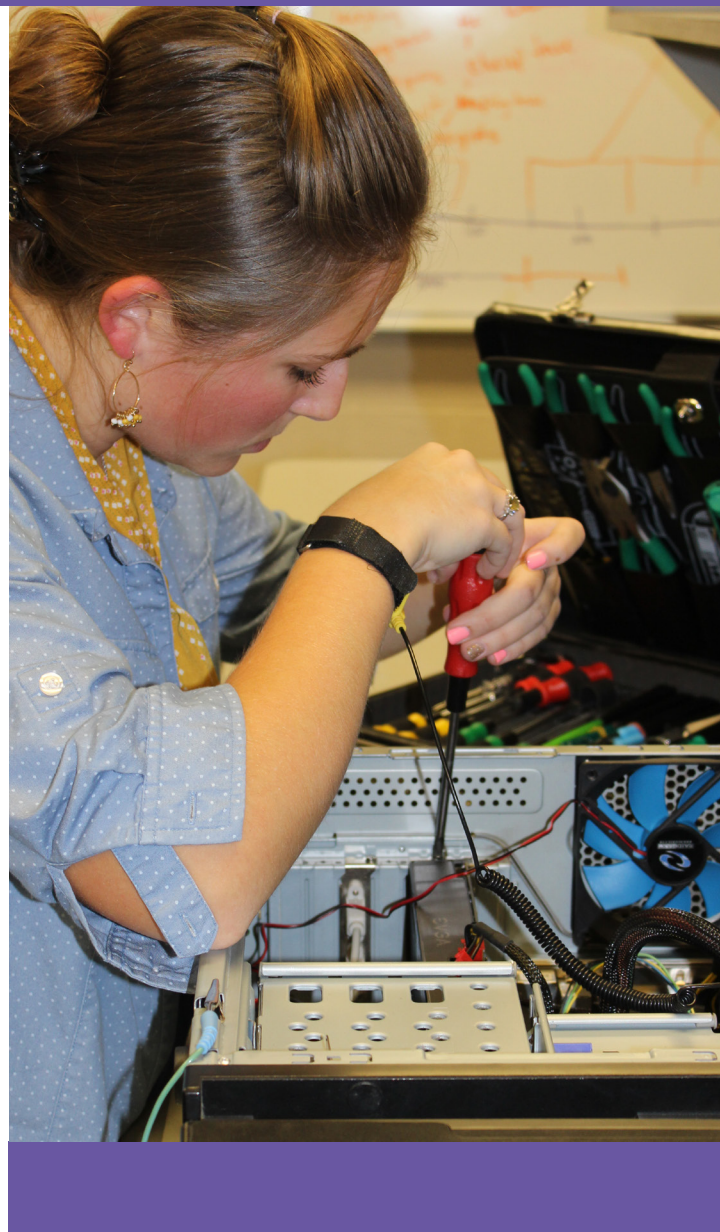
During the first year, students learn skills in PC hardware, operating systems, networking devices/designs/security via hands-on engaging curriculum. The skills taught are: PC troubleshooting, cabling, networking, computer diagnostics and multimedia. Second year students learn to configure routers & switches and run the student technical support help desk where they are exposed to real world experiences throughout the year. Mentorships and internships at area businesses expose students to the workplace environment.

INSTRUCTIONAL STAFF

Tammy J. Leavitt

STUDENT CLUB

Business Professional of America (BPA)



EDUCATIONAL OPPORTUNITIES

Students have the opportunity to earn industry recognized certifications such as CompTIA A+, CompTIA IT Fundamentals, TestOut PC & Network Pro and additional networking certifications. High school academic credit and college credit may be earned.

This program is part of our BAISD EDGE Early Middle College. Juniors that attend schools in Bay or Arenac counties have the opportunity to participate in this program which allows them to earn both a high school diploma and either an advanced certificate, associate's degree, MEMCA certificate or 60 transferable credits at the same time. For more information please visit www.baisd.net/inside-baisd/district-support-services/postsecondary-education.

JOB SPOTLIGHT - General and
Operations Managers

Median Earnings \$45.86	Projected Job Growth to 2030 +12% (Michigan)
Median Earnings Yearly \$95,380	

ABOUT THE CAREER

Marketing Managers Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.

WHAT YOU'LL LEARN

The Marketing & Management program is for students who are interested in owning or running a business. The course focuses on effective use of promotional tools such as social networking. Students will work with area business people to apply classroom instruction, create displays to promote activities and events, and participate in community service activities and fundraisers. Leadership development, team skills, professionalism and effective written and oral communication skills prepare marketing students for a variety of careers in Marketing.

INSTRUCTIONAL STAFF

Lisa Forrest

STUDENT CLUB

DECA



EDUCATIONAL OPPORTUNITIES

- Professional Selling
- Personal Financial Literacy
- Ethics and Legal Responsibility
- Teamwork and Collaboration
- Communication Skills
- Leadership Development
- Professional Development
- Credentials and College Credit Available

JOB SPOTLIGHT - Dental Hygienist

Median Earnings

\$34.93

**Median Earnings
Yearly**

\$72,660

**Projected
Job Growth
to 2030**

+11% (Michigan)

ABOUT THE CAREER

Dental professionals encourage patients to have good oral health. Prospective practitioners will receive a wide range of training in primary care and dental specialties. Clinical practice and professional services are offered by this healthcare professional. These individuals are highly trained in proper dental health and restoration while helping to maintain patients overall wellness.

WHAT YOU'LL LEARN

In the Dental Occupations Program, students will be introduced to all aspects of the dental professions. Students are prepared to work in a professional setting following industry standards. Hands on training will be completed in our state of the art dental lab using patient simulators. Opportunities will be provided with business and industry to experience operative/clinical dentistry while working side by side with dental professionals.

- Dental and Medical Terminology
- Dental Clinical Practices and Procedures
- OSHA, CDC and OSAP Guidelines
- Asepsis and Infection Control
- Technical Skills and Clinical Techniques
- Ethic and Legal Obligations for Healthcare
- Safety as a Healthcare Worker
- Interpersonal Relationships and Teamwork
- Employability Skills

INSTRUCTIONAL STAFF

Tracey McConkey

STUDENT CLUB

Health Occupations Students of America (HOSA)



EDUCATIONAL OPPORTUNITIES

- Mentorships/Internships
- High School Academic and College Credit
- OSAP/DANB Infection Control Exam-second year interns
- CPR/AED/First Aid-McLaren Bay Region
- Stop the Bleed-McLaren Bay Region

**JOB SPOTLIGHT - Forensic Science
Technician**

Median Earnings

\$27.64

**Median Earnings
Yearly**

\$57,490

**Projected
Job Growth
to 2030**

+19% (Michigan)

ABOUT THE CAREER

Biomedical science combines the fields of biology and medicine and is the foundation of knowledge for all health care professionals. Biomedical scientists conduct laboratory and scientific tests to support the diagnosis and treatment of disease.

Forensic science is the application of science to the law. Its purpose is to answer any question of interest brought to the legal system and communicate these findings to both scientists and non-scientists. Both written and oral communication of findings are important.

WHAT YOU'LL LEARN

Students will learn how to keep a scientific lab notebook and the following technical skills that are used in medical and/or forensic laboratories:

- Microscope skills
- Pipette skills
- Infection control
- Streaking agar plates
- Analyte concentration determination
- Blood typing
- Blood spatter analysis
- DNA extraction
- Gel electrophoresis

INSTRUCTIONAL STAFF

Theresa M. Scott, MSFS

STUDENT CLUB

Health Occupations Students of America (HOSA)



EDUCATIONAL OPPORTUNITIES

- Field trips
- Mentorships
- High school academic credit
- CPR, First Aid & Stop the Bleed certification
- Articulated credit

JOB SPOTLIGHT - Pediatrician

Median Earnings

\$85.62

Median Earnings Yearly

\$178,080

Projected Job Growth to 2030

+2% (Michigan)

ABOUT THE CAREER

Physicians who diagnose, treat, and help prevent children's diseases and injuries. Also Known as General Pediatrician, Group Practice Pediatrician, Medical Doctor (MD), Pediatrician, Pediatrician, Partner in Private Medical Practice, Physician, Chief, General Pediatric Clinic, Adolescent Medicine Specialist, Primary Care Pediatrician

WHAT YOU'LL LEARN

- Anatomy and physiology
- Collaborative team work
- Communication skills
- Health care safety
- Health care system
- HIPAA
- Interpersonal relationships
- Lifelong wellness
- Measuring vital signs
- Medical terminology
- Pathophysiology
- Professional behaviors

INSTRUCTIONAL STAFF

Justin Hacker and Christa Thorp

STUDENT CLUB

Health Occupations Students of America (HOSA)

EDUCATIONAL OPPORTUNITIES

- Field Trips
- Guest Speakers
- Hospital based partnership
- Mentorships
- Internships



- High school academic credit
- College credit
- STOP The Bleed training
- First Aid training
- CPR/AED certification
- EMT training for second year students

JOB SPOTLIGHT - Registered Nurses

Median Earnings

\$38.07

Median Earnings Yearly

\$79,180

Projected Job Growth to 2030

+8% (Michigan)

ABOUT THE CAREER

Nursing assistants help patients of all ages perform the most basic daily tasks. They work under a licensed nurse's supervision, and since they have extensive daily contact with each patient, they play a key role in the lives of their patients and in keeping the nurse up to date on vital information about the patients' conditions. This dignified career is very enticing due to its challenging tasks. Becoming a nursing assistant provides a great stepping stone into any health profession.

WHAT YOU'LL LEARN

- Nurse Aide Training Program (State of MI)
- Clinical Rotations with Direct Resident Care
- Medical Terminology
- CPR/First Aid Training/Certification
- Stop the Bleed Training
- Bloodborne Pathogen Training
- Vital Signs
- Employability Skills
- HIP AA/Confidentiality Training
- Healthcare Safety Training
- Healthcare Ethics
- True Colors
- Communication Skills

INSTRUCTIONAL STAFF

Traci Hoffman, Kathy Gorski,
Cindy Charbonneau and Kathy Hupfer

Student Club

Health Occupations Students of America (HOSA)



EDUCATIONAL OPPORTUNITIES

- Clinical rotations at area long-term care facilities
- Direct resident care
- In-facility Nurse aide certification
- College credit
- High school academic credit
- Assisted living facility exposure/job shadow

JOB SPOTLIGHT - Physical Therapist

Median Earnings

\$45.00

**Median Earnings
Yearly**

\$93,600

**Projected
Job Growth
to 2030**

+19% (Michigan)

ABOUT THE CAREER

Careers in Physical Therapy, Occupational Therapy and Sports Medicine are in demand and rewarding careers. According to the Bureau of Labor Statistics, job growth from 2018-2028 for physical therapists is 22%, 18% for occupational therapists, and 19% for Athletic Trainers, all much faster than average. A career in Physical Therapy, Occupational Therapy or Sports Medicine allows you to be creative, work with a wide variety of individuals in many different settings.

WHAT YOU'LL LEARN

- Anatomy and Physiology
- Medical Terminology
- Communication and teamwork Skills
- Employability skills
- Good Study Habits
- Time management skills
- Industry standard assessment skills

INSTRUCTIONAL STAFF

Elizabeth Wise

STUDENT CLUB

Health Occupations Students of America (HOSA)

EDUCATIONAL OPPORTUNITIES

- Mentorships
- High school academic credit
- College credit
- CPR Certification
- STOP the Bleed Training



**JOB SPOTLIGHT - Special Education
Teacher**

Median Earnings

n/a

**Median Earnings
Yearly**

\$65,960

**Projected
Job Growth
to 2030**

+2% (Michigan)

ABOUT THE CAREER

Jobs in education often lead to teaching, but roles in early childhood education, counseling, social work, administration and community educators also are an option. In fact, the field of education is so varied that there are hundreds of different educational careers that can be accomplished with a degree in education. These jobs can be based online, in a classroom, in other countries or even in centers or homes. Even within teaching, the subject areas and age groups are so varied that a range of options exist. Below are several areas that can be utilized for employment and educator careers when entering the world of education.

WHAT YOU'LL LEARN

This program is for students interested in careers related to education. Students explore a variety of career opportunities by participating in a variety of work experiences in childcare, preschool, elementary and middle schools, and special education. Students have the opportunity to participate in several workshops, conferences, field trips and other volunteer activities in the community.

INSTRUCTIONAL STAFF

Amy Hesse

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- Opportunity to Earn College Credits
- Ethics and Legal Issues
- Theories of Education
- Lesson Planning
- Licensing Procedures



- Professional Guest Speakers
- Field Trips Collaboration with other Career Center Programs
- Collaboration with Community child care centers, preschools, and local elementary and middle schools.
- CDA (Child development Credential) specializing in infants and toddlers or preschool
- MiYDA (Michigan Youth Development Associate) certificate and credential

JOB SPOTLIGHT - Cosmetologist

Median Earnings \$17.05	Projected Job Growth to 2030 +16% (Michigan)
Median Earnings Yearly \$35,470	

ABOUT THE CAREER

Cosmetologists provide beauty services such as caring for the hair, beautifying the face and grooming hands and nails.

WHAT YOU'LL LEARN

This course prepares students for the state cosmetology examination and licensing process. The clinical salon lab environment provides hands-on training with customers and establishes clientele. (NOTE: This course requires full-time attendance during the summer between junior and senior year.)

INSTRUCTIONAL STAFF

Instructional staff is contracted through local beauty academies

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

Licensing, high school academic credit and college credit may be earned.



JOB SPOTLIGHT - Police Officer

Median Earnings \$31.23	Projected Job Growth to 2030 +8% (Michigan)
Median Earnings Yearly \$64,950	

ABOUT THE CAREER

Our society relies on public safety professionals every day in different realms. There is a wide array of criminal justice related employment opportunities. Two consistent themes in this career field, is having positive public communication and willingness to help people.

WHAT YOU'LL LEARN

This program exposes the student to various careers in the courts, legal aid, law enforcement, security, corrections (prison and jail), and other emergency services. Students engage in hands-on activities such as handcuffing and prisoner transport, fingerprinting, self-defense, report writing, evidence collection, search warrants, and search and seizure lessons. Students will take tours of courts, domestic shelters, police departments, jails, and prisons. The class will have presentations from guest speakers who are currently working in the law enforcement field.

INSTRUCTIONAL STAFF

Duane Bean II, Retired Chief of Police

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

First Year students have one of two mentorships with a criminal justice entity. Second year students have the opportunity to have long-term mentorships with multiple criminal justice entities. First year students have the opportunity to earn seven (7) articulation credits through Delta College's Criminal Justice Program.



AUTO MECHANICS

TWO YEAR PROGRAM

JOB SPOTLIGHT - Automotive Engineer

Median Earnings

\$45.90

Median Earnings Yearly

\$95,470

Projected Job Growth to 2030

+10% (Michigan)



EDUCATIONAL OPPORTUNITIES

- Michigan Motor Vehicle Competency Tests
- ASE Student Certifications
- Ford ACE training
- College Articulation Credit

This program is part of our BAISD EDGE Early Middle College. Juniors that attend schools in Bay or Arenac counties have the opportunity to participate in this program which allows them to earn both a high school diploma and either an advanced certificate, associate's degree, MEMCA certificate or 60 transferable credits at the same time. For more information please visit www.baisd.net/inside-baisd/district-support-services/postsecondary-education.

ABOUT THE CAREER

An automotive technician could be employed by a dealership or an independent garage, they could also be self-employed and run their own automotive repair business. Automotive technicians can specialize in specific areas of repair such as brakes and steering and suspension, or electrical and driveability concerns. Normally, automotive Technicians employed by an independent garage will make repairs on different types of vehicles offered by manufacturers and over a broad range of age. Typically in a dealership setting, they may also specialize in a very specific brand and work on newer model year automobiles.

WHAT YOU'LL LEARN

Students will learn automotive brakes, engine repair, engine performance, and automatic transmissions, electrical, steering and suspension, manual drivelines, and heating and air conditioning over the course of two years. The automotive program at BAISD is accredited through the ASE education foundation, and uses the latest up to date equipment and vehicles to learn on. Students work on a wide range of lab vehicles, student vehicles, and customer vehicles throughout the school year. Students will go on field trips, have exposure to guest speakers, mentorships, and internships. The automotive programs offers certification testing in the form of student ASE tests, and the Michigan Motor Vehicle Competency tests. The automotive program offers articulation credit and high school academic credit for the 4th year of reading and math.

INSTRUCTIONAL STAFF

Dwayne Gilbert, Francis Schlaud and Antonio Vega

STUDENT CLUB

SkillsUSA

BUILDING TRADES I & II

TWO YEAR PROGRAM

JOB SPOTLIGHT - Construction Manager

Median Earnings

\$48.54

Median Earnings Yearly

\$100,950

Projected Job Growth to 2030

+9% (Michigan)



ABOUT THE CAREER

If you are an ambitious, energetic, reliable person that likes to work with others, then building trades may be the right fit for you. People in this industry have numerous occupations to choose from. These occupations will require a high school diploma or a GED. They also require unique skills that can be obtained through training or apprenticeship programs. Skilled construction workers help build office buildings, homes, schools, roads, and other structures.

WHAT YOU'LL LEARN

Building Trades 1 will learn basic skills of residential home construction through exciting projects centered on units in carpentry, masonry, and electrical wiring.

Building Trades 2 students will apply their skills while building a residential home in the community. Students will experience a real-world workplace environment. SKY TRAK certification and OSHA 10 hour certification may be earned.

INSTRUCTIONAL STAFF

Building Trades 1: Brad Schabel and Jacob Potter
Building Trades 2: Brian McGee and Jason Leppek

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- Apprenticeships
- Mentorships
- High school academic credit
- College credit
- SKY TRAK certification
- OSHA 10 hour certification

This program is part of our BAISD EDGE Early Middle College. Juniors that attend schools in Bay or Arenac counties have the opportunity to participate in this program which allows them to earn both a high school diploma and either an advanced certificate, associate's degree, MEMCA certificate or 60 transferable credits at the same time. For more information please visit www.baisd.net/inside-baisd/district-support-services/postsecondary-education.

JOB SPOTLIGHT - Diesel Technician

Median Earnings

\$24.50

Median Earnings Yearly

\$50,960

Projected Job Growth to 2030

+13% (Michigan)

ABOUT THE CAREER

Heavy equipment moves the world! Everything you purchased this week, in some way shape or form, was impacted by a diesel engine. Whether it was the farmer's tractor, the trucker's truck, or the miner's shovel. Rest assured the world needs Diesel and Heavy Equipment and the Diesel / Heavy Equipment world needs you. These careers span from technicians to operators and everything in between. As a result, the demand is high for high caliber individuals that are not afraid to move the world.

WHAT YOU'LL LEARN

Students will develop an understanding of how to safely operate, identify, repair, and maintain various forms of heavy equipment. They will develop an understanding of how diesel engines work with powertrains, hydraulics, electrical, and electronic systems to do the real heavy work.

INSTRUCTIONAL STAFF

Bill Smithingell and Ethan Houghten

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

Apprenticeships, internships, and job shadows are highly encouraged and structured. High school academic credit, college articulation, forklift certification, and feedback from industry experts that provide real-time industry needs to ensure students have the highest probability of being successful in the industry.



JOB SPOTLIGHT - Robotics Technician

Median Earnings

\$26.24

Median Earnings Yearly

\$54,580

Projected Job Growth to 2030

+0% (Michigan)

ABOUT THE CAREER

Electronics and Robotics is a hands-on career that uses scientific knowledge and advanced technology. Career pathways include Electrical Engineering, Electronics Technician, Wind Turbine Technician, Electrical Linesman, Electrician, Avionic Technician, and Radio and telecommunications Equipment Installer or Repairers.

WHAT YOU'LL LEARN

Students learn about electricity, computers, solid state and digital electronics, robotics and automation, motor controls, residential wiring, wind turbine and solar panel installation and mobile electronics.

Students work on projects such as building and programming a robot and building a radio receiver.

INSTRUCTIONAL STAFF

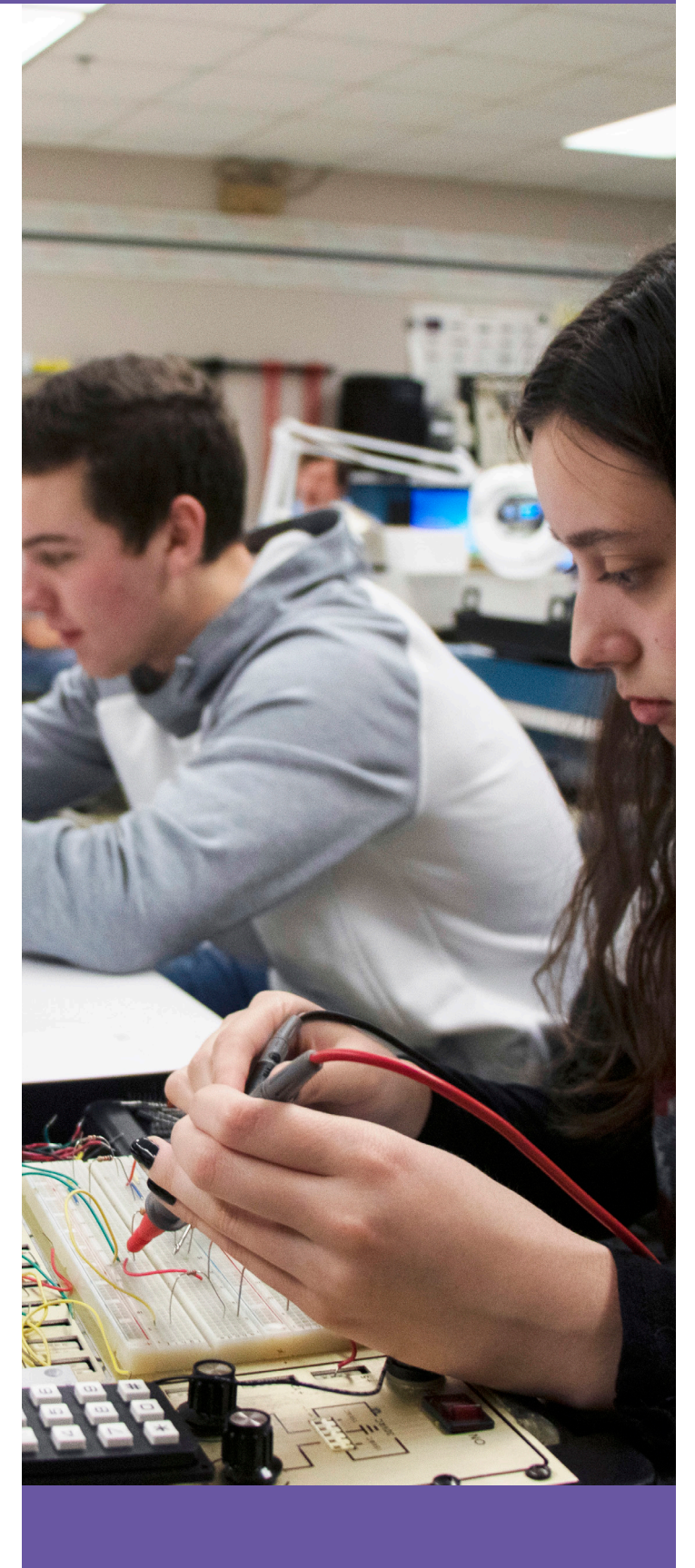
David Mullin

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- Apprenticeships
- Mentorships
- High school academic Credit
- College credit



JOB SPOTLIGHT - Mechanical Engineers

Median Earnings \$45.90	Projected Job Growth to 2030 +10% (Michigan)
Median Earnings Yearly \$95,470	

ABOUT THE CAREER

Engineering continues to be an in-demand career path. If you are someone who likes to design, problem solve and figure out how things work, the engineering world is looking for new, fresh talent.

WHAT YOU'LL LEARN

Engineering Drafting students will learn about CAD (computer-aided-design). This includes industry-standard software like AutoDesk Inventor, SolidWorks and AutoCAD. They will work individually on assignments and collaborate in a team environment on a variety of design projects. In addition, the program has different types of 3D printers that will provide the students experience with a growing technology, as they see their projects come to life.

INSTRUCTIONAL STAFF

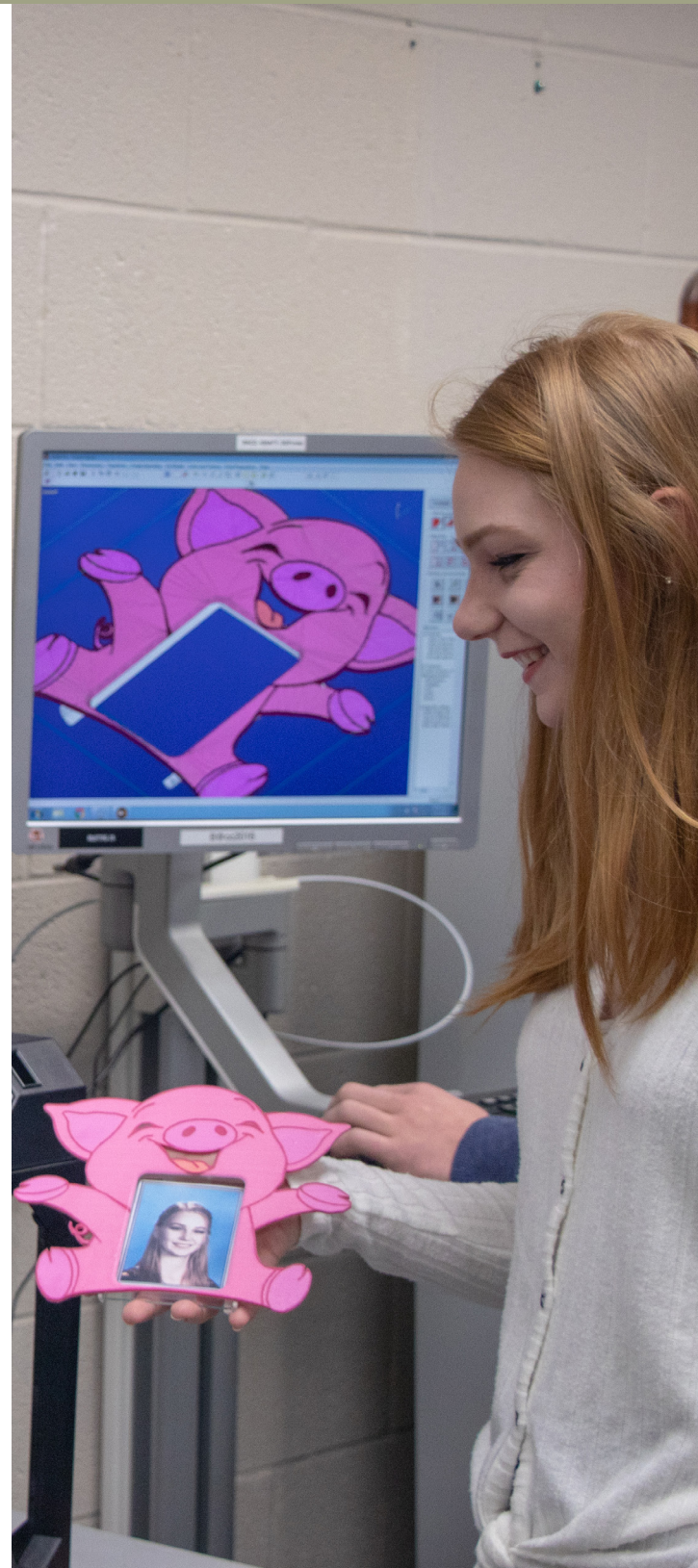
Steven Lanczak

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

The program takes several field trips to businesses, expos and colleges. These allow students to see things that cannot be provided in the classroom. In addition, seniors will complete a multi-day job shadow with engineers from Bay City's Consumers Energy plant.



JOB SPOTLIGHT - Machinists

Median Earnings \$22.15	Projected Job Growth to 2030 +11% (Michigan)
Median Earnings Yearly \$46,070	

ABOUT THE CAREER

Machinists Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.

WHAT YOU'LL LEARN

Students will learn skills necessary to become an apprentice skilled tradesperson. Students will set up and operate various metalworking machines and produce projects from engineered drawings. Advanced students will work with Computer Numerical Control (CNC) and CAD/CAM software.

INSTRUCTIONAL STAFF

Jamison Stoike and Brayden Barber

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

Field trips to Delta College or Ferris State University. Students will be able to earn certification with the National Institute for Metalworking Skills (N.I.M.S.), high school academic credit and college credit may be earned.



JOB SPOTLIGHT - Welder

Median Earnings

\$20.31

Median Earnings Yearly

\$42,230

Projected Job Growth to 2030

+10% (Michigan)

ABOUT THE CAREER

Career pathways include construction, manufacturing, inspection and sales. These combined provide several high demand, high paying jobs. On the job conditions are hot, cold, dirty and dangerous.

WHAT YOU'LL LEARN

- Basic shop and fire safety
- SMAW, GTAW, and GMAW welding processes
- Oxy-Fuel cutting processes
- Plasma cutting
- Blueprint interpretation
- Industrial Shear
- Electric hand held/pedestal grinder

INSTRUCTIONAL STAFF

Corey Pawlak and Garrett Wojcik

STUDENT CLUB

SkillsUSA

EDUCATIONAL OPPORTUNITIES

- Apprenticeships
- Mentorships
- High school academic Credit
- College credit
- American Welding Society qualifications



COLLEGE CREDITS AND CERTIFICATIONS

Two of the ways the Career Center is able to help students make the successful transition from high school to college or work is by offering college credit and industry standard certifications. Currently, all of the programs offer either one or both of these opportunities. To receive college credit or certifications, a career center student would need good attendance and good grades in their career center program, pass the certification exam and be able to demonstrate the ability to bypass college level courses. Students earning college credit can save tuition costs, shorten the time they spend in college and reduce the duplication of courses.

*High School Academic Credit may also be available.

College credit is available at the institutions listed below:



COLLEGE CONNECTIONS

Career Center students are college prepared. Delta College Admissions Representatives offer assistance to students every Monday at the Career Center.

Students interested in attending a four year University have the opportunity to meet with SVSU and Northwood University Admissions Representatives at the Career Center once a month.

Many other college and university representatives visit the Career Center throughout the school year to share information with students and help assist them in making decisions about their future.

MENTORSHIPS/INTERNSHIPS

Mentorships are available to all Career Center students. These placements are meant to be short-term, lasting up to 3 weeks, and are meant for students to see the relationship between classroom training and industry expectations.

Internships are available to our second year students and are meant to provide a more in-depth look into



industry. These placements may be paid with the goal of long-term employment. These students generally will start out on mentorships, and it will grow into an internship opportunity. Characteristics of an internship:

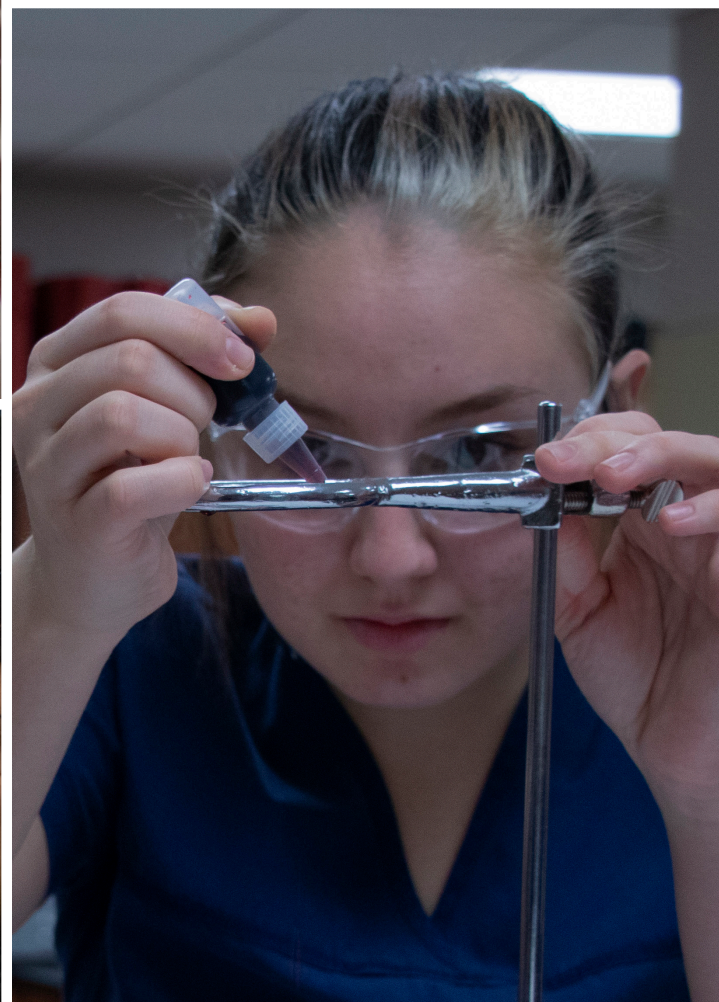
- Paid hourly employees
- Students are covered by the employer's liability insurance

STUDENT CLUBS

The Bay-Arenac ISD Career Center encourages participation in national student organizations including NTHS (National Technical Honor Society), BPA (Business Professionals of America), HOSA (an association of health and science students), DECA (an organization of marketing students), SkillsUSA and FFA. Last year over 900 students and staff members participated in student clubs.

Student organizations are unique because the activities and competitions relate directly to what students are taught in their program area. Students further develop technical skills and build leadership qualities.

CAREER & TECHNICAL EDUCATION IS HANDS ON LEARNING



CAREER READY and COLLEGE PREPARED





EARLY MIDDLE COLLEGE SUMMARY

- Students must apply and be coded as Early Middle College students in the fall of their 11th-grade year.
- Attendance, grades, positive behavior, assessment results, and involvement in extracurriculars are considered in the application.
- Students take some college courses, and/or their Career Center program, during the 11th & 12th grades.
- Students take college courses full time in their 13th year (transportation is up to the student).
- The Accuplacer test may determine placement.
- The program must reflect the student's EDP.
- Students can walk with their graduating class (diploma will be held until after their final year is completed).

EARLY/MIDDLE COLLEGE PROGRAMS DELTA COLLEGE

Associate Degrees (Planned by the Local District)

- CTE: Residential Construction-Advanced Certificate
- CTE: Residential Construction-AAS (Associate of Applied Science)
- CTE: Automotive Service Technology-Advanced Certificate
- CTE: Automotive Service Technology-AAS

EARLY/MIDDLE COLLEGE PROGRAMS DAVENPORT UNIVERSITY

- CTE: Computer Information Systems - AAS
- CTE: Networking Technology - AAS
- CTE: Cyber Defense - AAS

*Additional programs will be added as their program plans are developed and approved.

BAY- ARENAC ISD EARLY MIDDLE COLLEGE FAQ

An Early Middle College (EMC) is designed to offer students the opportunity to earn a high school diploma and either an associate degree, advance certificate, the Michigan Early Middle College Association (MEMCA) technical certificate, or 60 transferable college credits at the same time. These credits may be used toward a four-year degree from a Michigan public or private university, an advance certificate, an associate degree from a Michigan junior college or community college. Over 100 similar programs are already being offered throughout Michigan. BAISD is proud to partner with Delta College and Davenport University to bring this innovative opportunity to Arenac and Bay Counties.

Q: How many college credits can be earned through the BAISD Early Middle College program?

A: The number of credits a student can earn depends on the type of program they're enrolled in and the goals of each student. Students are expected to earn at least 15, but it is possible to earn up to 60 transferable college credits!

Q: Do I have to be on my high school campus an extra year?

A: No. You will be on a college campus (or virtual campus) the year after your senior year.

Q: What does my senior year look like?

A: Students who are enrolled in a Career Center program will be at the Career Center half the day and taking college classes the other half. Students who take the Associates Degree path, will spend half their day at their high school and the other half taking college classes.

Q: How do I know my student is prepared to enroll with the Early Middle College Program?

A: BAISD Early Middle College students will need to meet minimum eligibility requirements. In addition, all students are required to take the English and Math Guided Self-Placement (GSP) surveys prior to enrolling. School counselors will also have input on a student's readiness to participate in the program.

Q: Can students in Early Middle College play high school sports?

A: Yes! Students may participate in high school sports through their 12th grade year subject to the same eligibility requirements as all other students and if scheduling permits.

Q: Do BAISD Early Middle College students graduate with their senior class?

A: Students participate in their senior year activities and can walk with their graduating class. However, their diploma is given after their fifth year where they complete one final high school class, meeting the Michigan Merit Curriculum requirement to have a math or math-related class in the final year of high school.

Q: Who pays for tuition, fees and books for the Early Middle College courses?

A: Each local school district covers all tuition, fees, and textbook costs for students enrolled. Students enrolled in EMC can graduate from high school and college debt-free!

Q: Do students follow the local district schedule or the college schedule?

A: Both. Classes at the local high school and Career Center will follow the same schedule and calendar as the rest of the district, while college classes will follow the college schedule and calendar. It is important to note that there will be differences in the start and end dates, as well as some vacation dates.

Q: What about transportation?

A: Families may be responsible for providing transportation. Beginning Fall of 2023, some of the college courses will be offered at the Career Center campus.

Q: Will students have to take night classes?

A: It is likely that students will need to take one or more of their college classes outside the traditional high school day schedule, so families should be prepared for this.

Q: Are the college classes specially tailored for high school students?

A: Early College students will be in regular college classes open to all college students. Discussions, assignments, and research requirements will be at the discretion of the college instructor and may include adult or controversial subjects.

Q: What support is available for high school students as they navigate the world of college?

A: Students in the BAISD Early Middle College cohort will have access to their local high school counselors, college academic advisors, as well as the BAISD EMC staff. Also, there are required orientations to help prepare students to be successful and support them on this journey.

Q: Does the BAISD Early Middle College Program follow the Michigan Merit Curriculum?

A: Yes. Students complete all of the requirements established by each local school district to meet the requirements of the Michigan Merit Curriculum in order to receive a high school diploma.

Q: How can I learn more?

A: Contact Eric Allshouse, BAISD EDGE Coordinator, at allshousee@baisd.net or (989) 460-9106 Ext. 6280, or speak with your local high school or Career Center counselor.



Students from 21 high schools enjoy spending half of each school day at the Career Center.

GUIDANCE SERVICES

Counselors are available to provide academic, career and personal guidance and counseling to all Career Center students.

Colleen Clevenger, Tina Bersano, and Dave Urlaub
Counselors

WORK-BASED LEARNING

Work-Based Learning Coordinators assist students with employability skills and career development. Students have the opportunity to experience unique job-related situations through established partnerships in business and industry. Some on-the-job training opportunities may include internships, mentorships and apprenticeships.

Kellie Seward and Tiffany Sheppard, Work Based Learning Coordinators

CLASSROOM SUPPORT SERVICES

Student Support Specialists provide assistance to students who may need help with academic and technical skills.

DISABILITY SERVICES

Students with any type of disability, from a broken leg to a learning disability, can receive assistance from one of our Teacher Consultants. Teacher Consultants work closely with our sending schools to help ensure delivery of existing plans of individual support.

David Wissner, Teacher Consultant



CAREER CENTER

4155 Monitor Road
Bay City, MI 48706
Phone: 989.686.4770

Revised Fall 2023

Administrative Services

Brian DuFresne, Principal/CTE Director | **Brian McBride**, Assistant Principal | **Kathy Dardas**, Assistant Principal

Bay-Arenac ISD Board of Education

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Policy Against Discrimination and Retaliation (Title II, Title VI, Title VII, Title IX, Section 504)
The District Board of Education complies with all federal, state and local statutes and laws prohibiting discrimination and retaliation and expressly prohibits unlawful discrimination or unlawful retaliation in any form. Specifically, Bay-Arenac ISD provides equal employment opportunity and treatment regardless of race, religion, color, gender, age, national origin, disability, height, weight, or any other orientation status protected by federal, state or local law.