

# Belleville High School



**Program of Studies**  
**2023 - 2024**

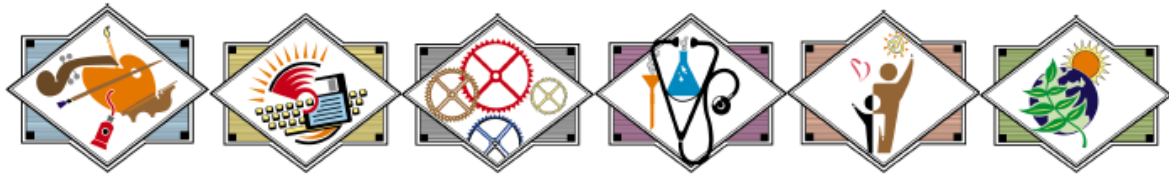


# Table of Contents

Michigan Career Pathways	4
Career and College Planning	5
College Entrance Testing	5
Courses Required for College Entrance	6
College Preparation Activities	7
Graduation Requirements	9
NCAA Eligibility	10
Special Programs	11
Course Descriptions	15
Special Program Descriptions	46
<i>Belleville Early College</i>	47
<i>Belleville New Tech</i>	48
<i>Belleville Teacher Cadet</i>	51
<i>Dual Enrollment</i>	52
<i>Early College Alliance: ECA @ EMU</i>	53
<i>Geographic Information Systems (GIS)</i>	54
<i>MIAT</i>	56
<i>NJROTC</i>	58
<i>William D. Ford Career Technical Center</i>	60

# Michigan Career Pathways

Planning your future career begins by carefully planning your high school program of study. Think about your future goals when you select courses for next year. Are you planning to work after high school? What courses should you take to fulfill your college admission requirements? Consider carefully your aptitude, interests, strengths, and weaknesses. Students are encouraged to discuss all these factors with your counselor, teachers, and parents. Each of these resources can give you helpful information that will assist you in making good decisions about your program at Belleville High School and how to prepare for your brightest future.



Michigan Career Pathways	U. S. Department of Education Career Clusters
<b>Arts &amp; Communications</b>	Arts, A/V Technology & Communications
<b>Business/Management/Marketing &amp; Technology</b>	Business, Management & Administration Finance Hospitality & Tourism Information Technology Marketing, Sales & Service
<b>Engineering, Manufacturing &amp; Industrial Technology</b>	Architecture & Construction Manufacturing Science, Technology, Engineering & Mathematics Transportation, Distribution & Logistics
<b>Health Sciences</b>	Health Sciences
<b>Human Services</b>	Education & Training Human Services Law, Public Safety & Security Government & public Services
<b>Natural Resources &amp; Agriscience</b>	Agriculture, Food & Natural Resources

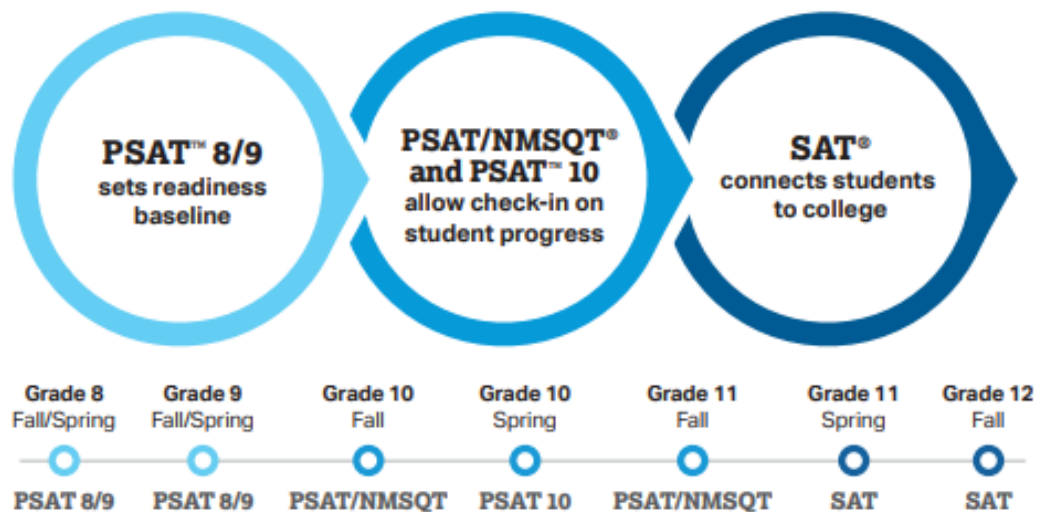
# Career and College Planning

The Counseling Department offers a variety of resources for students and parents in planning for their future career and college. Our college advisor meets with students, supporting completion of college and financial aid applications.

Students may have developed a career portfolio by 8th grade, and may revisit career choices throughout high school.

## Testing required for College Entrance

The SAT® Suite of Assessments is an integrated system of tests that measure what students are learning in class, and what they need to succeed in college.



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

**Preliminary Scholastic Aptitude Test (PSAT):** This test will give the student an impartial assessment of his/her ability to do college work. It will allow us to identify growth areas in the 9<sup>th</sup> and 10<sup>th</sup> grades to target before students take the SAT in the spring of their Junior year.

**Preliminary Scholastic Aptitude Test (PSAT)/National Merit Scholarship Qualifying Test (PSAT/NMSQT):** Normally this test will be given to 11<sup>th</sup> graders in the fall. It will allow us to identify growth areas to target with students before the spring SAT, and high scores may qualify students for national scholarship money.

**Scholastic Aptitude Test (SAT)/Michigan Student Test of Educational Progress**

**(M-STEP):** This test is intended to measure performance in core curricular areas. The State of Michigan requires administration of this test. Scholastic Aptitude Test (SAT): The SAT is a multiple choice test made up of separately timed reading, writing and language, math, and essay sections. Performance across these sections have been shown to be related to successful academic performance in college. Students must complete this test during the Spring of their Junior year as a BHS graduation requirement. Additionally, students may register and take the SAT at their own expense through the College Board (Note: BHS is not a SAT testing site.)

**ACT:** American College Testing (ACT) is a college admissions test that measures what students have learned in high school in order to determine college readiness (Note: BHS is not an ACT testing site.)

**Advanced Placement (AP):** Students interested in receiving advanced placement credit toward college requirements should contact their respective counselor. ***Students will be required to sign-up for and take the AP Exam.***

Courses required for College Entrance	
English	<i>4 credits</i>
Math	<i>4 credits</i>
Science	<i>3 to 4 credits</i>
Social Studies	<i>3 credits</i>
Foreign Language	<i>2 to 3 credits (same language)</i>

The Arts, Computer Literacy, and Technology courses are also highly recommended.

## Recommended College Preparation Activities

Fall/Winter	Winter/Spring	Summer
<i>8<sup>th</sup> Grade</i>		
Think about college as an important part of your future. Discuss your thoughts and ideas with your family and with people at school. Develop strong study habits.	Continue to do your best in school and on standardized tests. If you are having difficulty, don't give up—get help from a teacher, tutor, or mentor. Plan to take challenging and interesting classes to prepare for high school.	Become involved in school- or community-based activities that let you explore your interests and learn new things. Participate in programs at neighboring colleges and/or universities.
<i>9<sup>th</sup> Grade</i>		
Take challenging classes in core academic subjects. Get involved in school- or community-based activities that interest you or let you explore career interests. Remember—it's quality (not quantity) that counts. Talk to your parents about a plan to pay for college.	Start a list of your awards, honors, paid and volunteer work, and extracurricular activities. Update it throughout high school. Ask your counselors or teachers about what Advanced Placement courses are available, whether you are eligible, and how you enroll. Revisit your career goals.	Get involved in school- or community-based activities that interest you or let you explore career interests. Consider working, volunteering, and/or participating in academic enrichment programs, summer workshops, and camps with specialty focuses such as music, arts, or science. Remember—it's quality (not quantity) that counts.
<i>10<sup>th</sup> Grade</i>		
Develop strong study habits, analytical, abstract and complex thinking skills.	Meet with your school counselor or mentor to discuss colleges and their requirements. Research majors that might be a good fit with your interests and goals based on your Michigan Career Cluster.	Plan to use your summer wisely: Work, volunteer, take a summer course (away or at a local college). Participate in enrichment, test prep, or summer programs related to your career interest.

Fall/Winter	Winter/Spring	Summer
<i>11<sup>th</sup> Grade</i>		
Take the PSAT/NMSQT. You must take the test in 11th grade to qualify for scholarships and programs associated with the National Merit Scholarship Program.	Register for and take college entrance tests. Determine which tests are required for admission into the colleges/universities you are interested in (SAT and/or ACT). Prepare to ask for letters of recommendation. Identify scholarships you are eligible for.	Narrow down the list of colleges/universities you are interested in. Research and/or request information regarding the application process (online, CommonApp, etc.) and early decision deadlines. Plan to visit college campuses. Verify that you have taken all required standardized tests for the application. Make a plan to pay for college. Begin earning required Service Learning Hours.
<i>12<sup>th</sup> Grade</i>		
Apply to the colleges you have chosen. Prepare to complete FAFSA beginning October 1. Register for and take college entrance tests. Complete scholarship applications.	Complete scholarship applications. Review college acceptances, including financial aid packages. Visit college campuses that have invited you to enroll. Submit required materials and pay deposits to the college/university you have chosen (May 1 is a common deadline).	Attend college orientation and take entrance exams. Prepare for and anticipate financial costs for travel, food, lodging, books, and basic necessities.

## Financing College

Determining how to pay for college is important for every family. The Counseling Department will host a Financial Aid night, FAFSA night, and welcome students to the computer labs to complete the FAFSA application. It is imperative that parents and students take advantage of the sessions.

There are several ways a student can finance their education including but not limited to:

- Grants: college, state, and/or federal (usually income driven based on federal student aid application-FAFSA)
- Scholarships
- Work-study
- Loans: student, family, subsidized, and/or private

Resources:

- Federal Student Aid: <https://studentaid.gov/>
- The Common Application-How to Pay for College: <https://www.commonapp.org/how-pay-college>



## Graduation Requirements

The following graduation requirements are based on a full program and six-hour day. If the school day is shortened at any time, the Board of Education will revise and adjust these requirements. Students will be notified of any changes by their guidance counselor. A senior must have earned a minimum of 22 credits, satisfied the Michigan Merit Curriculum criteria, completed state required tests, and a satisfactory disciplinary record in order to participate in the graduation ceremony.

### Required Courses:

English (4 credits)	English 9, English 10, English 11, and English 12
Mathematics (4 credits)	Algebra I, Geometry, Algebra II, and Senior Math Experience
Science (3 credits)	Biology, Chemistry/Physics, and Additional Science
Social Studies (3 credits)	US History and Geography, Government, Economics, and World History
World Language (2 credits)	Spanish or French
Physical Education (.5 credit)	See Program of Studies
Health (.5 credit)	
Visual, Performing, or Applied Arts (1 credit)	

**Advanced Placement (AP) Courses:** Biology, Calculus AB, Calculus BC, Chemistry, Computer Science, Computer Science Principles, Government, English: Language & Composition, English: Literature & Composition, Physics, Psychology, Statistics, U.S. History, and World History.

Advanced Placement Courses as approved by the College Board are rigorous, college-level high school courses where students can earn college credit. Students commit to one full year of challenging coursework that requires extra time and study compared to traditional honors courses. Students may also be required to complete summer homework prior to beginning the course in the fall. ***Students will be required to sign-up for and take the AP Exam.***

### Required Tests:

**SAT/M-STEP mandate:**The state requires the administration of the SAT/M-STEP. The completion of this test is a BHS requirement for graduation. Students take the SAT/M-STEP test in the spring of their 11<sup>th</sup> grade year.



## **NCAA Eligibility Requirements**

Students who are interested in athletics at the college level, must abide by the National Collegiate Athletic Association in order to be eligible. It is important to understand that you are a student first and an athlete second. Many colleges will look at your GPA and test scores expecting you to maintain their academic standards. To qualify for NCAA, students must complete 16 core classes in English, math, social sciences, natural/physical science, and foreign language. Additionally, students must earn at least a 2.3 GPA in the core courses and earn an SAT combined score or ACT sum score matching your core course GPA.

Planning for college athletics should begin freshman year by talking with your counselor about the right course of action to take and by also forming good study habits to balance academics with athletics. As a sophomore you should register at [eligibility.center.org](http://eligibility.center.org). Take the ACT or SAT as a junior, make sure you are on course to graduate, and have your transcripts uploaded to the NCAA. As a senior, make sure to take the SAT or ACT again if necessary, complete all required courses, and submit official transcripts.

For more information, visit: [www.ncaa.org](http://www.ncaa.org)

## ***Special Programs***



### ***Belleville Early College***

The Belleville Early College Program is a hybrid high school and college program that allows students to earn a Belleville High School Diploma and a Wayne County Community College Associate's degree in a three-year accelerated program. *More information on page 47.*



### ***Belleville New Tech***

The mission of Belleville New Tech (BNT) is to re-imagine teaching and learning through the integrated use of technology, the rigorous and relevant use of project-based learning, and a culture that is student-centric and based on trust, respect, and responsibility. In Belleville New Tech students are prepared for the future. *More information on page 48.*



### ***Teacher Cadet Program***

The Teacher Cadet program provides an opportunity for students to explore the field of education and work directly with young students. Teacher Cadet students learn a wide range of education theory and practice. After completing pre-placement activities, cadets are placed in an internship at The Early Childhood Center of Van Buren Public Schools. *More information on page 51.*



## ***Belleville Online School***

Belleville Online School (B.O.S.) Program is Van Buren Public School's 100% Seat-Time Waiver Program that is open to students enrolled in secondary education. We offer students access to alternative learning options and those seeking the opportunity to continue working on a high school diploma without physically attending the school facility. Students who desire to participate in online learning classes must be recommended by their school counselor and approved by school administration.

## ***Dual Enrollment***

High school students have the opportunity to dual enroll in college courses at Michigan post-secondary institutions when certain criteria are met. The college tuition and fees for a course are covered by the Van Buren School District, prorated on local and state revenue. The student is responsible for payment of the remainder of the tuition and fees, textbooks, and transportation costs associated with his or her dual enrollment.

State Criteria for Eligibility: Staff of the Office of Educational Assessment and Accountability (OEAA) has established passing scores on one of several examinations to determine eligibility for Dual Enrollment. The PSAT can be used by sophomores, as well as juniors (in the fall), to qualify for dual enrollment. Once juniors participate in the SAT/ M-STEP in the spring of their junior year, their SAT and/or M-STEP scores will be used for dual enrollment decisions. More information on page 52.

***\*All grades for Dual Enrollment classes and programs (BEC/ECA/GIS/etc) will count as credit towards graduation, but will not be calculated in the student's BHS grade point average.***



## Early College Alliance

The Early College Alliance (ECA) is a unique educational program designed to fully immerse high school-aged students into the post-secondary learning environment. ECA is a public, early/middle college program located on the campus of Eastern Michigan University. It exists in partnership with local school districts, including the Washtenaw Intermediate School District.

The program gives students an opportunity to earn college credits while still in high school and offers strong, academically focused students a chance to enroll in advanced, college-level coursework. It also provides an alternative for students who may not feel connected to their school.

ECA allows students to:

- Graduate from high school with a diploma and up to 60 college credits.
- Attend classes on a university campus with support.
- Learn in a college environment that fosters maturity and academic growth.
- Gain vital skills for college success.

ECA is recognized by the Michigan Department of Education as a Four Plus One program. Students can participate in the program a year past what would have been their graduation year, while not negatively impacting the district's Adequate Yearly Progress. This is an added benefit to the district and to the student. *More information on page 53.*

## **Geographic Information Systems**

Geographic Information Systems (GIS) is a computer-based system to aid in the collection, maintenance, storage, analysis, output, and distribution of spatial data and information. GIS are essential tools in business, government, education and non-profit organizations. There are hundreds of business applications, including routing delivery vehicles, building design, construction plans, real estate, and advertising guides. *More information on page 54.*



The MIAT College of Technology High School Program allows students to receive technical career education and college credits while still enrolled in high school. Students receive credit toward high school graduation while learning hands-on technical career skills at an accredited post-secondary facility.

Classes are interactive and led by school instructors using real industry equipment. High School Program students get a jump start on their career training and have a leg up after high school. No technical experience necessary.

MIAT College of Technology offers the following programs to BHS students at their Canton, MI campus:

- **Avionics Technician**
- **Powerplant Technology**

*More information on page 56.*



## **United States Navy Junior ROTC**

The NJROTC program was established by Public Law in 1964 and may be found in Title 10, U.S. Code, Chapter 102. The program is conducted at accredited secondary schools throughout the nation, by instructors who are retired Navy, Marine Corps, and Coast Guard officers and enlisted personnel. The NJROTC curriculum emphasizes citizenship and leadership development, as well as our maritime heritage, the significance of sea power, and naval topics such as the fundamentals of naval operations, seamanship, navigation and meteorology. Classroom instruction is augmented throughout the year by community service activities, drill competition, field meets, flights, visits to naval activities, marksmanship training, and other military training. *More information on page 58.*



William D. Ford Technical School provides career-technical education for Van Buren Public Schools students. Interested students should speak with their counselor. *More information on page 60.*



# **Course Descriptions by Department**

## Applied Technology Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **170 Intro to Video\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will provide the student with an introduction to video communication and the technical aspects of video production. It will act as a basis for students interested in media productions or technical production/lab. Topics such as the history of electronic media, critical viewing and listening skills, broadcast and cable cast theory, and an analysis of news, entertainment, and advertising standards will be covered. In addition, script writing will be introduced and the actual experience of operating cameras, lighting, audio mixes, and editing programs will be an integral part of the class.

### **186Y Media Productions\***

*Grade Level: 10 - 12; 1 semester (.5 credit)*

*Prerequisite: Intro to Video or teacher recommendation*

This course is designed to instruct the student in the techniques of news, feature, and promotional video productions. Students are responsible for producing news programming for in-school broadcasts and are also responsible for delivering informative announcements to the students and staff. This course may be retaken for credit. Students will learn editing, directing, interviewing, and recording skills. They will earn lead roles: director, assistant directors, technicians and equipment managers, set designers, and other essential roles of media production.

### **194 Yearbook\***

*Grade Levels: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Intro to Yearbook or Teacher Recommendation*

This course is designed to give selected students an opportunity to develop the basic journalistic skills necessary for producing a high school yearbook. Students are actively involved in research, interviewing, planning, copy and headline writing, layout design, public relations work, computer skills, and marketing. Pages are periodically submitted to the publisher for printing and binding with the resulting product being the annual publication for the high school. Fundraising is a requirement of this course.

### **218Y Intro to Yearbook\***

*Grade Level: 9 - 11; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to introduce students to creating and publishing a yearbook. Students will become familiar with the software Adobe Photoshop, Adobe InDesign, Adobe Premiere, and Online Design. Students who take this class will create the Spring Yearbook, help with the main yearbook and will take photos, write articles and captions, and will maintain the BHS Yearbook YouTube Channel. Students enrolled in this course will be given special consideration for the Yearbook class the following year. Fundraising is a requirement of this course.

### **360 Intro to Adobe Software\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will prepare students to use a computer for personal productivity, a job setting or to pursue additional studies in the computer field. Students will learn Adobe Indesign, Adobe Animate, Adobe Premiere as well as other Adobe software over the course of the semester. No prior experience on a computer is necessary to be successful in this course.

### **362 Graphic Design\***

*Grade Level: 9 - 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will focus on three main areas: illustration, multimedia design, and print. A student who enjoys being creative through communicating his/her ideas in images, type, sound, color, and motion will enjoy this course. Students will learn Adobe Illustrator, Adobe Photoshop, and Adobe Premiere in this class. No prior experience on a computer is necessary to be successful in this course.



**366 Computer Programming 1+\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: successful completion of Algebra 1*

Computer Programming 1 is an introductory course for those who require a senior math credit or are interested in programming. NO previous experience is expected from students. The course focuses on the world's most popular programming language, JAVA. Students will develop skills which will allow them to create simple online programs as well as computer-based applications. Students will have the opportunity to earn college scholarships by participating in workshops and competitions. Challenging topics such as robotics and game design are introduced in this course and then become a major focus in Computer Programming 2.

**368 Computer Programming 2+\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: Computer Programming 1*

Computer Programming 2 is a continuation of Computer Programming 1. In this course, students will be able to explore robotics programming of robotics, robotic development, video games, mobile apps, applications, and career possibilities. Students will be able to opt out of the final for this course by successfully completing a robotics challenge at the Robofest World Championships.

**377 Google and More\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will focus on the use of Google Applications and other free Web tools. Some of the applications students will get experience with are: Google Sheets, Google Docs, Google Slides, Google Sites, Google Calendar, YouTube, Emaze, and Prezi. This is a practical course with real world applications for every student as technology continues to grow in importance in our society.

**826 Introduction to Engineering I+**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: Chemistry, Physics, or Teacher Recommendation*

This course is an introduction to the engineering profession and will provide in-depth coverage of four disciplines: mechanical, electrical, civil, and chemical engineering. Focus is on developing problem-solving skills, computational skills, and communication skills. Through active, collaborative work, students work in teams to apply the engineering problem-solving method to "real-world" situations.

**827 Introduction to Engineering II+**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: Chemistry, Physics, or Teacher Recommendation*

This course is an introduction to the engineering profession and will provide in-depth coverage of four disciplines: manufacturing, computer, environmental, and biomedical engineering. Focus is on developing problem-solving skills, computational skills, and communication skills. Through active, collaborative work, students work in teams to apply the engineering problem-solving method to "real-world" situations. Engineering II is independent of Engineering I, so that Engineering I IS NOT required to enroll in Engineering II.

**521 2D/3D CAD Design\***

*Grade Level: 10-12\*; 1 semester (.5 credit)*

*Prerequisite: None*

This course covers the fundamentals of creating engineering drawings with modern CAD software. Topics include basic geometric construction, drawing modification, dimensioning, isometric sketching, orthographic projection, 3D coordinate systems, and patterns for folding 3D objects.

**364 Unreal Game Design (PILOT)**

*Grade Level: 9 -12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is an introduction to the exciting creative occupations for digital arts such as: movies, games, 3D presentations, virtual reality, fashion, marketing and more. Students will learn the basics of Unreal Engine via instructor-led 3rd-person /Virtual Reality game labs. Once each student has achieved learning goals, they will be able to apply their skills and select their own passion to create a final project that matches their interests.

**378 AP Computer Science A+**

*Grade Level: 9 -12; 2 semesters (.5 credit per semester)*

The AP Computer Science A course is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods.

**2933 FANUC Robotic Arm I**

*Grade Level: 11, 12\*; 1 semester (.5 credit)*

*Prerequisite: Algebra II*

FANUC robotic arms are the most common robot used in automation today. These robots are so often utilized in manufacturing processes in Michigan, our state has the nickname automation alley. By taking this class, students will become certified in basic robot operation to create programs for these robots to complete various tasks. Basic robot operation includes being able to move the robot, teaching/ programming the robot how to complete tasks, and how to troubleshoot errors with the robot. The course is taught through two FANUC-created software programs. E-learn teaches the operation of the robot whereas Roboguide is a virtual simulation program to test and execute student-created programs. Students taking this class will have hands-on experiences frequently with an actual FANUC robot in the classroom. Successful completion of the semester course can give a student FANUC-backed certification to be more attractive to potential employers after high school. If students wish, they can take a N.O.C.T.I. certification test at the end of the course which can give the highest level of certification that is offered by FANUC.

**378 AP Computer Principles+ (PILOT)**

*Grade Level: 9 - 12; 2 semesters (.5 credit per semester)*

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical..

**2936 FANUC Robotic Arm II**

*Grade Level: 11, 12\*; 1 semester (.5 credit)*

*Prerequisite: Algebra II*

A continuation of FANUC Robotic Arm I. FANUC robotic arms are the most common robot used in automation today. These robots are so often utilized in manufacturing processes in Michigan, our state has the nickname automation alley. By taking this class, students will become certified in basic robot operation to create programs for these robots to complete various tasks. Basic robot operation includes being able to move the robot, teaching/ programming the robot how to complete tasks, and how to troubleshoot errors with the robot. The course is taught through two FANUC-created software programs. E-learn teaches the operation of the robot whereas Roboguide is a virtual simulation program to test and execute student-created programs. Students taking this class will have hands-on experiences frequently with an actual FANUC robot in the classroom. Successful completion of the semester course can give a student FANUC-backed certification to be more attractive to potential employers after high school. If students wish, they can take a N.O.C.T.I. certification test at the end of the course which can give the highest level of certification that is offered by FANUC.

## Art Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **063 Introduction to Two Dimensional Design\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Students will explore the fundamentals of design and principles of composition through drawing and painting. A wide variety of techniques and mediums will be utilized. Students with beginning to advanced skill levels can take this course and be successful.

### **065 Introduction to Three Dimensional Design\***

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

The focus of this course is to create art that is three-dimensional while focusing on design fundamentals and the principles of organization. A variety of techniques and mediums will be explored in the following areas: sculpture, ceramics, and jewelry. Students with beginning to advanced skills can take this course and be successful.

### **063A Advanced Two Dimensional Design\***

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Two Dimensional Design or Advanced Three Dimensional Design*

Students will improve upon skills gained from 2D Design. Opportunities for in depth inquiry of art history and art philosophy will be available throughout the course. This is a semester-long course allowing students with intermediate to advanced artistic skills to be successful.

### **065A Advanced Three Dimensional Design\***

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Three Dimensional Design or Advanced Two Dimensional Design*

Students will improve upon skills gained from 3D Design. Opportunities for in depth inquiry of art history and art philosophy will be available throughout the course. This is a semester-long course allowing students with intermediate to advanced artistic skills to be successful.

### **058/060 AP Art Studio**

*Grade Level: 11 - 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Advanced Two Dimensional Design or Advanced Three Dimensional Design*

Students will create a body of work to be submitted to the College Board in the spring. Students should have successfully completed *Advance Art* to take this course. This is a year-long course allowing students to submit either a portfolio for consideration for college credits. **Not available 23 - 24.**

### **651 Art and Everything (PILOT)**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Students will explore how art impacts their everyday life through research, discussion, and projects. A variety of techniques will be explored including digital art, drawing, and 3D concepts. Students with beginning to advanced skill levels can take this course and be successful.

## Business Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **120 Accounting and Finance+**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Accounting and Finance is designed to prepare students for an entry-level job in the accounting field and/or to further their study of accounting at the college level. The students will learn manual accounting procedures as well as completing a unit on computerized accounting procedures used in proprietorships, partnerships, and corporations. The students will also explore career opportunities in the accounting field. Any student planning to major in any area of business at the college level should take this course. This course may be used as the related course for both marketing and office occupations capstone or work-based learning. STUDENTS WHO SUCCESSFULLY COMPLETE THIS COURSE MAY QUALIFY FOR COLLEGE CREDIT AT HENRY FORD COMMUNITY COLLEGE, WAYNE COUNTY COMMUNITY COLLEGE, OR WASHTENAW COMMUNITY COLLEGE.

### **126Y Marketing I**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Through sports and entertainment marketing, fashion marketing, social-media marketing, and e-commerce, Marketing 1 will introduce students to the exciting world of marketing. The course focuses on the functions of marketing including selling, promotion, pricing, financing, distribution, product/service management, and marketing information management. Students will develop critical thinking and problem solving skills that can be applied in business situations and everyday life. This course may be used as the related course for the marketing capstone or work-based learning. In addition to learning in the classroom, there may be off-campus learning experiences available for interested students. STUDENTS WHO SUCCESSFULLY COMPLETE THIS COURSE MAY QUALIFY FOR COLLEGE CREDIT AT HENRY FORD COMMUNITY COLLEGE, WAYNE COUNTY COMMUNITY COLLEGE, OR WASHTENAW COMMUNITY COLLEGE.

### **128 Careers**

*Grade Level: 9 - 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course provides students with an opportunity to identify their aptitudes, interests, skills, and abilities to match them to general career areas. Students will learn how to research specific careers using the online software "Career Cruising" and other online and printed resources. Students will also learn numerous techniques for locating and obtaining a job in their chosen career areas. In addition, guest speakers from the community and area colleges and universities are a regular part of the curriculum.

### **130 Money Management**

*Grade Level: 9-12; 1 semester (.5 credit)/*

*Prerequisite: None*

This course is designed to teach all students how to manage their money wisely. The students will learn valuable guidelines for budgeting, personal banking, personal investing and the wise use of investing. Students will participate in a "Pay Day" simulation and a computer software simulation titled "Personal Finance".

### **136Y Marketing II+**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Marketing I*

This course is designed to continue studies in the marketing field at the advanced level. Topics covered will include an in-depth focus and application of marketing functions as well as leadership development. Students will be responsible for daily operations of "The Eye of the Tiger," BHS's school-based enterprise. In addition, students will improve their employability and leadership capabilities by learning essential skills in the following areas: retail operations, cash handling, entrepreneurship, management, and customer service. Work experience is gained throughout this course and may be used on a resume. A letter of recommendation by the program instructor may also be requested. This course may be used as the related course for the marketing capstone or work based learning. STUDENTS WHO COMPLETE THIS COURSE MAY QUALIFY FOR COLLEGE CREDIT AT HENRY FORD COMMUNITY COLLEGE, FERRIS STATE UNIVERSITY, BAKER COLLEGE, DAVENPORT UNIVERSITY, OR WASHTENAW COMMUNITY COLLEGE.

### **138Y Marketing III**

*Grade Level: 11-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Marketing II, Teacher Recommendation*

Marketing III combines the curriculum of Marketing I and II and leads students into the full experience of managing the school store. They will be responsible for ordering, managing inventory, producing sales reports, controlling loss prevention and overseeing employees from Marketing II (training, scheduling, overseeing committees and maintaining employee morale). **Not available 23 - 24.**

### **145A/145B Entrepreneurship**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Entrepreneurship is a specialized business course designed to provide students the skills needed to effectively organize, develop, create, and manage their own business. This course is based upon the Marketing Education Framework which includes business management, entrepreneurship, communication and interpersonal skills, economics, and professional development foundations. Emphasis is placed on the following functions of marketing: distribution, financing, marketing information, management, pricing, product/service management, promotion and selling. Additional topics to be addressed are assessment of personal skills, the components of the free enterprise system and its place in our global economy, human relations and interpersonal skills, the importance of business ethics, and the role quality service plays in business. Students will develop a written business plan for a business of their choice. This business plan may be submitted to Eastern Michigan University's business plan competition. Students will also run a business simulation that will provide them with a real world business experience.

### **146 Business, Management, & Administration (Core)+**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to teach the software skills needed in college and for entry into a business career. Students will complete integrated exercises in Microsoft Word, PowerPoint, and Excel. Students will use the Internet for research and present their results to the class in a PowerPoint presentation. In addition, filing, ethics, and telephone skills will be introduced, and student will create an employment portfolio that will showcase their many skills and talents. Students will engage in problem-solving exercises that will prepare them for the workforce. Many Office Occupations Work-based Learning students will elect this as their related class. STUDENTS WHO SUCCESSFULLY COMPLETE THIS COURSE MAY QUALIFY FOR COLLEGE CREDIT AT HENRY FORD COMMUNITY COLLEGE OR WAYNE COUNTY COMMUNITY COLLEGE.

**150Y Business Management,  
& Administration (Management Support)**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Business Management & Administration Core*

This class is designed for the serious business student who is interested in a career in business and industry. The class provides students with advanced opportunities to apply their foundation skills to word processing, desktop publishing, database management, spreadsheet and presentation activities using Microsoft Office Professional software. Students will engage in problem-solving exercises that will prepare them for the workforce. Students will run a computer simulation that will prepare them for operating their own business. It keeps you totally engaged with management challenges such as labor shortages, strikes, problem employees and industrial accidents. Many Office Occupations Work-based Learning students will elect this as their related class. STUDENTS WHO SUCCESSFULLY COMPLETE THIS COURSE MAY QUALIFY FOR COLLEGE CREDIT AT HENRY FORD COMMUNITY COLLEGE OR WASHTENAW COMMUNITY COLLEGE.

**152 Capstone/Work-Based Learning**

*Grade Level: 12; 2 semesters (1 credit per semester)*

*Prerequisite: Recommendation of Capstone/Work-Based Learning Coordinator and Enrollment in BMA (120, 146, or 150)*

Office Capstone or Work-based Learning is an on-the-job training program for students interested in working in business, professional, or manufacturing offices. The program is designed to prepare students for entrance into entry level office jobs. Occupations included in this area are general office clerk, accounting clerk, receptionist, and administrative assistant. Students do not need to have a job to apply for Office Capstone or Work-Based Learning. Students need to fill out an application in the spring so that they may go through the screening process.

**156 Marketing Capstone/Work-Based Learning**

*Grade Level: 12; 2 semesters (1 credit per semester)*

*Prerequisite: Recommendation of Capstone/Work-Based Learning Coordinator and Enrollment in BMA (120)*

*Marketing I (126), or Marketing II (136)*

Marketing Capstone or Work-based Learning is an on-the-job training program designed to prepare students for beginning jobs in the retail, wholesale, and service trades, known as distributive occupations. It includes all the activities required in the flow of goods from the producer to the consumer. Occupations in this field include jobs in retail stores, local businesses and restaurants. Students are employed in an approved training station in the Belleville area. Students do not need to have a job to apply for Marketing Capstone or Work-based Learning. Students need to fill out an application in the spring so that they may go through the screening process.

## English Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### 196 English 9

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This is a year-long English course which emphasizes the development of reading strategies and writing skills to promote college and career readiness. Through a combination of independent reading, book clubs, and core texts, students will be encouraged to develop lifelong reading habits. Students will study mentor texts to identify and imitate craft moves with an emphasis on process and revision to create quality drafts. Students will read and write texts from a variety of genres and curate a portfolio of best drafts including narrative, informational, argumentative, and reflective writing.

### 200 English 9 Honors

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This is a fast-paced year-long English course which emphasizes the development of reading strategies and writing skills to promote college and career readiness. Through a combination of independent reading, book clubs, and core texts, students will be encouraged to develop lifelong reading habits. Students will study mentor texts to identify and imitate craft moves with an emphasis on process and revision to create quality drafts. Students will read and write texts from a variety of genres and curate a portfolio of best drafts including narrative, informational, argumentative, and reflective writing. Students who choose Honors English 9 should have strong foundation skills in reading and writing and expect to do more work independently with shorter deadlines and less scaffolding.

### 220 English 10

*Grade Level: 10; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is focused on American literature which provides a foundation for understanding the significance in the development of language, genre, and content. Emphasis is placed on the preparation for college and career readiness, while enhancing both reading and writing skills. Students will read a variety of genres and write a required number of essays to earn credit for this course.

### 210 English 10 Honors

*Grade Level: 10; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed for the student committed to reading American works beyond the high school level in preparation for AP English. The foundation for making inferences with complex, dense texts is a primary focus of this class. Students will read a variety of genres and write a required number of essays to earn credit for this course.

### 250 English 11

*Grade Level: 11; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to assist students in preparation for college and its academic demands. Critical thinking skills, analysis, and synthesis of literary and informational texts will be utilized. SAT/ACT preparation in both reading and writing will also be incorporated into this course. Students will read a variety of genres and write a required number of essays to earn credit for this course.

### 240 English 11 Honors

*Grade Level: 11; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to model the academic demands of college and the Advanced Placement English course to refine the student's ability to read, understand, and appreciate different types of literature, both classical and contemporary. This course will also improve vocabulary, logical expression, precise use of words and increased effectiveness in writing and speaking. A variety of genres to accomplish this will be available to students. SAT/ACT preparation in both reading and writing will also be incorporated into this course. Students will read a variety of genres and write a required number of essays to earn credit for this course.

**264 Advanced Placement English:  
Language and Composition**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*  
*Prerequisite: None*

The focus of this college-level class is to have students read and analyze a wide range of nonfiction prose in order to understand rhetoric and how language is used to communicate ideas, tone, and an author's or speaker's purpose. This class focuses on close reading of multiple texts along with frequent writing that is both timed and untimed. Through our study of written, spoken, and visual texts, students will develop and strengthen their own writing and analytical skills. Course content is based upon the suggested curriculum of the College Board for the AP English Language test. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material.

**284 English 12**

*Grade Level: 12; 2 semesters (.5 credit per semester)*  
*Prerequisite: None*

Centered on British and contemporary literature, students will do an in-depth study of literary techniques and analysis of ideas and style that will equip them for college level reading and writing. Reading various forms of literature, both historical and contemporary, will aid students in appreciation of various genres. Additionally, students will work to improve their word choice, and organization of information in writing. Students will read a variety of genres and write a required number of essays to earn credit for this course, as well as complete an exit project required for graduation.

**270 English 12 Honors**

*Grade Level: 12; 2 semesters (.5 credit per semester)*  
*Prerequisite: None*

This course of study is focused on canonical works which afford the opportunity for perfecting reading and writing skills in preparation for college. Reading various forms of literature, both historical and contemporary, will aid students in appreciation of various genres. Students will read texts that are at the college reading level, and the course itself will be run in an effort to model the typical study of literature at the collegiate level. Students will read a variety of genres and write a required number of essays to earn credit for this course, as well as complete an exit project required for graduation.

**266 Advanced Placement English:  
Literature and Composition**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*  
*Prerequisite: None*

Students will be expected to develop college-level reading and writing skills. In this course, students will engage in the careful reading of major literary works common in college courses. Writing assignments will focus on the critical analysis of literature and the use of literary technique. Writing will be mostly analytical and include essays mostly in exposition and argument with some other writing forms. Course content is based upon the suggested curriculum of the College Board for the AP Literature test. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material.

**172 Creative Writing\***

*Grade Level: 9-12; 1 semester (.5 credit)*  
*Prerequisite: None*

Students will express themselves imaginatively through a variety of prose and poetic genres. Creative reading and writing techniques will be studied as sources of ideas and as models for technique. Students will be expected to share their own work as well as critique other students' works. Strong emphasis will be placed on the evaluation and revision of student writing.

**174 Drama I\***

*Grade Level: 9-12; 1 semester (.5 credit)*  
*Prerequisite: None*

This course will provide an opportunity for students to be introduced to the world of theater. Students will be required to participate individually or in groups, in various pantomimes, improvisations, and eventually to memorize lines from scripts while on stage. Strong emphasis is placed on character development and interpretation before acting.

**177 Drama II\***

*Grade Level: 9-12; 1 semester (.5 credit)*  
*Prerequisite: Successful completion of Drama I*

This course is offered for those students who wish to advance in the world of theater by experiencing various aspects of theater history, stagecraft and performance style. Students will encounter the dynamics of acting through reading, performing, watching live or recorded performances, lectures and independent study.



**190 Speech\***

*Grade Level 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to help the student improve his/her composure, confidence, and speaking in front of an audience. It will present the student with information, techniques and exercise for developing basic public speaking skills. The course will focus on delivering various types of speeches. This course may be repeated for credit.

**255 Graphic Literature (PILOT)**

*Grade Level 11-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Graphic Literature is an English course offering for interested 11th and 12th grade students that can substitute for English for that year. Students will examine literary analysis techniques through the lens of graphic novels and develop an understanding as to how a more visual medium can change how pieces are interpreted. This course will be able to be taken year long, but students will have the ability to switch in or out for each semester.

**1923 Forensics Speech (PILOT)**

*Grade Level 11-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will utilize speech skills in a multitude of ways. We will learn and examine different types of speeches categorized under MIFA (Michigan Interscholastic Forensics Association), including but not limited to broadcasting, sales pitches, dramatic interpretations, storytelling, impromptu speeches, and poetry recitations. The course will offer students the ability to hone their public speaking ability in a variety of ways.

**192 Journalism & Mass Media (PILOT)**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to teach the fundamentals of journalism including writing features, editorials, news, sports, entertainment, and opinion. Students will learn layouts and design for newspaper and the elements of news writing. Journalism ethics, rights and responsibilities will also be taught. This class is for upperclassmen who have been successful in other English classes and plan to be a part of a newspaper class in the future. Basics of photography will be taught.

## Family and Consumer Sciences Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **328 Intro to American Sign Language**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Are you ready to learn a beautiful language? American Sign Language is the only visual foreign language! Students in class will be challenged weekly with a quiz over 30 new signs. The sign topics for quizzes include: iconic signs, numbers, conversational signs, introductory signs, family, food, cities, money and math, classes and careers, animals, colors and clothes, sports, holidays, school, months/days/years, and friends. Students will be expected to learn and practice fingerspelling the alphabet each day alone, with peers, and in front of the class. Students will learn about famous Deaf people and other Deaf-culture must-knows! Don't miss out on this fun and exciting class--a sign language game is scheduled every week!!!

### **329 American Sign Language I**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: Intro to ASL*

ASL 1 students will review the vocabulary learned in Intro to ASL and add the topics of: home, transportation, time, routines, music, jobs, emotions and physical appearance. Conversations in ASL dominate our lessons. We will tape the conversations and provide captions in English to assist the ASL-impaired watching the videos. Students experience Deaf culture by practicing "silent days" in class, interpreting Deaf videos, reading stories about Deaf culture, celebrating Deaf holidays and attending a Deaf event. Don't miss our March Madness Fingerspelling Competition that occurs annually! Who will be the Belleville High School ASL Fingerspelling Champion and take home the 13" trophy?!

### **330 American Sign Language II**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Intro to ASL & ASL 1*

ASL 2 expands your sign language vocabulary to include: food and drinks, seasons and holidays, activities and hobbies, house and home, technology and household goods. Students will practice signing short stories using classifiers to describe time, numbers, distance, objects, and much more. As your knowledge of ASL increases, participation in Deaf events becomes the goal: meeting Deaf people, going to a Deaf social event, interacting in Deaf social media, and watching a movie with closed-captioning.

### **331 American Sign Language III**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Intro to ASL, ASL 1 and ASL 2*

ASL 3 brings all of your vocabulary together by learning how to: tell a story in ASL, describe everyday incidents or accidents in sign language, how to do role-shifting to enhance a story, tell a joke in ASL, sign a children's book in ASL, how to interpret a song in ASL and how to pass Deaf culture on to Deaf children by storytelling in American Sign Language. Students will have many fun projects that will include: going to a school and signing a book to children, choosing a song to interpret in ASL and perform it at Belleville High School, and visiting a Deaf school to immerse yourself in Deaf culture!

**750 Health I**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This class will teach you about nutrition and how to manage a healthy weight. Hands-on activities demonstrate the negative effects of alcohol, tobacco and drug use. Students will explore personal values and beliefs through interactive lessons with other students during the reproductive health unit. Lastly, students will learn and perform the hands-only CPR life-saving technique.

**752 Health II**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Hands-on activities really dominate this class. Students learn about personal care as we cover hot topics like tattoos and body piercings. As students learn about diseases and disorders, the immune system, and the environment. We will use technology-based strategies to demonstrate mastery of learning.

**432 Personal Living**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Students will discover who they are, and what makes them a unique individual. All topics that are covered are personalized so each student grows individually. Additional topics covered are volunteerism, leadership, careers, money management, and stress management.

## Mathematics Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

### **624 Algebra Prep\***

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: Teacher recommendation*

The Algebra Prep course is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course is designed to help students overcome weakness in preparation in mathematics, emphasizing the concepts necessary to be successful in Algebra I and Algebra II. The course helps the student develop good mathematical study skills and learning strategies as an integral part of the course. The course begins with a brief review of the number system and operations with whole numbers, fractions, decimal, positive and negative numbers. Eventually covering rational and linear exponents, ratios, proportions and percentage; solving simple and complex equations with one variable.

### **610 Algebra I\***

*Grade Level: 9, 10; 2 semesters (.5 credit per semester)*

*Prerequisite: Pre-algebra*

The main focus of Algebra I is on linear functions. Students use their intuitive understanding of linear relationships to detect and describe linear patterns. Students are introduced to multiple representations of functions including verbal, numeric, graphical, and algebraic. Students develop an understanding of the equivalence of relationships and the ability to convert between representations.

Students explore the graphs of linear functions and develop an understanding of slope as a rate of change. Students model data with a linear function and use the regression equation to make predictions. Students solve systems of linear equations and inequalities, graphically and algebraically.

Algebra I also includes select topics in non-linear algebra, probability, and statistics. Students are introduced to quadratic, polynomial, and exponential functions. These functions are covered in more depth in Algebra II. Students find simple and compound probabilities as well as explore measures of central tendency and ways of representing data visually.

### **630 Geometry\***

*Grade Level: 10, 11; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra 1*

Geometry incorporates common threads throughout the entire course: construction, proof, transformation, algebraic reasoning, and composition. These concepts are not presented in isolation but rather revisited within each unit to strengthen understanding.

Students are introduced to the basic building blocks of geometry: points, lines, and angles. Students develop properties of angles and angle pairs, including angles formed by parallel lines. Students explore triangles using the Pythagorean Theorem, special right triangles, the triangle inequality, and trigonometric ratios. Students explore quadrilaterals and understand the relationship between squares, rectangles, parallelograms, trapezoids, and rhombi. Students explore circles including angles, arcs, chords, tangents, and sectors.

Students explore polygons including area and perimeter, similarity, congruence, and angle sums. Students use reflections, rotations, translations, dilations, and symmetry to transform shapes in the coordinate plane. Students calculate slope, distance, and midpoint and use these measures to explore shapes in the coordinate plane.

Students calculate the volume and surface area of three dimensional figures. Students explore ways to represent three dimensional figures, including nets and cross sections.

### **634 Honors Geometry<sup>+</sup>**

*Grade Level: 9, 10; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra 1*

Geometry incorporates common threads throughout the entire course: construction, proof, transformation, algebraic reasoning, and composition. These concepts are not presented in isolation but rather revisited within each unit to strengthen understanding. PROOFS ARE EMPHASIZED IN THIS COURSE.

Students are introduced to the basic building blocks of Geometry: points, lines, and angles. Students develop properties of angles and angle pairs, including angles formed by parallel lines. Students explore triangles using the Pythagorean Theorem, special right triangles, the triangle inequality, and trigonometric ratios. Students explore quadrilaterals and understand the relationship between squares, rectangles, parallelograms, trapezoids, and rhombi. Students explore circles including angles, arcs, chords, tangents, and sectors.

Students explore polygons including area and perimeter, similarity, congruence, and angle sums. Students use reflections, rotations, translations, dilations, and symmetry to transform shapes in the coordinate plane. Students calculate slope, distance, and midpoint and use these measures to explore shapes in the coordinate plane.

Students calculate the volume and surface area of three dimensional figures. Students explore ways to represent three dimensional figures, including nets and cross sections.

### **626 Algebra II<sup>+</sup>**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra 1, Geometry*

Algebra II is the springboard to all higher level math courses. While less rigorous than Honors Algebra II, the in depth study of topics that this course offers will pay dividends in all future technical studies. This course begins where Algebra I leaves off, with deeper coverage of the following topics: patterns, data description, models and systems, functions, exponents, logarithmic functions, matrices, quadratic functions, trigonometry, and conic sections. Investigation lessons involving active learning and discovery are integrated into every unit.

### **638 Honors Algebra II<sup>+</sup>**

*Grade Level: 9-11; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra 1, Honors Geometry (may be taken concurrently)*

Algebra is the foundation for most of the students' future mathematics, which in turn is imperative to studies in science, engineering, and statistics. This course helps students clarify and broaden algebraic ideas. The major topics are functions, graphing, number systems, problem solving, conic sections, and trigonometry

### **650 Pre-calculus<sup>+</sup>**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra II*

This course is designed to increase student awareness and achievement in several areas of mathematics. To prepare the student for success in calculus, the following topics will be studied: functions, inverses of functions, relations, quadratic equations, conics, polynomials, function and relation graphing, exponential and logarithmic functions, trigonometry, systems of equations, linear algebra, matrices, analytic geometry, probability, proof by induction, sequences and series. The student will become proficient in the use of graphing calculators.

### **660 Advanced Placement Calculus AB<sup>+</sup>**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Pre-calculus*

Calculus AB is primarily concerned with developing the students' understanding of the concepts of multi representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are important. The topics focused on include limits, derivatives and integrals of mathematical functions.

**668 Advanced Placement Calculus BC<sup>+</sup>**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisites: Advanced Placement Calculus AB*

Calculus BC is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are important. Calculus BC is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. Both courses are intended to be challenging and demanding. The topics expand on derivation and integration along with application of integrals, integration techniques and series.

**654 Trigonometry<sup>+</sup>**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: Algebra I, Geometry, and Algebra II*

This course begins by reviewing basic concepts in trigonometry. As students continue with the course, they will learn about trigonometric functions, the unit circle, periodic graphs, and trigonometric identities and their proofs. Throughout the course, students will discover examples of the role of mathematics in daily life.

**642 Discrete Mathematics<sup>+</sup>**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra II or Honors Algebra II*

Discrete math is the study of mathematical properties of sets and systems that have only a finite number of elements. Common discrete mathematics topics include the development and analysis of algorithms, probability, graph theory, linear programming, and other mathematical topics not related to Calculus.

**640 Probability and Statistics<sup>+</sup>**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: Algebra II*

This course will provide students with an introduction to probability and statistics. Students will learn how to gather data and how to draw information from the data. Statistics are used in many fields. Students pursuing careers in education, medicine, biology, psychology, or economics will need a working knowledge of statistics. Statistics are a part of everyday life so well informed citizens should have knowledge of how statistics are gathered and how they are used. Major topics include: probability, normal distributions, estimation, random variables, sampling and decision-making.

**602 Advanced Placement Statistics<sup>+</sup>**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Honors Algebra II*

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collection, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes. Exploring data: Describing patterns and departures from patterns. Sampling and Experimentation: Planning and conducting a study. Anticipating Patterns: Exploring random phenomena using probability and simulation. Statistical Inference: Estimating population parameters and testing hypotheses. Students completing the course are eligible to take the Advanced Placement Test and possibly receive credit and advanced placement as a college or university.

**Courses that count as a Senior Math Experience:**

- Accounting & Finance
- AP Computer Science & Principles
- AP Physics
- Business Management (CORE)
- Computer Programming 1, 2
- Geospatial Information Systems
- Intro to Engineering 1, 2
- Marketing II
- MIAT
- William D. Ford Career Technical Center

## Music Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit  
Courses identified with (+) qualify as a Math Credit

### **076 Concert Choir\***

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

The Concert Choir is a large performing ensemble that is designed to meet the needs of the more experienced vocal student. Rehearsal time and outside preparation are directed toward advancing the students' voice development, music fundamentals, performance of larger choral works, and exposure to compositions representing all periods of music history.

### **082 Concert Band\***

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Audition, Band Director Recommendation*

The Concert Band provides the instrumentalist the opportunity for continued growth in basic musical performance skills. Increased performance skills are emphasized through performance of quality concert literature as well as the use of technical studies. After school performances and rehearsals are part of the class requirements. Marching Band is an extension of this course.

### **084 Jazz Band\***

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Audition, Band Director Recommendation*

Jazz Band is a select group of instrumentalists comprised primarily from the members of Symphony Band. Membership for piano, guitar, and bass guitar is open to the entire student body by audition; but preference will be given to members of the Symphony Band for these positions. Jazz Band members receive training in improvisation, model scales, and jazz chord structure. Pop, rock, and jazz styles of music are taught. After school rehearsals contribute to this ensemble's effectiveness during many public performances throughout the school and community.

### **062 Music Appreciation\***

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Music Appreciation is an introduction to various musical styles through the extensive listening and synthesis of music. The content includes a survey of Western art music as well as examples of blues, jazz, musical theater, rock, and non-Western music, and will be comprehensively studied over the course of two semesters. Concert attendance is mandatory for 3 concerts per semester; one per semester must take place outside of school hosted events. The course is open to both music students and non-music students.

### **086 Symphony Band\***

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Audition, Band Director Recommendation*

The Symphony Band provides advanced instrumentalists with performance experience in the finest band literature. Rehearsal time and extensive outside preparation is directed toward improving intonation, rhythm, style, technique, and sight reading. After school performances and rehearsals are part of the class requirement. Marching Band is a requirement of this course.

### **088 Varsity Band\***

*Grade Level: 9, 10; 2 semesters (.5 credit per semester)*

*Prerequisite: Band Director Recommendation*

The Varsity Band is designed to meet the musical needs of those students who require more experience in fundamentals of instrumental performance. Rehearsal time and outside individual preparation are integral parts of this course. Marching Band is an extension of this course.

## Physical Education Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **706 Sports Medicine**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Biology*

This class is a science-oriented class designed to teach students anatomy, kinesiology, physiotherapy, first aid and athletic training techniques. Special attention will be given to the identification and treatment of sports-related injuries.

### **710/711 Introductory P.E. 9/10**

*Grade Level: 9, 10; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to introduce students to a variety of sports at a basic and limited level. Activities (calisthenics, drills, games, jogging, relays, running, etc.) that promote increased ability, agility, flexibility, fundamental skill work, coordination, teamwork, cardiovascular fitness, muscle strength and endurance, and physical fitness will be combined with instruction in the various rules and regulations for each of, but not limited to, the following sports: soccer, team handball, speedball, volleyball, and basketball.

### **712/713 Intermediate P.E.**

*Grade Level: 9, 10; 1 semester (.5 credit)*

*Prerequisite: Introductory P.E.*

This course is designed to incorporate and continue development in sporting activities at a higher level than Introductory P.E. activities (calisthenics, drills, games, jogging, relays, running etc.) that promote increased ability, agility, flexibility, fundamental skill work, coordination, teamwork, cardiovascular fitness, muscle strength and endurance. Physical fitness will be combined with instruction in the various rules and regulations for each of, but not limited to, the following sports: soccer, team handball, speedball, volleyball, and basketball.

### **720/721 Team Sports**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to provide students with the opportunity to learn the basic rules and regulations while participating in team sports such as basketball, soccer, flag football, tennis, badminton and volleyball. Secondly, activities such as calisthenics, drills, exercises, games, relays, and jogging (less than two miles per week) will be incorporated into the total program so that agility, coordination, and overall physical fitness levels are improved. The course may be elected more than once for credit.

### **730/731 Physical Conditioning**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

The focus of this course is instruction in physical conditioning and strength training. Running up to three (3) miles (or equivalent) each week will be expected of all individuals enrolled in this class. Class time will be used to observe, practice, and learn a variety of lifts as well as calisthenics, flexibility, rope jumping, and conditioning techniques. Individual progress will be charted for physical fitness exercises; lifts and running with improvement and participation are major grading factors. This course may be elected more than once for credit.

### **740/741 Swimming I**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to make non-swimmers or beginning swimmers comfortable in the water environment. Student proficiency should improve in each of the following: rhythmic breathing, front crawl, side stroke, elementary backstroke, breaststroke, treading water, survival floating, snorkeling, and basic water safety. This course may not be elected more than once for credit except with the instructor approval.



## **742/743      Swimming II**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: Swimming 1 or Competency Test*

This course is designed for students who have had experience in the basic swimming strokes and wish to improve their skills, endurance and knowledge. Proper stroke technique and fundamentals will be taught. Classes will also incorporate stroke drills and analysis, endurance training, relay races, and group games. Also, basic water safety techniques will be learned. This course may be elected more than once for credit.

## **718      Rhythmic Exercise**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This fast-paced, fun course is centered around cardiovascular endurance and strength training in a variety of different avenues including but not limited to zumba, cardiovascular dance, yoga, body weight strength and endurance exercises, the use of the indoor track and the BHS weight room.

## **750      Health I**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This class will teach you about nutrition and how to manage a healthy weight. Hands-on activities demonstrate the negative effects of alcohol, tobacco and drug use. Students will explore personal values and beliefs through interactive lessons with other students during the reproductive health unit. Lastly, students will learn and perform the hands-only CPR life-saving technique.

## **752      Health II**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Hands-on activities really dominate this class. Students learn about personal care as we cover hot topics like tattoos and body piercings. As students learn about diseases and disorders, the immune system, and the environment. We will use technology-based strategies to demonstrate mastery of learning.

## **737      Sport Specific Advanced Physical Conditioning (PILOT)**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: Physical Conditioning or Competency Test*

This course offers a conditioning program to improve sports skills and specific athletic activities. It also improves fitness, speed, balance, core conditioning, and coordination with various protocols including plyometrics, agility, games, strength, and conditioning exercises. The focal point of the course will be the implementation of basketball, football or volleyball. Majority of the class structure will be composed of students participating in various junior varsity and varsity athletics at the high school level. The basketball section of the course is for all students interested in learning the game of basketball. The class will focus on individual fundamental, team strategies, specific conditioning, and weight training workouts to take students to a higher level. The team concepts and philosophy will be consistent with the basketball programs at BHS. The football section of the course is for all students interested in learning the game of football. The class will focus on individual fundamentals (position work), team strategies, and specific conditioning and weight training workouts to take students to a higher level. The team concepts and philosophy will be consistent with the football program at BHS. The volleyball section of the course is for all students interested in learning the game of volleyball. The class will focus on individual fundamentals, team strategies, and specific conditioning and weight training workouts to take students to a higher level. The team concepts and philosophy will be consistent with the volleyball programs at BHS.

## Science Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **836 Conceptual Biology**

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course provides an overview of basic biological concepts, including building blocks of life cell structure and energy, genetics, the human body photosynthesis and ecosystems. Particular attention and guidance are also given to enhance fundamental laboratory techniques, develop a fuller understanding of the scientific method from a biological perspective and to sharpen communication and organizational skills. Successful completion of this course will provide a biology credit required by the state for graduation.

### **838 Honors Biology**

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: Middle school science teacher recommendation*

This course has the dual purpose of introducing students to basic biological concepts, and developing their skills in scientific reading, writing, and seminar presentation. The structure, chemistry and division of cells are among the topics covered along with the physiology of the human body, ecology and genetics. Lab work features the use of the microscope, the structure of lab reports and an increased familiarity with experimental methods. Scientific comprehension in reading and accurate, succinct writing skills are stressed with personal responsibility in reading and homework. Successful completion of this course will provide a biology credit required by the state for graduation.

### **840 Conceptual Chemistry**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra I*

The goal of this course is to provide students with an understanding of chemistry (changes in matter and energy). Students will do laboratory experiments along with course work that promotes mathematical and conceptual understanding. Successful completion of this course will provide a chemistry credit required by the state for graduation. Topics covered include: atomic structure and behavior; elements, the composition and properties of molecules and compounds; kinetics and equilibrium; acids and bases; characteristics of solids, liquids, and gasses.

### **842 Honors Chemistry**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra I*

This is a laboratory-centered course that emphasizes the building of a scientific model based on experimentation. It stresses the understanding and application of basic chemical concepts along with developing a facility with lab techniques. Topics include: atomic structure and bonding; chemical energy; kinetics and equilibrium; acids and bases; chemical reactions; states of matter. Particular concentration is placed on scientific reasoning and writing lab reports along with knowledge of scientific notation, significant figures, and term conversions. Successful completion of the course will provide a chemistry credit required by the state for graduation.

**856 Conceptual Physics**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Algebra I*

The topics in this course focus on the study of motion, forces, forms of energy and energy transformations. Many concepts taught in a physics class involve relationships between variables in mathematical equations. This class is designed to focus on the relationships between the variables in these equations (concepts) and less on the mathematics involved in manipulating the equations. The practical application of concepts to daily occurrences will be stressed. Successful completion of this course will provide a physics credit required by the state for graduation.

**850 Honors Physics**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Geometry*

This course covers a broad range of topics in physics including, but not restricted to, kinematics, dynamics, work and energy, waves, simple harmonic motion, electric fields and electric circuits. Laboratory experiences are used to introduce and reinforce basic physics concepts, centering on engineering projects and application of physics formulas and concepts to real-world examples. There is an emphasis on developing students' problem solving and analytical skills.

**802 Anatomy and Physiology**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Biology, Chemistry*

This advanced course will provide students with knowledge of the structure and function of the human body. It is modeled after a college-level introductory course with focus on biological concepts, tissues, disease, human senses, and the major systems of the body. Class will consist of lecture, student presentations, extensive vocabulary, written exercises, tests, and laboratory work. A successful student should anticipate spending significant time outside of school to keep up with the large amount and fast pace of information being presented. Dissection of various organs and organisms may also be included in this course. A seminar presentation is required second semester.

**816 Organic Chemistry I**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

The goal of this course is to provide students who are thinking of a career in the medical field or other type of life science with introductory topics in organic chemistry (the study of carbon-containing compounds). Organic chemistry is a course that is required for the life sciences and medical field and stresses the syntheses, mechanisms, and structures involved in chemical reactions. Students will perform laboratory experiments to synthesize and purify various organic products. Applications to the life sciences and the medical field will occur through class discussion and communication with members of the profession. Topics covered include: Introduction & Review of Chemical Structure, Structures & Properties of Organic Molecules, Nomenclature & Stereochemistry, and Chemical Reaction Mechanisms, Thermodynamics, & Kinetics

**817 Organic Chemistry II**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

The goal of this course is to provide students who are thinking of a career in the medical field or other type of life science with introductory topics in organic chemistry (the study of carbon-containing compounds). Organic chemistry is a course that is required for the life sciences and medical field and stresses the syntheses, mechanisms, and structures involved in chemical reactions. Students will perform laboratory experiments to synthesize and purify various organic products. Applications to the life sciences and the medical field will occur through class discussion and communication with members of the profession. Topics covered include: Introduction & Review of Chemical Structure, Structures & Properties of Organic Molecules, Nomenclature & Stereochemistry, and Chemical Reaction Mechanisms, Thermodynamics, & Kinetics.

**849 Animal Science**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: Biology*

This course is designed to provide students with an opportunity to explore career paths related to animals. A wide range of topics will be covered, such as, animal nutrition, behavior, breeding, pedigrees, companions, training, and health care wildlife management. Students will be required to map an educational and career plan for an area of individual interest.

**824 Earth Science: Geology**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course focuses on exploring and understanding the physical earth. Topics include: Plate Tectonics, Earth's History, formation of land and seafloor features, earthquakes and volcanoes, and natural resources. This course will also explore the interactions between water and the physical earth.

**825 Earth Science: Astronomy**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course focuses on the study of the Earth from the surface to outer space. Topics include: interactions in the atmosphere and climate change, the Big Bang Theory, stars and the universe, and planetary motion.

**820 Ecology I: Environmental Quality and Population (Fall Semester)**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to provide students with a hands-on understanding of the relationships between organisms and their environment. Major topics include: research techniques, ecosystems, watersheds, urban and suburban development, as well as, issues facing freshwater and marine environments. Also included is a seminar presentation on an area of individual interest, outdoor studies and discussion focusing on real-life environmental issues and decision-making.

**821 Ecology II: Energy and Land Use (Spring Semester)**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to provide students with a practical understanding of the relationships between organisms and their environment, as well as, the local and global impact of individual, social and political actions. Major topics include: global climate change, alternative energy sources, nuclear power, energy management. Also included is a seminar presentation on an area of individual interest, fieldwork and discussion focusing on real-life environmental issues and decision-making.

**862 Forensic Science**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: 2 science credits*

The goal of this course is to reinforce scientific principles and concepts introduced to students in their previous science courses. There will be an emphasis on learning how to use scientific data to support conclusions. Students will be required to participate in extensive laboratory activities that require them to apply scientific principles to solve problems that are typically present at crime scenes. Possible topics include fingerprints, white powder analysis, blood typing, DNA fingerprinting, glass analysis, entomology, and hair and fiber analysis.

**834 Forensic Science II**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: Forensic Science I*

The goal of this course is to reinforce scientific principles and concepts introduced to students in their previous science course, including an introductory Forensic Science course. There will be an emphasis on learning how to use scientific data to support conclusions despite how it may or may not be presented in a court of law. Students will be required to participate in extensive laboratory activities that require them to apply scientific principles to solve problems that are typically present at crime scenes. Possible topics include DNA fingerprinting, advanced Bloodstain Pattern Analysis, Forensic Anthropology, advanced Entomology, and Forensic Toxicology.

**822 Horticulture**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course centers on practical, hands-on classroom and greenhouse experience in growing indoor and outdoor plants. Students learn propagation from seeds and cuttings, healthy plant maintenance, pest and disease recognition and control, and pruning. Special requirements and techniques for backyard landscaping and home composting are also covered.

**860 Advanced Placement Biology**

*Grade Level: 11,12; 2 semesters (.5 credit per semester)*

*Prerequisite: Biology, Chemistry/Physics,  
Pre-Course Meeting*

This is the equivalent of a college level introductory biology course and emphasizes the integration of basic biological concepts through lectures, outside reading, written exercises and increasingly involved lab work and techniques. Some labs will require students to come into school early. Topics include: the chemical and cellular basis of life, the physiology of organisms, the perpetuation of life and the biology of populations. The AP Biology Exam is offered for possible college credit. This class will require a considerable time commitment.

**844 Advanced Placement Chemistry**

*Grade Level: 11,12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This is the equivalent of a college level introductory chemistry course with emphasis on math-based chemical computation and rigorous problem solving. Basic chemical concepts are developed and the complexity of their relationships understood. Students keep lab notebooks that record increasingly complex and time-consuming lab work with sophisticated equipment. Some labs will require students to come into school early (up to one hour). Organic chemistry and qualitative analysis are among new topics covered. Exams and quizzes are less frequent and assignments fewer in a college-like atmosphere of personal accountability. The AP Chemistry Exam is offered for possible college credit.

**852 Advanced Placement Physics<sup>+</sup>**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Geometry, Honors Chemistry/Physics,  
Pre-course Meeting*

This course is the equivalent of a college level introductory physics course and emphasizes students' problem solving and analytical skills. Areas of study include kinematics, mechanics, rotation, energy, waves, and electricity. Students will design and conduct inquiry-based laboratory investigations to solve problems through observation, data collection, analysis, and interpretation. The AP Physics exam is offered for possible college credit.

## Social Studies Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **942 U.S. History and Geography**

*Grade Level: 9; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This required course of United States history begins with historical context and geographical implications of industrialization and imperialistic expansion leading to World War I, the Roaring 20's, the Great Depression, World War II, the Cold War, Korean and Vietnam conflicts, Civil Rights and counterculture, the Gulf War and domestic, economic and foreign policy since World War II. This course requires outside reading and includes an in-depth study and comparison of parallels in history and geography as the nation develops.

### **916 Economics**

*Grade Level: 10, 11; 1 semester (.5 credit)*

*Prerequisite: None*

This required course deals in depth with the production, distribution, and consumption of goods and services. The major purpose of economics is to enable students to understand and apply the fundamental concepts of economics as they learn how to become active participants in the American economic system. They will engage in a variety of activities where they will use economic information, graphs, modes and computer technology in the analysis and interpretation of data.

### **960 Government**

*Grade Level: 10, 11; 1 semester (.5 credit)*

*Prerequisite: None*

This required course in political science focuses on federal, state, and local government and their roles in the American free enterprise democracy. The study of the rights and responsibilities of being an American citizen will also be included.

### **968 World History and Geography**

*Grade Level: 11; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This required course takes a global and comparative approach to studying the world and its past to develop a greater understanding of the development of worldwide events, processes, and interactions of the present. Units of study cover all areas and peoples of the world from the foundations of prehistory up to modern time.

### **910 African American Studies**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course will analyze the African American experience: its characteristics, achievements, figures & groups, and issues & struggles, of the past and the present to provide a more accurate interpretation of modern history. Evaluations will be based on assigned readings, interpretations of primary documents, research assignments, projects, but most importantly, through class discussions.

### **918 History of U.S. Civil War**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This in-depth course will investigate the historic and economic causes of the U.S. Civil War, the personalities of the conflict, its major campaigns and battles, its social and political implications, and its impact on technology, art and science in the United States. This course is designed for those students who wish to delve deeper into this fascinating subject.

### **938 History of World War II**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This class will study the causes, the sequence, and the implications of World War II. It will handle the geographic areas involved, the major diplomatic and political decisions, social implications, military events, and some of the key people of the war. It covers the time period of 1918 to the present, with an emphasis on the years 1939-1945.

### **124 Law and the Young Adult**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

The primary objective of this course is to acquaint the students with ideas and concepts of law which they may find useful in everyday life. The topics that are included are constitutional rights and freedoms, criminal and civil law, court procedures, and consumer protection laws. The students will be better equipped than most citizens to analyze legal issues. Students may be involved in/visit Teen Tribunal at the 34<sup>th</sup> District Court in Romulus.

### **920 Military History**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is an in-depth look at the formation and history of the military. The course will progress from the British colonial days all the way to the present involvement of United States Military Forces in the Middle East, global and other political/military engagements. **Not available 22 - 23.**

### **959 Pop Culture**

*Grade Level: 9 - 12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is an activity and project-based social history course open to ninth through twelfth grade students. This one semester course focuses on evaluation of social history in America through analysis of popular culture changes through the twentieth century. Prior history knowledge is beneficial, but not required for success. Interest in history is critical to achieve high levels of learning.

### **924 Michigan History**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Michigan History is a project-based learning course that studies the history and geography of Michigan. Major areas of study include: Native Americans of Michigan and the Northwest, the period of French domination and conflict with the British, Michigan's early territorial days, Michigan statehood, and modern issues facing the state.

### **930 Psychology**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Psychology is a college-prep level elective introducing students to human behavior. Psychology will be studied through interactive class discussions, textbook reading, and interactive demonstrations and activities. Units of study include personality, brain and body effects on behavior, sensation and perception, consciousness, motivation, and mental disorder. Students will gain insight into their own conduct as well as the behaviors of others and apply psychological principles to their own lives.

### **932 Sociology**

*Grade Level: 9 - 12; 1 semester (.5 credit)*

*Prerequisite: None*

Sociology is the study of the development and functioning of human society. Areas covered in this course are the study of personality, human nature, culture, family and man in a changing society. The emphasis is on how people reflect their society and the problems they must deal with in modern America. Specific examples of studies and strategies include role-playing, reference groups, values, race, the self, rewards and punishment, marriage, kin groups, economic institutions, conformity, religion, social stratification, and social change.

### **929 Psychology & the Good Life (PILOT)**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

Psychology and the Good Life (PGL) is "the happiness class." It uses the science of psychology to teach students how to live a happier life.

**940 Advanced Placement U.S. History**

*Grade Level: 9 - 12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This is a collegiate-level history class that is as rigorous and demanding as a college American History course. Students will be expected to develop interpretive and analytical skills in dealing with historical materials. They will be expected to present their findings clearly and persuasively in essay form. The subject matter of U.S. history will be dealt with chronologically from colonization to the present. In addition to reading from the text, extensive outside reading and research will be required. Students should plan on taking the Advanced Placement test in the spring.

**928 Advanced Placement World History**

*Grade Level: 11,12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This collegiate-level history class will explore key themes of world history, including interaction with the environment, cultures, state-building, economic systems, and social structures, from approximately 8000 B.C.E. to the present. Learn to apply historical thinking skills including the ability to craft arguments from evidence; describe, analyze and evaluate events from a chronological perspective; compare and contextualize historical developments; and analyze evidence, reasoning and context to construct and understand historical interpretations in a rigorous study of the content.

**936 Advanced Placement Psychology**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

The AP Psychology course is the equivalent in content and difficulty of a college psychology course. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students will learn about the ethics and methods psychologists use in their science and practice. The course provides in-depth knowledge of empirically supported psychological facts, research findings, terminology, and phenomena associated with each of the major content areas within psychology, as well as in-depth knowledge of major figures, perspectives, and experiments in the history of psychology. AP Psychology emphasizes the history of the science, the different theoretical approaches that underlie explanations of behavior, and the many different subfields within psychology. The AP Psychology test is recommended as a way to earn college credit and can be taken in May of the academic year.

**986 Advanced Placement Government**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course provides an in-depth examination of our government through simulations, readings, debates and discussions, covering topics from the creation of our Constitution to the modern applications of our civil rights and civil liberties. This course will prepare students for the Advanced Placement examination in United States Government and Politics. Students will gain a deeper appreciation and understanding of our government. Our focus will be on the following core topics: Constitution/federalism, public opinion and elections, linking mechanisms between the people and the government, institutions of government, public policy, and civil rights and civil liberties. Students will also work toward a deeper understanding of current events and their relationship to our course curriculum.



## Special Education

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

***Prerequisite: Enrollment in Special Education Classes requires students to have an active Individualized Education Plan (IEP) and approval of the student's special education teacher, counselor, and parent.***

### **110/111 Academic Support**

*Grade Level: 9, 10; 1 semester (.5 credit)*

*Prerequisite: IEP*

This course is designed to provide students assistance with coursework, additional time to complete assignments/assessments, re-teaching of concepts and tutorial, support with time management and organization, self-advocacy and understanding IEP accommodation/process, goal setting and a chance to develop and improve their study habits. Students will begin to explore soft job skills, career exploration, identify available community resources that will support post-secondary transition. Students are expected to work on homework at home as well as in academic support.

### **110/111 Academic Support**

*Grade Level: 11, 12; 1 semester (.5 credit)*

*Prerequisite: IEP*

This course is designed to provide students assistance in post-secondary transition awareness and increase employment skills, self-advocacy skills and identify available community resources appropriate for post-secondary support. In addition, students will identify rights and responsibilities necessary for entering post-secondary programs including college, vocational programs and work. Students will be given recommendations for community agencies that may be of use to them as they make the important transition from high school to post-secondary. Students will also receive assistance with coursework, additional time to complete assignments/assessments, re-teaching of concepts and tutorial, support with time management and organization, goal setting and a chance to develop and improve their study habits. Students are expected to work on homework at home as well as in academic support.

### **016/017 Fundamentals of English 9 - LB**

*Grade Level: 9, 2 semesters (.5 credit per semester)*

*Prerequisite: Teacher Recommendation, Special Education Certification*

This course is designed to provide a foundation for understanding literature of all kinds using genres such as fiction, non-fiction, poetry and drama. In addition, this course will emphasize learning and developing the fundamentals of the English language, helping students to speak, write and use effective communication skills. Standard English usage, vocabulary development and working with reference materials will supplement this process. Focus will revolve around reading and reading improvement. Students will spend time learning strategies that will improve comprehension, deepen vocabulary knowledge, and allow for more wide and fluent reading. Through writings and discussions, students will develop their ability to reflect on essential questions related to the themes and issues underlying the texts they read. Additionally, students will enhance their 21st century skills by working collaboratively with their peers and teacher during discussions, in-class tasks, and projects. These strategies will help students be more successful in all of their classes.

**1027 Fundamentals of English 10-LB**

*Grade Level: 9, 2 semesters (.5 credit per semester)*

*Prerequisite: Teacher Recommendation, Special Education Certification*

This course is designed to provide a foundation for understanding literature of all kinds using genres such as fiction, non-fiction, poetry and drama. In addition, this course will emphasize learning and developing the fundamentals of the English language, helping students to speak, write and use effective communication skills. Standard English usage, vocabulary development and working with reference materials will supplement this process. Focus will revolve around reading and reading improvement. Students will spend time learning strategies that will improve comprehension, deepen vocabulary knowledge, and allow for more wide and fluent reading. Through writings and discussions, students will develop their ability to reflect on essential questions related to the themes and issues underlying the texts they read. Additionally, students will enhance their 21st century skills by working collaboratively with their peers and teacher during discussions, in-class tasks, and projects. These strategies will help students be more successful in all of their classes.

**1004/1005 Life Skill-MB**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to allow each student to have encounters with life skill activities such as: cooking skills, money skills, time, communication, interpersonal skills, and household management (cleaning, laundry, etc.), and safety in the community. Students will also be provided with the opportunity to gain job skills and job search skills. This one semester course may be repeated.

**1002/1003 MATH-MB**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to allow students to explore basic math concepts, operations, and applications. Students will practice using math in everyday situations. Money skills, time skills, geometry and measuring are some of the concepts that students will explore. Course work is individualized to each student's needs. This one semester course may be repeated.

**1008/1009 ENGLISH-MB**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This course is designed to allow students to focus on reading, oral and written communication. Reading will be designed with the student's strengths and abilities in mind. Strategies and writing skills will focus on becoming more independent communicators, as well as developing comprehension. Reading will include novels, current events, leisure time pursuits, and gaining information. This one semester course may be repeated.

**1007/1008 SOCIAL STUDIES-MB**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This class will cover concepts in history, civics, geography, economics and current events. Differentiating the past from the present, timelines, movements of people, goods and ideas, physical and human characteristics of a place, regions, and how they are similar, core democratic values, citizen involvement in their community, and current events will be covered. This course will include projects and technological applications. This one semester course may be repeated.

**1020/1021      SCIENCE EXPLORATIONS-MB**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

This class will focus on human biology, life science, basic physics, and basic chemistry. Topics will include human body systems, health and prevention, disease, first aid, genetics, living organisms, and the elements. Work will be supported through text, workbooks, technology, and hands-on experiments and projects. This one semester course may be repeated.

## World Language Department

Courses identified with (\*) as a Visual, Performing, Applied Arts Credit

Courses identified with (+) qualify as a Math Credit

### **320/321 French I**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

French 1 is a year-long course designed for you to begin to learn the language, geography and cultures of French speaking countries. This course is designed around communication by speaking, reading, writing, and understanding written and spoken French. Language acquisition will occur through songs, dances, games, videos, and current events. Various cultural activities supplement the course as well. By the end of French One you will be able to speak and write in basic French while improving upon those skills every day. In addition to being able to speak in basic French, you will also be able to understand basic conversations developed through listening activities.

### **322/323 French II**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: French I and/or teacher recommendation*

French 2 is a year-long course designed for you to improve on learning the language, geography and cultures of French speaking countries. This course is designed around communication by speaking, reading, writing, and understanding written and spoken French. The objective of this course is to perfect the skills learned in French 1 while introducing new concepts in greater detail. The textbook, supplementary materials, audio and video files, grammar games and cultural activities provide an added dimension to the course. This course is conducted primarily in French.

### **324/325 French III**

*Grade Level: 10-12; 2 semesters (.5 credit per semester)*

*Prerequisite: French II and/or teacher recommendation*

French 3 is a year-long course designed to refine the skills of understanding, speaking and writing French. Group work and individual conversations are stressed in this course. The textbook aids in developing the above mentioned skills through exercises designed to improve grammar, vocabulary, composition and idioms. Supplemental reading material provides opportunities to enrich vocabulary and increase proficiency in speaking, reading and writing. Just as in French 1 & 2, cultural activities as well as games are included whenever needed. This course is conducted entirely in French when possible.

### **326/327 French IV**

*Grade Level: 11, 12; 2 semesters (.5 credit per semester)*

*Prerequisite: French III*

French 4 is a year-long course that is designed to reinforce the skills learned in French 1-3 and put them to use in real world situations. French 4 focuses on the culture of Francophone worlds as well. Conversation and composition is a big part of this course. Students will read French books and discuss French literature. French 4 is conducted entirely in French and provides the student with another year of immersion-style learning.

**344/345 French V**

*Grade Level: 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Successful completion of French IV and/or teacher recommendation.*

French 5 is a year-long course and is the culmination of all of the students' years of French. In this course students will read, discuss and write entirely in French. This course focuses less on grammar and vocabulary, but more on culture, literature and art of France and other Francophone countries. This course is designed to be conducted entirely in French so that students can truly fine tune their language skills through speaking and writing.

**350/351 Spanish I**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Spanish 1 is an introduction to the Spanish language and its various cultures. You will learn to communicate in Spanish by expanding your vocabulary, learning new verb forms, and practicing common phrases. You will gain knowledge and understanding of the cultures of Spanish-speaking countries through food, music, stories, and videos. By the end of Spanish 1, you will be able to read, write, understand, and speak beginning Spanish in the present tense!

**352/353 Spanish II**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Spanish I*

Spanish 2 is a continuation and *further* progression of grammar and vocabulary from Spanish 1. In Spanish 2, students will be able to formulate their knowledge of the language across multiple means of communication: speaking, reading, writing, and listening. Students will expand and gain more knowledge of the Spanish language through a variety of vocabulary, while building upon their grammar skills beyond the present tense. In addition, we will explore the language through cultural activities such as music, food, movies/videos, etc.

**354/355 Spanish III**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Spanish II and/or teacher recommendation*

Students develop greater fluency in speaking, writing, reading, and listening in Spanish and will improve their conversation and composition skills. Skits, games, films, and technology are used. This class is conducted in Spanish. Teacher recommendation is required.

**356/357 Spanish IV**

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Spanish III*

This level is to perfect the students' ability to speak, read, understand, and write in Spanish. Learning the culture of Spanish speaking people is also emphasized. Skits, games, films, and technology are used. This class is conducted in Spanish.

**358/359I Spanish V**

*Grade Level: 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Spanish III or IV*

Spanish Immersion is an intensive Spanish 5 class. In this course, students will use all of their prior knowledge from previous Spanish classes and apply it on a daily basis through conversation, debate, essay writing, presentations, role playing, and reading literature. The class will be conducted entirely in Spanish.



# Special Programs

# BELLEVILLE EARLY COLLEGE



Earn an Associate's Degree and a High School Diploma at the same time!

Belleville Early College is a partnership between Belleville High School  
& Wayne County Community College District

---

## Why Enroll?

- Earn an Associate's degree while still in high school
    - **FREE** Tuition & fees; you just buy/rent ½ books
  - Extensive college preparation, including assistance with financial aid
  - Early College Coordinator is with students both at college and high school
  - Supportive educational environment/Sense of community
    - On-site advisor at WCCCD
- 

## Eligibility:

- ★ Apply sophomore year
  - ★ Excel academically and behaviorally
  - ★ Possess maturity and strong personal drive
  - ★ Commit to program Junior, Senior, and Bonus Year
- 

For more information, please visit BEC website at:  
<https://sites.google.com/view/bhsearlycollege>



## BELLEVILLE NEW TECH

### *New Tech - Integrated Courses*

#### **4201/4202, 4114/4115 Biology/Literature: BioLit**

*Grade Level: 9; 2 semesters (1 credit per semester)*

*Prerequisite: None*

This two-hour course will combine biology content with literature skills using project-based learning. This course has the dual purpose of introducing students to basic biological concepts and developing their skills in scientific reading, writing, and seminar presentation. Literacy skills will be developed throughout using both informational texts and fictional literature. The major scientific units covered are genetics, sustainability & ecology, structure/chemistry/division of cells, and ecology. Students will learn reading, writing, and speaking strategies to prepare them for success in their educational endeavors. **Students have the opportunity to earn Honors credit by meeting certain criteria for this course.** Successful completion of the course will provide a Biology credit and an English 9 credit as required by the state for graduation.

#### **4110/4111, 4902/4905**

#### **Government & Economics/English 10: Money, Power, and the American Dream**

*Grade Level: 10; 2 semesters (1 credit per semester)*

*Prerequisite: None*

This course pairing blends the tenth grade concepts of economics, civics (government), and literature. Semester one will focus on the study of civics topics such as federal, state, and local government and their roles in our representative democracy. Semester two will primarily study economic topics such as balancing wants and needs, entrepreneurship, economics systems, etc. Throughout both semesters students will have the opportunity to read multiple texts and write in a variety of genres to build their skills in the language arts as well demonstrate their knowledge of the economic and civics content. The study of the rights and responsibilities of being an American citizen will be presented within a technology rich, project-based learning environment. **Students have the opportunity to earn Honors credit by meeting certain criteria for this course.** Successful completion of the course will provide a Government ½ credit, an Economics ½ credit and an English 10 credit as required by the state for graduation.

#### **4300/4301, 4112/4113**

#### **World History/English 11: Humanity**

*Grade Level: 11; 2 semesters (1 credit per semester)*

*Prerequisite: None*

This course is a two-hour block covering World History and Literature. The course takes a project-based approach to learning. Students' will develop their ability to read, understand, and appreciate different types of historical literature, as well as to improve vocabulary, logical expression, precise word use, and effectiveness in writing and speaking. Units of study include early hemispheric interactions (300 to 1500 C.E./A.D.), the first global age (15th to 18th centuries), the age of global revolution (18th century to 1914), global crises and achievement (1900- 1945), The Cold War and its aftermath (1945-present), and contemporary global issues. **Students have the opportunity to earn Honors credit by meeting certain criteria for this course.** Successful completion of the course will provide a World History credit and an English 11 credit as required by the state for graduation.





## **4120/4121 English 12/Sociology: Senior Capstone**

*Grade Level: 12: 2 semesters (1 credit per semester)*

*Prerequisite: None*

This course critically examines major contemporary social problems from the perspectives of social institutions, culture, inequality, socioeconomic, racial and ethnic groups, special interest organizations, political and economic structures, and social policy. The content of this course analyzes various causes of several major problems including physical health, chemical dependency, crime, poverty, family, discrimination, and urban problems. Additionally, this course explores the impact social problems have on different groups and discusses possible solutions to social problems through the lens of data collection and analysis as well as statistical inferences and conclusions. Furthermore, students will have a distinctive opportunity to volunteer hours to an organization that mirrors an aspect of the social issue they have chosen to master. **Students have the opportunity to earn Honors credit by meeting certain criteria for this course.** Successful completion of the course will provide an English 12 credit as required by the state for graduation as well as a sociology credit.

## **Statistics**

*Grade Level: 10-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course takes a project- and problem-based approach to providing an introduction to probability and statistics. Students will learn how to gather data and how to draw information from the data. Statistics are used in many fields. Students pursuing careers in education, medicine, biology, psychology, or economics will need a working knowledge of statistics. In addition, as seniors who are about to be making many adult life choices, students will learn how statistics impact public policy and voting issues so that they can make informed decisions. Major topics include probability, normal distributions, estimation, random variables, sampling and decision-making. **Students have the opportunity to earn Honors credit by meeting certain criteria for this course.** Successful completion of the course will provide one math credit as required by the state for graduation.

## **4102 Media/Leadership**

*Grade Level: 9 - 12; 1 semester (.5 credit)*

*Prerequisite: None*

In this course, students will learn about different leadership styles and conflict resolution strategies. Students will take on a leadership role within the New Tech program by planning and running New Tech events, developing and sustaining a mentoring program, training in peer mediation, using technology to promote various activities, and contributing to a positive culture within the school. Peer mediators will be used by counselors to help resolve conflicts between students. Successful completion of the course will provide a ½ credit in either Media or Leadership. Course can be taken a second time in order to earn a ½ credit in the other subject.

**4222 PBL Fall Ecology**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This class places an emphasis on using environmental projects to make an impact on our school, community, and state. A focus on how we can help make our environment more sustainable will be an overarching theme. We will use hands-on activities, labs, and critical thinking exercises as well as real world applications to focus on patterns and processes associated with our local ecosystems including soil, trees, biomes, and water. Major activities include working with our local watershed on the pond at BHS, improving recycling at BHS, and redefining our waste stream while working with a team from Waste Management. Successful completion of the course will provide ½ science credit as required by the state for graduation.

**4223 PBL SPRING ECOLOGY: Energy**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This class places an emphasis on using environmental projects to make an impact on our school, community, and state. A focus on how we can help make our environment more sustainable will be an overarching theme. We will use hands-on activities, labs, critical thinking exercises as well as real world applications to focus on patterns and processes associated with our local ecosystems including fossil fuels, alternative energies, pollution, and climate change. Major activities include working with the state of Michigan to earn Green School Status, with UofM Ignite talks on climate change, with the Toyota research facility on alternative energy vehicles, with DTE on Energy Conservation and with William D Ford on Wind Turbine technologies. Successful completion of the course will provide ½ science credit as required by the state for graduation.

**4118 PBL Forensics**

*Grade Level: 9-12; 1 semester (.5 credit)*

*Prerequisite: None*

This course is designed to enhance all of the science skills that have been learned in past science classes taken in Belleville New Tech (Biology, Chemistry, and Physics). Through Forensic techniques, students will take hold of their learning in a student-centered approach that will have students take a deeper dive into scientific understanding to complete several sound forensic investigations. Students will need to rely on collaboration and teamwork to complete the tasks necessary to be successful. Students will learn technical writing as they write lab reports, IAKTs (Individual Assessments of Knowledge and Thinking), and CRAs (College Readiness Assessments). This class will be at a level that prepares students to succeed after high school. Specific topics will include art forgery, handwriting analysis, foot and fingerprinting analysis, ink solvent techniques, melting point of substances, blood analysis (oxygen content), blood typing, blood alcohol content testing, water testing/ pollution testing and solutions, and unknown substance identification. Successful completion of the course will provide ½ science credit as required by the state for graduation.



## ***Teacher Cadet Program***

The Teacher Cadet program provides an opportunity for students to explore the field of education and work directly with young students. Teacher Cadet students learn a wide range of education theory and practice. After completing pre-placement activities, cadets are placed in an internship at The Early Childhood Center of Van Buren Public Schools.

### **1400 Teacher Cadet I**

*Grade Level: 11; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

Teacher Cadet allows students the opportunity to learn and experience the field of education. It gives students the opportunity to explore different career options in the educational system. Students are provided with the technical, academic, and employability skills needed in the field of education and as a community leader. This course instills the basic foundation for those interested in working with students and families.

Students enrolled in this program will have the opportunity to gain knowledge and experience observing, planning and working with pre-school children at The Early Childhood Center of Van Buren Public Schools. Students will be responsible for completing work on class assignments, lesson planning, and observations.

### **1402 Teacher Cadet II**

*Grade Level: 12; 2 semesters (.5 credit per semester)*

*Prerequisite: Teacher Cadet I*

A continuation of Teacher Cadet I. Teacher Cadet II. allows students the opportunity to learn and experience the field of education. It gives students the opportunity to explore different career options in the educational system. Students are provided with the technical, academic, and employability skills needed in the field of education and as a community leader. This course instills the basic foundation for those interested in working with students and families.

Students enrolled in this program will have the opportunity to gain knowledge and experience observing, planning and working with pre-school children at The Early Childhood Center of Van Buren Public Schools. Students will be responsible for completing work on class assignments, lesson planning, and observations.

***Not available 23-24. Scheduled to begin 24-25.***

Belleville High School

## Dual Enrollment Information



---

Dual enrollment is an opportunity for Belleville High School students to enroll in undergraduate courses in college-level accredited institutions and earn college credits while taking high school classes at the same time.

- **Eligibility:**
  - Grades 10-12
  - Good standing and attendance at BHS
  - Self-directed and highly motivated
  - Qualifying placement test score
- **Eligible college classes:**
  - Not taught at BHS
  - Academically or career oriented
  - Transferable to 4 year universities
- **Cost:**
  - Van Buren Schools will cover tuition & books, up to the state allowed amount
  - If a student receives a D or E, they must repay all costs
- **When to sign up:**
  - For first semester classes, February of prior school year
  - For second semester classes, October of current school year
- **How to apply:**
  - See Mrs. Quick for required paperwork and contract
  - Apply online to Washtenaw Community College (many steps)
- **After you are registered at the college:**
  - Bring Dr. Nelson a copy of your college schedule
    - *Your class cannot be paid for without this*
  - AFTER attending the first day of class, email Mrs. Quick with the exact book title and ISBN number that you need. Follow up with her about directions to pick up your book.
- **After you take the class at the college:**
  - Request the official college transcript to be sent to the Belleville High School Guidance Office.



**Early College Alliance <sup>sm</sup>**

The Early College Alliance (ECA) is a unique educational program designed to fully immerse high school-aged students into the post-secondary learning environment. ECA is a public, early/middle college program located on the campus of Eastern Michigan University. It exists in partnership with local school districts, including the Washtenaw Intermediate School District.

The program gives students an opportunity to earn college credits while still in high school and offers strong, academically focused students a chance to enroll in advanced, college-level coursework. It also provides an alternative for students who may not feel connected to their school.

ECA allows students to:

- Graduate from high school with a diploma and up to 60 college credits.
- Attend classes on a university campus with support.
- Learn in a college environment that fosters maturity and academic growth.
- Gain vital skills for college success.

ECA is funded through a percentage of each district's foundation allowance and continues seeking additional funding through both public and private sources.

ECA is recognized by the Michigan Department of Education as a Four Plus One program. Students can participate in the program a year past what would have been their graduation year, while not negatively impacting the district's Adequate Yearly Progress. This is an added benefit to the district and to the student.

**[Click Here for more on ECA@EMU](#)**

# Geographic Information Systems

*STRONG BEGINNINGS, BRIGHT FUTURES!*

## HIGH-WAGE, HIGH-DEMAND

Van Buren Public Schools part of consortium promoting path to GIS careers

**S**tudents interested in Geographic Information Systems careers will have a unique opportunity through the Van Buren Public Schools starting this year.

VBPS, in partnership with businesses, higher-education institutions and other school districts, has successfully obtained a grant of \$988,707 under the State of Michigan's Marshall Plan for Talent program, which started in 2017 under then-Gov. Rick Snyder.

The grant will be used to prepare students in the field of geospatial technologies, which can lead them to careers in GIS – a skill that's in high demand in government, engineering, environment, public safety, agriculture and the military among other sectors.

Students who enroll in the program will have an opportunity to take specific courses related to GIS, allowing them to receive university credit toward a GIS certification. Students will also receive mentoring from experts in the field, and the opportunity to participate in paid internships.

VBPS serves as the fiscal agent for the consortium, which means others will share the money, with VBPS taking responsibility for distributing the funds.

The program has four goals:

1. Enabling students to achieve high-demand, high-wage careers by learning GIS-related skills.
2. Enabling students to earn Industrial GIS certifications

through a combination of instruction and hands-on experience.

3. Providing students with options for earning university dual enrollment credits to help set them up for an advanced geospatial technology career.
4. Providing professional development opportunities for teachers so they can integrate GIS as learning and teaching tools in STEM courses.

The development program is two years long, and was designed by Environmental Systems Research Institute, a prominent GIS software developer and distributor.

The goal of the program is to involve 60 high school students and 20 teachers.

In February 2017, then-Gov. Rick Snyder announced his Marshall Plan for Talent – an ambitious initiative to spend more than \$100 million over five years reconstituting the way

Michigan approaches the preparation of its young people for the workforce.

The Marshall Plan for Talent represents a shift away from the long-established choice between college and low-skill work, encouraging educators, communities and companies to partner more closely on efforts to train people for good-paying jobs and connect them to opportunities.

The grant obtained by the consortium including VBPS was the last round of funding currently available under the Marshall Plan for Talent.



# Geographic Information Systems (GIS)

## Course Descriptions

Courses identified with (+) qualify as a Math Credit

### **386 GEOG 101 - Introduction to GIS<sup>+</sup>**

*Grade Level: 11; 1 semester (.5 credit)*

*Prerequisite: None*

This is the first of three courses designed to prepare students for technical certification and professional internships in GIS. Emphasis is placed on the basics of GIS and introduces students to fundamentals of ArcGIS Pro. No prior knowledge or experience with GIS required.

### **387 GEOG 201 - Fundamentals of GIS Analysis<sup>+</sup>**

*Grade Level: 12; 1 semester (.5 credit)*

*Prerequisite: GEOG 101*

This is the second of three courses designed to prepare students for technical certification and professional internships in GIS. Emphasis is placed on using ArcGIS Pro software for mapping, visualization, analysis and management of geospatial data.

### **398 GEOG 301 - GIS Internship Bootcamp<sup>+</sup>**

*Grade Level: 12; 1 semester (.5 credit)*

*Prerequisite: GEOG 201*

This third of three courses designed to prepare students for technical certification and professional internships in GIS. Emphasis is placed on specific techniques for employers' internship assignments. Curriculum is developed in collaboration with internship providers and is designed to enable students who complete this class to enter an internship fully prepared to independently undertake standard GIS workflows. Prerequisites include GEOG 101 and GEOG 201 or equivalent (with permission of instructor).



# MIAT College of Technology



MIAT will select students for the program based on: 1) Career Interest, 2) Application, 3) Algebra, Geometry Grades (C or better) 4) School Attendance 5) 11th Grade Status 6) Extra Curricular Activities, and Guidance Counselor Recommendation. *All courses\*+*



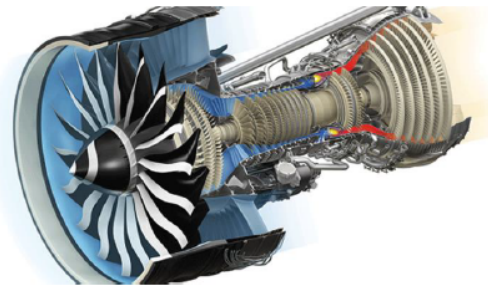
To parents and/or students,

I would like to share an opportunity to participate in a vocational course offered by MIAT College of Technology. For students who qualify, the course takes place during Junior and Senior year. The course is designed for the "HANDS ON" learner and can lead to a rewarding career in Aviation Maintenance. Best of all it is at ***NO TUITION COST*** to the student!

## COURSES OFFERED

### ***Powerplant Technology:***

Learn how to become a certified Powerplant Technician in MIAT's Powerplant Technology Program (CTE). The course will take the student through basic aviation terms, regulations, and practices which will allow him/her to overhaul and maintain aircraft engines! This is an ideal program if you enjoy working with your hands and want a jump start as an Aircraft Mechanic.



### ***Avionics Technician:***

Learn how to become an Aircraft Electronics Technician in MIAT's Avionics Program (CTE). The course will take the student through basic aviation maintenance courses, through an advance airframe electrical course, and will prepare the student to test for multiple certificates in electronics! This is an ideal program if you want a jump start into Aircraft Maintenance and have an interest in electrical or electronics.

### ***To see if you qualify:***

On the reverse side of this letter is an application for the program. Please complete and turn into your counselor. Your counselor will determine if you have enough credits to participate in this course. Slots are limited. If you have any questions feel free to email me at [tlittle@miat.edu](mailto:tlittle@miat.edu).

Sincerely,

  
Thomas Little - CTE Manager

MIAT College of Technology  
2955 S. Haggerty Road, Canton, MI 48188  
734.423.2100 \* [info@miat.edu](mailto:info@miat.edu)

Accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC)





## High School Program Application Career Technical Education (CTE)

This is the initial application to MIAT College of Technology for high school students who wish to take courses at MIAT before high school graduation. The courses are 3 hours per day throughout the week and will operate either the 1<sup>st</sup> or 2<sup>nd</sup> half of the school day.

### SECTION A: Student and Parent Information

Student Name

\_\_\_\_\_  
First Middle Last

Address

\_\_\_\_\_  
Number Street City State Zip

\_\_\_\_\_  
E-Mail Telephone ☐ Cell ☐ Home Date of Birth (dd/mm/yyyy)

High School

\_\_\_\_\_  
Name City Current Grade

Parent Name

\_\_\_\_\_  
First Middle Last

\_\_\_\_\_  
E-Mail Telephone ☐ Cell ☐ Home Alternate Telephone

### SECTION B: Program Choice and Signatures

- ☐ **Aviation (Powerplant Technology)** – 2 year program for incoming Juniors. 1 year available for Seniors  
1<sup>st</sup> Year – September – July (11:45-2:35pm) / 2<sup>nd</sup> Year – September – June (7:30-10:20am)
- ☐ **Avionics\*** – 2 year program for incoming Juniors. 1 year available for Seniors  
1<sup>st</sup> Year – September – May (11:45-2:35pm) / 2<sup>nd</sup> Year – September – May (7:30-10:20am)

**\*Program offered only with participating districts**

I understand grades and attendance are a factor in acceptance to the MIAT CTE program. I authorize my high school's official listed below to release my official transcript and attendance record for purpose of review and consideration of acceptance into the program.

\_\_\_\_\_  
Student Signature Date

\_\_\_\_\_  
Parent/Guardian Signature Date

### SECTION C: To be completed by High School Counselor

I certify that the above-named student is currently enrolled at \_\_\_\_\_ High School and is currently in the \_\_\_\_\_ grade. By signing below, I authorize this student to participate in MIAT's CTE Program for the upcoming school year. The student has demonstrated the capacity and maturity to benefit from this program. **EMAIL completed application to [tlittle@miat.edu](mailto:tlittle@miat.edu).**

\_\_\_\_\_  
Signature of Counselor Date

\_\_\_\_\_  
Printed Name Email Address

Rev. 11.07.2020

## **Navy Junior ROTC Program**

### ***NJROTC***

The Naval Service Training Command routinely updates the curriculum to include new texts, instructional materials and lesson plans. The curriculum is developed and revised by civilian educators and NJROTC instructors. The wide variety of subjects includes the following:

- CITIZENSHIP -- Instillation of values of good, responsible citizenship.
- NAVAL ORIENTATION -- Basic introduction to the Navy's customs and traditions.
- NAVAL OPERATIONS/ORGANIZATION -- Familiarization with national naval strategy and daily military operations.
- NAVAL HISTORY -- History of the United States Navy from the colonial period to the present.
- NAVIGATION -- Introduction to piloting and navigation.
- SEAMANSHIP -- Introduction to basic seamanship and ship handling.
- LEADERSHIP -- Ongoing study of leadership, with opportunities to develop leadership abilities.
- NAUTICAL ASTRONOMY -- Study of astronomy and its use in navigation.
- ELECTRONICS -- Introduction to electronics as the basis for communications and weapons systems.
- OCEANOGRAPHY -- Information on the collection of data on the world's ocean systems.
- DRILLS, COMMANDS, AND CEREMONIES -- Close order drill and parade ceremonies.
- PHYSICAL FITNESS -- Activities to promote healthy, active lifestyles.



## Naval Junior ROTC Curriculum Description

### 988 Naval Junior ROTC 1

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: None*

**PURPOSE:** To introduce students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; promote an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress; drug awareness; provide the principles of health and first aid, geography and survival skills and an overview of Naval ships and aircraft. These elements are pursued at the fundamental level.

**COURSE CONTENT:** Includes introduction to the NJROTC program; introduction to Leadership, Citizenship and the American Government; introduction to Wellness, Fitness, and First Aid to include diet, exercise and drug awareness, introduction to Geography, Orienteering, Survival and Map Reading Skills; Financial Skills and introduction to the U. S. Navy.

### 900 Naval Junior ROTC 2

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Naval Science 1*

**PURPOSE:** To build on the general introduction provided in Naval Science 1, to further develop the traits of citizenship and leadership, and to introduce cadets to the technical areas of naval science and the role of the U. S. Navy in maritime history and the vital importance of the world's oceans to the continued well-being of the United States.

**COURSE CONTENT:** Includes ongoing instruction into Leadership; introduction to Maritime History, including the American Revolution, Civil War, the rise of the U. S. to world power status, World Wars 1 and 2, the Cold War Era and the 1990s and Beyond; introduction to Nautical Sciences to include Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Sciences.

### 901 Naval Junior ROTC 3

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Naval Science 2*

**PURPOSE:** Broaden the understanding of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, and the importance of sea power and national security. Students gain a more in-depth knowledge of Naval ships and aircraft and an introduction to marine navigation and seamanship.

**COURSE CONTENT:** Includes instruction in Sea Power and National Security, Naval Operations and Support Functions, Military Law, and International Law and the Sea. Provides introduction to Ship Construction and Damage Control, Shipboard Organization and Watch Standing, Basic Seamanship, Marine Navigation, and Naval Weapons and Aircraft. Ongoing instruction in leadership, citizenship and discipline.

### 989 Naval Junior ROTC 4

*Grade Level: 9-12; 2 semesters (.5 credit per semester)*

*Prerequisite: Naval Science 3*

**PURPOSE:** Focused primarily on practical leadership techniques and implementation. The intent is to assist seniors in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. Seniors are mentored/guided in their preparation for life after high school to include college preparation, scholarship applications, and the variety of choices that are available to them.

**COURSE CONTENT:** Includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long range life goals.



*All courses\*+*

### **Architectural and Engineering Design I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will use Computer Aided Drafting and Design (CAD) software to plan, prepare, and interpret architectural and mechanical sketches. Students will apply learned skills and knowledge to construct drawings that support manufacturing, construction, robotics, and 3D printing. Advanced students will develop a portfolio to support attainment of employment as a designer.

#### **Licenses/Certifications Available:**

- OSHA 10
- Precision Exam - CAD Mechanical Design I
- Precision Exam - CAD Mechanical Design II
- Precision Exam - CAD Architectural Design I
- American Heart Association Heartsaver First Aid, CPR, AED

### **Architectural and Engineering Design I,II with Embedded Algebra II**

*Grade Level:11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Automotive Body I, II**

*Grade Level: 11-12; 2 semesters (1.5 credit per semester)*

*Prerequisite: None*

Students will repair, restore, and refinish vehicles to original condition using the grinders, polishers, air sanders, sheet metal pullers, and advanced painting equipment used by industry professionals. Advanced students will learn the principles of frame and unibody straightening and have opportunities to create custom modifications.

#### **Licenses/Certifications Available:**

- ASE Certification Paint and Refinishing
- ASE Certification Non-Structural Analysis & Damage Repair
- OSHA 10, OSHA 30
- S/P2 Safety Training
- American Heart Association Heartsaver First Aid, CPR, AED

### **Automotive Body I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Automotive Technology I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will have the opportunity to learn through hands-on, high quality instruction working alongside Automotive Service Excellence (ASE) technicians. This full-service, interactive automotive lab prepares students in shop practices, customer service, tool use, safety, diagnostic testing, and repair strategies. Theory and practice are combined to support students in performing basic service in engine repair, engine performance, electrical systems, suspension and steering, brake systems, and heating and air-conditioning.

### **Licenses/Certifications Available:**

- ASE Brakes
- ASE Electrical
- ASE Maintenance Light Repair
- Michigan Mechanic License

American Heart Association Heartsaver First Aid, CPR, AED

## **Automotive Technology I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Construction Technology I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Beginning with safe use of hand and power tools, this course will guide you through most of the steps you need to know to build a house. Learn to read and follow a blueprint, and estimate materials, labor costs, and even profit! All aspects of framing including floors, walls, staircases, and roof systems are covered. You will learn to install drywall, siding, shingles, windows, door, baseboards, electrical, plumbing, and much more. Next year, build or remodel a house in Construction Technology II.

### **Licenses/Certifications Available:**

- Michigan 60 Hour Builders License
- OSHA 10
- OSHA 30
- American Heart Association Heartsaver First Aid, CPR, AED

## **Construction Technology I, II with Embedded Algebra II**

*Grade Level: 11-12; 2 semesters (1.5 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Culinary Arts and Hospitality I, II**

*Grade Level: 11-12; 2 semesters (1.5 credit per semester)*

*Prerequisite: None*

Students cook alongside professional chefs to create gourmet cuisine and decadent menus. Direct instruction is provided in food preparation and cooking, menu design, staffing and scheduling, and financial management. Students also explore the fundamentals of the hospitality and tourism industries and use industry tools, equipment, and technology to lead the operation of a restaurant and catering enterprise.

#### **Licenses/Certifications Available:**

- ServeSafe Allergens
- ServSafe Food Handler
- ServSafe Manager
- American Heart Association Heartsaver First Aid, CPR, AED

### **Culinary Arts and Hospitality I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Cyber Security and Ethical Hacking**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

Students are introduced to basic computer and technology security principles involving networks and operating systems. Learning will be focused on identifying system threats and eliminating these weaknesses. Students will gain an understanding of the principles of risk management, security architecture, and disaster recovery by practicing cyber-security response measures within simulated hacking environments.

#### **Licenses/Certifications Available:**

- CompTIA A+
- CompTIA Network+
- CompTIA Security+
- American Heart Association Heartsaver First Aid, CPR, AED

### **Digital Art and Design I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will prepare for careers that communicate ideas and information. Students will learn graphic communication and graphic design and use industry specific tools and the Adobe Creative Suite to create brand identifications and digital products. Advanced students will participate in local and national contests in order to create a portfolio to showcase their work for use in securing employment and/or applying for college.

#### **Licenses/Certifications Available:**

- Precision Exam - Digital Media
- American Heart Association Heartsaver First Aid, CPR, AED

### **Digital Art and Design I, II with Embedded Algebra II**

*Grade Level: 11-12; 2 semesters (1.5 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Digital Photography & Media I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students gain practical knowledge of digital photography to support preparing for careers in the multiple pathways that communicate ideas and information to the public. Students will be introduced to a variety of digital media used in fine art and commercial photography, social media marketing, and website implementation. Portfolios will be compiled to support students in the transition to career and college.

### **Licenses/Certifications Available:**

- Precision Exam - Commercial Photography I
- Precision Exam - Commercial Photography II
- American Heart Association Heartsaver First Aid, CPR, AED

## **Digital Photography & Media I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Emergency Medical Technician (EMT)**

*Grade Level: 11-12; 2 semesters (1-1.5 credits per semester)*

*Prerequisite: None*

Students will explore careers in emergency medicine and prepare to become an emergency medical service provider. They will learn to think fast and to adapt to ever-changing environments. Students will explore and practice the basics of pre-hospital care, including oxygen management, bleeding control, and c-spine immobilization, preparing them to complete a minimum of 24 clinical hours in an ambulance and 12 clinical hours in an emergency room.

### **Licenses/Certifications Available:**

- American Heart Association Basic Life Support
- Hazmat Materials Awareness
- National Registry Emergency Medical Technician B

## **Film and TV Media I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will investigate careers in mass media, with an emphasis on film production and broadcast journalism. Students will gain experience in pre-production, production, and post-production, using professional audio and video equipment to create both live action films and interactive multimedia animations. Students will gain additional skills in script writing, creative direction, storyboarding, location scouting, and acting. Advanced students will work on client projects and begin to build a professional portfolio.

### **Licenses/Certifications Available:**

- Precision Exam - Video Production I
- American Heart Association Heartsaver First Aid, CPR, AED

## **Film and TV Media I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Firefighting**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will learn the basics of safety, fire prevention and public education, fire control, and rescue and extrication. Students will use industry specific equipment, such as fire trucks, hoses, protective clothing, fire service hand tools, and The Jaws of Life to put theory into practice as they learn the skills necessary to begin a career with a fire department. Students are exposed to a Chain of Command style of instruction where they are taught to follow orders, work as a team, and practice routine skills on a daily basis.

Students take biweekly field trips to Wayne County Community College District's Michigan Institute for Public Safety Education to complete practicum hours required for certification. This state-of-the-art, 10-acre, \$6 million facility houses a 5-story fire tower, a 12,000 square-foot training center, a 50,000 square-foot driving training area, and a man-made lake for water rescue simulations.

### **Licenses/Certifications Available:**

- American Heart Association Basic Life Support
- Hazmat Materials Operations Level
- State of Michigan Firefighter I
- State of Michigan Firefighter II

## **Firefighting (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

## **Game Design and Programming I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: Strong computer and math skills*

Students explore information technology topics in web development, application development, and computer programming. Students learn to write code to power game design and robots. Students use advanced programming languages such as python to complete projects using Visual Studio Code and Godot. Students compile projects into a professional portfolio to showcase their ability.

### **Licenses/Certifications Available:**

- Precision Exam - Computer Programming I
- American Heart Association Heartsaver First Aid, CPR, AED

## **Game Design and Programming I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.



## **Health Occupations I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students learn basic anatomy and physiology, adult patient care, first aid, CPR, medical terminology, medical math, and the theory of nursing care. Clinical practicum hours provide students the opportunity to provide quality care alongside experts in the field and develop professional relationships with nursing home residents. Types of skills include feeding, bathing, toileting, and assistance with daily living activities.

### **Licenses/Certifications Available:**

- CNA - Certified Nurse Assistant
- PCT - Patient Care Technician
- American Heart Association Basic Life Support
- American Heart Association First Aid CPR, AED

## **Health Occupations I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Heating/Air Conditioning/Refrigeration I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will learn to diagnose, maintain, install, and repair residential and commercial heating and air conditioning systems. Students will learn safety, basic electricity, electronics, refrigeration, and ventilation. Students will use industry tools to design, wire, and fabricate sheet metal ductwork.

### **Licenses/Certifications Available:**

- EPA 608
- H.E.A.T.
- OSHA 10
- American Heart Association Heartsaver First Aid, CPR, AED

## **Heating/Air Conditioning/Refrigeration I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **Law and Public Safety**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will learn the basics of The Michigan Compiled Law, legal services, law enforcement, dispatch, and emergency management. Students will perform the duties of police and public security officers in simulated learning sessions. Students will use industry specific equipment, such as police cars, protective clothing, communication devices, and public safety hand tools to put theory into practice as they learn the skills necessary to begin a career with a public safety department. Simulations will include patrol, investigation, traffic and crowd control, public relations, witness interviewing, evidence collection and management, and court procedures. Advanced students will explore crime prevention, risk assessments, and dignitary protection. Students are exposed to a Chain of Command style of instruction where they are taught to follow orders, work as a team, and practice routine skills on a daily basis.

### **Licenses/Certifications Available:**

- National Basic 9-1-1 Dispatch
- National Law Enforcement Certification
- International Foundation for Protection Officers Certified Protection Officer

### **Medical Assisting I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

*Students will gain clinical and administrative skills necessary for employment in an outpatient medical facility. Students will learn anatomy and physiology and medical terminology. Students will practice clinical skills including vital signs, height and weight, injections, medication administration, vision screening, and basic laboratory procedures. Students will perform basic administrative tasks including patient accounting, insurance billing and coding, appointment scheduling, and medical office management. Clinical practicum hours will provide students the opportunity to provide quality care alongside experts in healthcare.*

#### **Licenses/Certifications Available:**

- CCMA - Certified Clinical Medical Assistant
- American Heart Association Basic Life Support
- American Heart Association First Aid
- OSHA Bloodborne Pathogens
- American College of Surgeons Stop the Bleed

### **Medical Assisting I, II (Plus Math Course)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Robotics and Engineering I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will use high-tech engineering technologies to invent, design, and build solutions that meet the needs of a technologically advancing world. Students will learn core foundational skills for design processes, power, machines, quality, and fabrication. Students will program and operate industrial robots and machines to create products from engineering blueprints and specifications.

#### **Licenses/Certifications Available:**

- OSHA 10
- Snap On Precision Measuring Instruments
- American Heart Association Heartsaver First Aid, CPR, AED
- SACA

### **Robotics and Engineering I, II with Embedded Algebra II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Sports Medicine and Exercise Science**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will explore the science of human health by designing a systematic approach learning body structures, their functions and the concept of therapeutic intervention of athletic injuries and increasing human performance in sports. Students will also learn various aspects of fitness training including resistance training, body composition and nutrition, flexibility, agility, and more. Students will be able to design, implement, modify, track and update fitness training programs based on individual needs.

#### **Licenses/Certifications Available:**

- American Medical Certification Association Physical Therapy Aide
- Athletics and Fitness Association of America Personal Trainer
- American Heart Association Heartsaver First Aid, CPR, AED

### **Sports Medicine and Exercise Science (Plus Algebra II)**

*Grade Level: 11-12; 2 semesters (1 credit per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

### **Welding Technology I, II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Students will learn to use electricity and fire to design, join, dismantle, and fabricate a wide range of materials using multiple different welding processes. Students will use advanced equipment and techniques to join, cut, bend, and manipulate metals including Carbon Steel, Stainless Steel, and Aluminum. Students will also be exposed to common industrial safety practices and learn to take measurements, read blueprints, and fit together weldments to support their application of Gas Metal, Shielded Metal, Flux Core, and Gas Tungsten Arc Welding processes.

#### **Licenses/Certifications Available:**

- AWS Sense Level I - Entry Level Welder
- OSHA 10
- American Heart Association Heartsaver First Aid, CPR, AED

### **Welding Technology I, II with Embedded Algebra II**

*Grade Level: 11-12; 2 semesters (1.5 credits per semester)*

*Prerequisite: None*

Successful completion of this class will fulfill the Algebra II graduation requirement.

## **VAN BUREN PUBLIC SCHOOLS DISTRICT COMPLAINT PROCEDURE**

In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Title II of the Americans with Disability Act of 1990, and Elliott-Larsen Civil Rights Act of 1977, it is the policy of the Van Buren Public Schools District that no person shall, on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to, discrimination during any program, activity, service or in employment. Should you need to contact someone about discrimination of any kind in the school district, contact the Director of Personnel at 555 West Columbia Avenue, Belleville, MI 48111 or (734)697-9123, ext. 1009.

*Questions or concerns that relate to sex discrimination should be directed to:*

Human Resources  
Coordinator of Title IX Coordinator of Title VI  
Van Buren Public Schools  
555 West Columbia Avenue  
Belleville, Michigan 48111  
Phone - (734) 697-9123, Ext. 1009

*Inquiries regarding discrimination on the basis of handicaps should be directed to:*

Coordinator of Section 504 and Title II (A.D.A.)  
Van Buren Public Schools  
555 West Columbia Avenue  
Belleville, Michigan 48111  
Phone - (734) 697-9123, Ext. 1006

### **INFORMAL PROCEDURE**

The person who believes he/she has a valid basis for complaint shall discuss the concern with the appropriate coordinator, who shall in turn investigate the complaint and reply to the complainant in writing within two (2) business days. If this reply is not acceptable to the complainant, he/she may initiate formal procedures according to the steps listed.

## **FORMAL GRIEVANCE PROCEDURE**

STEP 1: A written statement of the grievance shall be prepared by the complainant and signed. This grievance shall be presented to the appropriate Coordinator within five (5) business days of receipt of the written reply to the informal complainant. The Coordinator shall further investigate the matters of the grievance and reply in writing to the complainant within five (5) business days by certified mail.

STEP 2: If the complainant wishes to appeal the decision of the Coordinator, he/she may submit a signed statement of appeal to the Superintendent of Schools within five (5) business days after receipt of the local Coordinator's response to the grievance. The Superintendent shall meet with all parties involved, formulate a conclusion, and respond in writing to the grievance within ten (10) business days by certified mail.

STEP 3: If the complainant remains unsatisfied, he/she may appeal through a signed, written statement to the Board of Education within five (5) business days of his/her receipt of the Superintendent's response in Step 2. In an attempt to resolve the grievance, the Board of Education shall meet with the concerned parties and their representatives within fifteen (15) business days of the receipt of such appeal. The Board Secretary shall send a copy of the Board's disposition of the appeal to each concerned party within ten (10) business days of this meeting by certified mail.