

Brighton High School Curriculum Guide

2024 - 2025

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Introduction

This curriculum guide acquaints both parents and students with the curricular offerings at Brighton High School. We believe that the best curricular choices are made by students who have carefully read this book and who have also explored their potential career goals with their parents. Good decisions at this time will enhance possibilities after high school. Students should design a four-year program during the ninth grade, making changes as new ideas and information make it necessary.

Counselors

Class of 2025 Ms Ashley Grossfeld	Class of 2026 Mr Jeff Miner
Class of 2027 Mrs Jennifer Caverly	Class of 2028 Mrs Jody Petit
Online Counselor Mr Barry Goode	

It is the responsibility of the counselors to help students plan a program that satisfies the graduation requirements of the school. It is also their role to recommend courses that reflect the future goals of the students and to help review course programs with parents/guardians and students.

Graduation Requirements:

All students must meet the following course requirements listed below. Earn twenty-two (22) credits in the following areas:

English	4 credits
Literature and Comp 9, or Honors Literature and Comp 9, American Literature, or Honors American Literature & Comp, Literature and Comp 11, or Honors Literature & Comp 11	
World Literature or AP Literature/AP Language or electives	
Mathematics	4 credits
Algebra I	
Geometry	
Algebra II	
**One math course in senior year	
Science	3 credits
Biology	
Chemistry	
Physics or a 3rd science elective course	
Social Studies	3 credits
United States History	
World History	
Civics (semester class)	
Economics (semester class)	
World Language	2 credits
Health Education	½ credit
Physical Education	½ credit
Visual, Applied or Performing Arts	1 credit
Electives	6 credits

**May be replaced with a elective math option if student has successfully completed Algebra II

Credit Options

Fourth Year Math Credit Options

Accounting
Advanced Marketing
Agriculture Science I & II
Architectural Computer-Aided Drafting and Design
Automotive Technology I, II, Advanced
Computer Network Engineering
Construction Trades I & II
Culinary Arts & Hospitality
Early Childhood Education
Energy Technology
Engineering Robotics I & II
Engineering Applications
Engineering Design Technology 1
Engineering Design Technology 2
Introduction to Machining & Prototyping
Entrepreneurship
Graphic Communications I & II
Manufacturing
Personal Finance
A P Physics I, A P Physics 2
Programming Game Development
Robotics & Automation Technology I & II
A P Music Theory
A P Computer Science Principles
A P Computer Science A
Welding
WRAP/Work Study

*Visual, Performing or Applied Arts Credit Options

Art – all department courses
Automotive Technology - all courses
Business – Marketing I, Advanced Marketing, Social Media Marketing, Web Design, Programming - Game Development, AP Computer Science
English – Drama, Performing Arts, Yearbook, Video Production (Media 1 & 2), Communication Design for Professional Settings, Technical Communication
Family and Consumer Sciences – Education Careers; Housing and Interior Design, Bake Shop, Teacher Cadet, LINK, Culinary, Fashion Design & Merchandising
Health Occupations - all courses
Leadership
Music – all department courses
Technology and Industry – all department courses
Out of District Courses - Agriculture Science I & II, Construction Trades I & II, Cosmetology, Culinary Arts & Hospitality, Cyber Security & Computer Networking, Advanced Cyber Security & Computer Networking, EMT, Energy Technology, Firefighter I & II, JROTC, Manufacturing, Private Pilot Ground School I & II, Robotics & Automation Technology I & II, Welding

*CTE Credit Options for 2nd World Language Credit

Automotive Department

Automotive Technology I
Automotive Technology II
Advanced Automotive Technology

Child Development

Education Careers
Teacher Cadet

Computer Science

AP Computer Science A
AP Computer Science Principles

Digital Multimedia Program (select two of the three courses)

Programming Game Development
Social Media Marketing
Web Design

Engineering Program

Engineering Applications (Mechanical/Architecture) Year Long Course
Engineering Design Technology I & Engineering Design Technology 2
Engineering Applications - 2 Hour Block
Engineering Robotics Technology 1,2
Architectural Computer Aided Drafting and Design
Introduction to Machining & Prototyping

Finance Program

Accounting

Graphics Program

Graphic Design - Year Long

Graphic Communications I & II- Two Hour Block
Advanced Graphics & Signage

Health Occupation Program

Health Occupation - all courses

Marketing Program

Marketing - Year long course
Advanced Marketing - 2 Hour Block
Entrepreneurship
Entertainment and Sports Marketing
Social Media Marketing

Out of District Courses

Agriculture Science I & II, Construction Trades I & II, Cosmetology, Culinary Arts & Hospitality, Cyber Security & Computer Networking, Advanced Cyber Security & Computer Networking, EMT, Energy Technology, Firefighter I & II, JROTC, Manufacturing, Private Pilot Ground School I & II, Robotics & Automation Technology I & II, Welding, Phlebotomy

Civics Credit Option

AP US Government

***1 Full additional credit of the Visual, Performing or Applied Arts Credit Option, or 1 Full CTE Credit Option may replace the 2nd World Language Credit.**

For additional information, contact your counselor

Senior Class Rank

A senior's class rank is based on the average of all semester grades earned by the end of the seventh semester. The scale used to compute class rank is listed below. The following values have been assigned to each letter grade:

Letter Grade	Points	Percentage	AP - Points
A	4.00	92.5 - 100	5.00
A-	3.67	89.5 - 92.49	4.67
B+	3.33	86.5 - 89.49	4.33
B	3.00	82.5 - 86.49	4.00
B-	2.67	79.5 - 82.49	3.67
C+	2.33	76.5 - 79.49	3.33
C	2.00	72.5 - 76.49	3.00
C-	1.67	69.5 - 72.49	2.67
D+	1.33	66.5 - 69.49	2.33
D	1.00	62.5 - 66.49	2.00
D-	.67	59.5 - 62	1.67
E	0.00	Failing	0.00
G		Credit for Course	
I	0.00	Incomplete	0.00
W		Withdrew	

The official class rank and grade point average are computed after the completion of the seventh semester.

Report Cards

Report cards are issued four times a year. **Only semester grades** are recorded on the student's permanent transcript record. All incompletes must be removed from the record before credit can be given, as per Board Policy. The Parent-Student Handbook states: "When in a teacher's opinion, illness or other valid reasons have interfered with the student's ability to meet class deadlines, an incomplete can be given rather than a grade. In such cases each student will have three (3) weeks to complete the work. Failure to comply with this condition or make other administratively approved arrangements will result in a failing grade."

Progress Reports

Mid-term reports will be posted on-line at the mid-point of each marking period. Weekly progress reports are also available from teachers at parent/guardian request. Students must take responsibility for circulating these forms.

Schedule Changes

All class choices are firm commitments for the school year. Master schedule decisions are based on the course selections of the students. Schedule changes may be requested during the summer registration week and need to occur before the school year starts. Once classes begin the only class changes considered are due to academic failures, mechanical scheduling errors, or staff-initiated academic changes. These will be corrected by the student's counselor.

Advanced Placement Programs

Brighton High school offers a variety of Advanced Placement courses in the areas of Mathematics, English, Science, and Social Studies. These classes offer students the opportunity to earn college credit while still in secondary school. Students should meet the prerequisite requirements listed in the course descriptions and must complete an AP permission form for each advanced placement class requested. Below are the offered AP courses:

AP Literature & Composition	AP Psychology
AP Language & Composition	AP European History
AP Calculus AB	AP U.S. History
AP Calculus BC	AP World History
AP Pre-Calculus	AP Government
AP Statistics	AP Comparative Government & Politics
AP Biology	AP Macroeconomics
AP Chemistry	AP Microeconomics
AP Environmental Science	AP Computer Science Principles
AP Physics I	AP Computer Science A
AP Physics 2	AP Music Theory

Weighted Grades

The Brighton High School grading system is based on a 4.0 grading scale. AP classes are weighted on a 5.0 scale. Students will receive a weighted grade only if the class is taken when offered in the designated grade level per the curriculum guide. Students taking an AP class online or in a grade level not noted in the curriculum guide or a transfer credit from another school will NOT receive a weighted grade. Their grade(s) will be based on a 4.0 scale.

Brighton Area Schools does not discriminate on the basis of race, color, national origin, sex, (including sexual orientation or transgender identity), disability, age, religion, height, weight, marital or family status, military status, ancestry, genetic information, or any other legally protected category (collectively, "Protected Classes"), in its programs and activities, including employment opportunities

Middle School Credit Transfers

Algebra I and Geometry

Algebra and/or Geometry taken in middle school will be used for progression to advanced math but will not be used to meet the four-year credit requirement set forth by Michigan Merit Curriculum. Students will still be required to complete 22 credits in high school, including 4 math credits and including a math credit senior year, for graduation from Brighton High School. Students receive a letter grade for this class taken in middle school, but this grade does not compute into their high school GPA.

World Language

World Language or American Sign Language taken in middle school may be used to gain entry into World Language or ASL classes at Brighton High School. World Language and ASL may be used to meet the two-year World Language requirement set forth by Michigan Merit Curriculum. Students will still be required to complete 22 credits in high school, for graduation from Brighton High School. Students receive a letter grade for these classes taken in middle school, but the grades does not compute into their high school GPA. Credits must be completed in the same World Language.

Testing Out

Under Michigan law, (MCL 380 1279b) a student who chooses to receive credit for a high school course without enrolling in the course may do so by attaining a passing grade of not less than 78% for the final exam and/or other requirements including: comprehensive paper, portfolio, presentation, project, or assessment in the course. Credit will not be granted, however, for a course in a subject area lower in course sequence than one for which the student has already earned credit.

Successfully attained credit under this policy will earn a grade of "pass", and it will appear as a "G" on their transcript. It shall not be used in computations of grade point average nor counted toward the total required credits for graduation. Credit may be used to fulfill prerequisites for other courses and/or subject area credit requirements for graduation and allow the student to take the next course in sequence. The attained credit may also be used to recover the credit as a result of failing a course. Further information on testing out guidelines and schedules is available on the BHS website, www.brightonk12.com

Personal Curriculum

A Personal Curriculum is an option any student or family can explore as a way to modify certain graduation requirements and earn a diploma. These guidelines are set by the Michigan Department of Education. Information can be found at http://www.michigan.gov/mde/0,4615,7-140-6530_30334_49879---,00.html

Dual Enrollment

High school students may enroll in a public or private post-secondary degree granting institution if the following conditions are met:

- 1 A student must be enrolled in both the district and the post-secondary institution during the local school district's regular academic year
- 2 The college courses cannot be hobby or "activity courses "

The State School Aid Act contains a provision that directs school districts to assist students in paying tuition and fees to the institution.

Eligible students should see their counselor for more specific information and application procedures. Grades for these classes will not be weighted.

Special Programs

Contact the High School Counseling Office for more information about the referral process concerning the initiation of Special Education, 504, and Homebound services.

On Line Courses

Students may take up to, but no more than, two online courses per semester. Any student wishing to take more than two online courses needs administrative approval. A list of possible online courses is available at Michigan Virtual or the statewide catalog. Contact your counselor or administrator for information on how to enroll in these courses. Grades for any on-line course will not be weighted. If a student fails an online course, (s)he may not elect to take another online course.

Out of District CTE Consortium

To supplement applied technology offerings at Brighton High School, we participate with other Livingston County high schools in a CTE Consortium. Registration for and participation in any CTE consortium class is open to all high school students in eleventh or twelfth grade. Students must provide their own transportation. For more information, please see page 43.

Retaking a Class

If a student chooses to retake a class, (s)he has this opportunity. This may be due to failure, or it may be to better understand the material. The initial and the retake grades will both be posted and remain on the transcript. Both grades will be calculated into the GPA. Students failing a class may be given an online learning lab hour to retake the class through Michigan Virtual.

Career Pathways

High school provides the opportunity to plan and prepare for the future. Career planning is one part of that process. Each year students have the chance to participate in career preparation activities, Career Pathway assessments, and to update their Educational Development Plan (EDP). An EDP is a written description that identifies student career goals, interests, and skills while documenting the experiences, education and accomplishments they have had and want to pursue.

Because many careers share similar characteristics, the State of Michigan has grouped all career options into one of six Career Pathways. Those six career pathways are:

Arts and Communications – careers related to the humanities, the performing, visual, literary and media arts

Business, Management, Marketing and Technology – careers related to all aspects of business including accounting, business administration, finance, information processing and marketing

Engineering/Manufacturing and Industrial Technology – careers related to technologies necessary to design, develop, install, or maintain physical systems

Health Sciences – careers related to the promotion of health, as well as the treatment of injuries, conditions, and disease

Human Services – careers in child care, civil service, education, hospitality, and the social services

Natural Resources and Agriscience – careers related to the environment and natural resources

Each department has included a Career Pathway chart in this curriculum guide. The Career Pathway chart suggests department course offerings that would be helpful for students anticipating a particular pathway direction.

NCAA Eligibility

The NCAA Initial-Eligibility Clearinghouse has approved the following core academic courses for use in establishing the certification status of student athletes from Brighton High School. Students expecting to receive NCAA athletic eligibility for college should refer to the NCAA web site: www.ncaa.org

*** Students electing online classes must check with the online provider regarding NCAA approved courses**

English

American Literature and Composition
Creative Writing
Composition of Argumentation
Honors American Literature and Composition
Honors Literature and Composition 9
AP Language and Composition
Literature and Composition 9
AP Literature and Composition
Mythology and Science Fiction
Speech
World Literature and Composition
Literature and Composition 11
Honors Literature and Composition 11
Practical Academic Writing and Speaking (PAWS)
Art & Composition of Arguments
Applied Journalism & Modern Media
Communication Design for Professional Settings
Technical Communications

Mathematics

Algebra 1
Algebra 2
AP Calculus AB
AP Calculus BC
Functions, Statistics and Trigonometry
Geometry
Pre-Calculus
AP Pre-Calculus
AP Statistics
Two Year Algebra 2 (Year 1) 1/2 Credit
Two Year Algebra 2 (Year 2) 1/2 Credit

Natural/Physical Science

Anatomy and Physiology (Lab)
Astronomy
Biology/AP
Biology
Botany
Chemistry/AP
Chemistry
Honors Chemistry
Forensics
General Chemistry
Physics/AP
Physics
AP Physics I
AP Physics 2
AP Environmental Science

Social Science

American History/AP
Civics
Current Events
Economics
European History/AP
AP Government
Government Close-Up (Govt C-U)
Military History
Psychology
AP Psychology
History of Social Behavior/Sociology
United States History and Geography
World History and Geography
Postwar America - The American Dream
Postwar America - Troubled Times
AP World History
AP Microeconomics
AP Macroeconomics
AP Comparative Government & Politics

Additional Courses

American Sign Language I
American Sign Language II
American Sign Language III
American Sign Language IV
French I
French II
French III
French IV
French V
Spanish I
Spanish II
Spanish III
Spanish IV
Spanish V

Determining eligibility of a student to play college athletics is the responsibility of the student and parent.

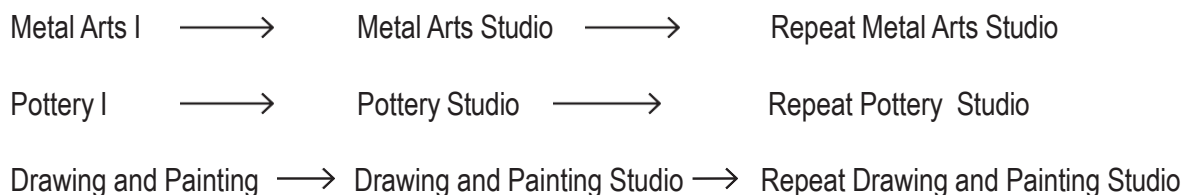
Art Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
68015/68016	Metal Arts 1	Semester	9 – 12	None	Arts/Communication; Engineering/Technology
68245/68246	Metal Arts Studio	Semester	9 – 12	Metal Arts 1	Arts/Communication; Engineering/Technology
68025/68026	Pottery I	Semester	9 – 12	None	Arts/Communication; Engineering/Technology
68255/68256	Pottery Studio	Semester	9 – 12	Pottery I	Arts/Communication; Engineering/Technology
68005/68006	Art Works	Semester	9 – 12	None	Arts/Communication; Engineering/Technology
68035/68036	Drawing and Painting I	Semester	9 – 12	None	Arts/Communication; Engineering/Technology
68265/68266	Drawing and Painting Studio	Semester	9 – 12	Drawing and Painting I	Arts/Communication; Engineering/Technology
05154	Artist Workshop	Semester	9 – 12	Previous Art Credit	Arts/Communication; Engineering/Technology
05199	Multi-Media Art	Semester	9 – 12	Previous Art Credit	Arts/Communication; Engineering/Technology

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Flow Chart

Art Works



* Credit in these courses apply to the Visual, Applied or Performing Arts graduation requirement

Art Department continued

Course Descriptions

The art courses are thoroughly described below; however, there are common elements true in each class. Students should understand that all the teachers in our department are interested in having students become knowledgeable of the history of art and the elements and principles of design as it pertains to their courses. All believe that reading and writing across the curriculum should be expected. There will be quizzes and exams based on the material taught within each curriculum.

Artist Workshop

Grades 9– 12 • Semester course • Semester 2 – 05154 • 1/2 Credit

This course is designed for those interested in pursuing a career in the arts or the amateur artists who wish to further their artistic license. We will explore detailed and intense topics in art, using refined techniques and projects designed to hone one's artistic abilities.

Multi-Media Art

Grades 9– 12 • Semester course • Semester 1 – 05199 • 1/2 Credit

This course is an exploration of varying art mediums and techniques. You will be introduced to basic drawing, painting, and design principles that are necessary for growth and exploration as an artist. Effort is stressed over talent. Some three-dimensional projects may be introduced.

Metal Arts I

Grades 9– 12 • Semester course • Semester 1 – 68015; Semester 2 – 68016 • 1/2 Credit

This course concentrates on designing and fabrication skills basic to creating art made with metal. Among the technical skills taught are piercing, sawing, riveting, forging and all finishing skills applicable to these techniques. In this class we will be working on small scale metal pieces as jewelry and/or small sculptures as projects. Success will reflect good use of the elements and principles of design as well as good craftsmanship.

Metal Arts Studio

Grades 9 – 12 • Semester Course • Semester 1 – 68245; Semester 2 – 68246 • 1/2 Credit

Prerequisite: Demonstrates proficiency of skills from Metal Arts I with C- average or better.

This course further explores the fabrication and design skills begun in Metal Arts I adding the technical skills of soldering, simple stone setting, wire construction, surface embellishment, and adding mixed media. Success will reflect good use of the elements and principles of design as well as good craftsmanship. In this class we will be working on small scale metal pieces as jewelry and/or, small sculptures as projects. This course may be repeated to continue exploring the medium at a more advanced level.

*A lab fee of approximately \$35.00 may be incurred for consumable materials. Fee exemptions may be made on an "as needed" basis.

Pottery I

Grades 9 – 12 • Semester Course • Semester 1 – 68025; Semester 2 – 68026 • 1/2 Credit

This course offers a structured experience in basic design and pottery techniques including the hand-building techniques of pinch pot, slab-building and coil, and an exposure to using the pottery wheel. Art history is used to introduce many of the projects. Success will reflect as personal expression and creativity in the work, good use of the elements and principles of design and an effort to use good craftsmanship.

Pottery Studio

Grades 9 – 12 • Semester Course • Semester 1 – 68255; Semester 2 – 68256 • 1/2 Credit

Prerequisite: Demonstrates proficiency of skills from Pottery I with C- average or better.

This course continues to build on the techniques and skills learned in Pottery I. Combining the techniques, personal expression and relating the work to art history are all important components. Students work more often on the pottery wheel to develop that skill and many of the projects will have wheel based requirements. Success will reflect good use of the elements and principles of design and good craftsmanship. This course may be repeated to continue exploring the medium at a more advanced level.

*A lab fee of approximately \$35.00 may be incurred for consumable materials. Fee exemptions may be made on an "as needed" basis.

Drawing and Painting I

Grades 9 – 12 • Semester Course • Semester 1 – 68035; Semester 2 – 68036 • 1/2 Credit

This structured course will introduce students to the skills required in these art forms including composition and design principles, perspective, symmetry, proportion, and a variety of basic drawing and gray scale painting techniques. As time permits, color will be explored. Art history applicable to the material will be an important component.

Drawing and Painting Studio

Grades 9 – 12 • Semester Course • Semester 1 – 68265; Semester 2 – 68266 • ½ Credit

Prerequisite: Demonstrates proficiency of skills from Drawing and Painting I with C-average or better.

This course is a continuation of Drawing and Painting I with an emphasis on acrylic or watercolor painting, using drawing pencils, colored pencils, pastel and mixed media, with continued emphasis on art history, composition and design principles. This course may be repeated to continue exploring the medium at a more advanced level.

*A lab fee of approximately \$35.00 may be incurred for consumable materials. Fee exemptions may be made on an "as needed" basis.

Art Works

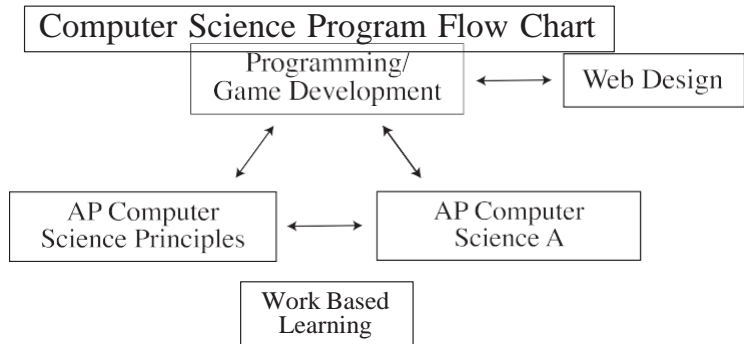
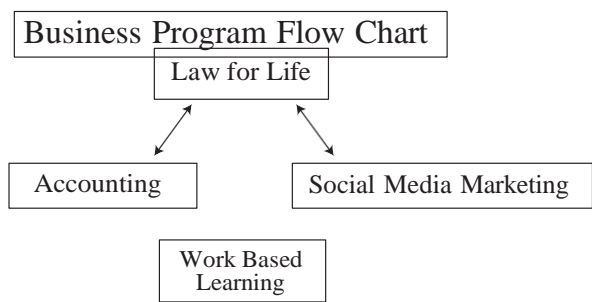
Grades 9 - 12 *Semester Course * Semester 1-68005; Semester 2-68006 * 1/2 Credit

This course is for those interested in art but not committed to one concentration. Media to be explored may include print-making, sculpture, drawing and painting, collage and two or three-dimensional design. The elements and principles of design will be applied and emphasized in the work.

Business Department

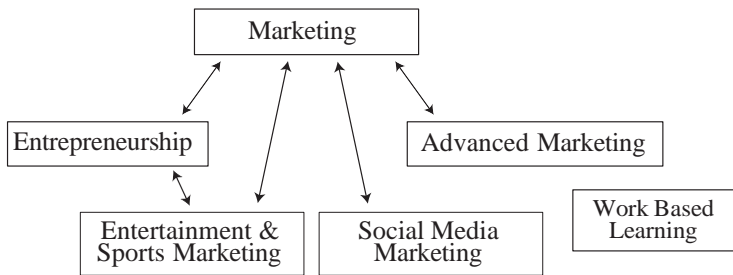
Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
66261/66262	Accounting	Year	11– 12	None	Business Technology; Health Services
66235/66236	Advanced Marketing	2 hour block Year	11 – 12	Successful completion of Marketing, application, and teacher approval	Arts/Communication; Business Technology
66477/66478	AP Computer Science A	Year	11 - 12	None	Business Technology
66481/66482	AP Computer Science Principles	Year	11 - 12	None	Business Technology
66131/66132	Entertainment and Sports Marketing	Semester	9 – 12	None	Arts/Communication Business Technology
66033/66034	Entrepreneurship	Semester	10 – 12	None	Arts/Communication Business Technology
66077/66078	Intro to Digital Technology (offered even numbered school years)	Semester	9 – 12	None	Arts/Communication; Business Technology; Human Services
66225/66226	Law for Life	Semester	10 – 12	None	Business Technology; Human Services; Natural Resources
66031/66032	Marketing	Year	10 – 12	None	Arts/Communication; Business Technology
66075/66076	Programming-Game Development	Semester	9 – 12	None	Arts/Communication; Business Technology; Human Services
66057/66058	Social Media Marketing	Semester	10 - 12	None	Arts/Communication; Business Technology; Human Services
66073/66074	Web Design	Semester	9 – 12	None	Arts/Communication; Business Technology; Human Services
67947/67948	Work Based Learning CO- OP	Semester	11 - 12	None	Arts/Communication; Business Technology; Human Services

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.



Business Department continued

Marketing Program Flow Chart



Course Descriptions

Accounting

Grades 11 – 12 • Year Course • Semester 1 - 66261 • Semester 2 - 66262 • 1Credit

Satisfies 4th Year Math Credit (1 Credit), 2nd year World Language Credit, DECA, and potential for College Credit.

Are you planning on studying business in college? Did you know you will take at least one accounting course? Currently the field of accounting is one of the fastest growing career areas and is experiencing a shortage of accountants. Any student who has an interest in pursuing a career in any business field should take this course. This course will introduce students to the basic accounting principles and procedures that are applied to accounting records kept for businesses. This will include journalizing transactions, posting, petty cash, financial statements, and adjusting and closing entries. Automated accounting software may be utilized.

Advanced Marketing

Grades 11 - 12 • Year course (two hour block) – 66235/66236 • 2 Credits

Satisfies the Visual, Performing, and Applied Arts (VPAA) Credit, and 4th Year Math Credit (1 Credit), 2nd year World Language Credit, DECA and potential for College Credit.

Prerequisite: Successful completion of Marketing, application and teacher approval.

Are you interested in working within the business world one day? Do you want hands-on business experience? This two-hour block, one-year course is designed to provide training in managing the operations of a retail store under real conditions at The Paw! (school store). Course topics include: business communications, retailing, budgeting, purchasing, pricing, and sales analysis; visual and display design, marketing research, advertising and management.

Advanced Placement Computer Science A

Grades 11 – 12 • Year Course. Semester 1 - 66477 • Semester 2 - 66478 • 1 Credit

Satisfies 4th Year Math Credit (1), 2nd year World Language Credit, and potential College Credit

AP Computer Science A is for a student most likely going into the STEAM career path of technology/engineering/computer science. This course is equivalent to a first-semester college-level comp sci class. The course emphasizes object-oriented programming methodology, especially problem solving and algorithm development, plus an overview of data structures and abstraction. This course requires that solutions of problems be written in the Java programming language. AP CSA is mostly about the programming language Java and how to use it to develop code and solve problems. The test is based on your ability to write in and understand Java as well as some of the underlying programming concepts and mathematical concepts. If you want to major in CS or Engineering or are interested in learning to program, take this course. Many students appreciate having already taken the APCSP course. The AP exam tests students on their knowledge of Java with MCQ and hand-written FRQ.

Advanced Placement Computer Science Principals

Grades 11 – 12 • Year Course • Semester 1 - 66481 • Semester 2 - 66482 • 1 Credit

Satisfies 4th Year Math Credit (1), 2nd year World Language Credit, and potential College Credit

AP Computer Science Principals is for a student interested in any career path. Studying computer science doesn't necessarily mean you'll be a programmer. It can lead to hundreds of career choices, from business to animation or medicine to music. This course introduces students to the foundational concepts of computer science and explores the impacts of technology and problem solving on our society, implementations and future use. APCSP is meant for people with limited or no experience with developing code. Topics include all aspects of computer science such as the internet, data encoding, cybersecurity, ethical computing and privacy and computer networking along with programming. The AP exam tests students with MCQ and a large project during the course to create an app.

Entertainment and Sports Marketing

Grades 9 – 12 • Semester Course • Semester 1 – 66131; Semester 2 – 66132 • 1/2 Credit DECA, 2nd year World Language Credit (1/2 credit), potential for college credit

Interested in the dynamic areas of sports, entertainment, and/or marketing? Marketing is an exciting industry and many jobs in the country deal with some aspect of marketing! In this course you will explore the intriguing world of sports and entertainment from the perspective of marketing. Topics will include, but are not limited to, college & amateur sports, professional sports, marketing entertainment, marketing plans, and promotional planning. The activities in this course will help students develop critical thinking, decision making, and communication skills. Speakers, current events, videos, individual and group projects, field trips, and simulations will be utilized.

This course is recommended for any student who is considering a career in Business, Marketing, Sports & Entertainment, or Public Relations.

Next Suggested course: Marketing

Entrepreneurship

Grades 10 – 12 • Semester Course • Semester 1 – 66033; Semester 2 – 66034 • 1/2 Credit

Satisfies the 4th Year Math Credit (1/2 Credit), 2nd year World Language Credit (1/2 credit), DECA and potential for College Credit.

Do you want to be a successful business owner? This one semester class is for anyone interested in understanding how to start and operate a business. Students will develop a business plan for the twenty-first century and will learn the many opportunities available to them in business ownership. This class will include topics in types of business ownership, market and opportunity analysis, business planning, price and promotional strategies, and financial analysis. It will also include visits by current successful entrepreneurs. This class satisfies the fourth year math credit (1/2 credit) and the computer credit.

Next Suggested course: Marketing

Business Department Continued.....

Intro to Digital Technology (offered even numbered school years)

Grades 9 – 12 • Semester Course Semester 1 - 66077; Semester 2 - 66078 • 1/2 Credit

This course offers students a foundational understanding of digital systems, focusing on the principles and skills needed to navigate an evolving technological landscape. Students will explore core concepts such as computing, problem-solving, and the ethical use of technology in personal, academic, and professional settings. Hands-on activities and collaborative projects will build technical proficiency in digital tools while emphasizing adaptability to future advancements. Critical thinking and creativity will be fostered as students develop digital literacy across various platforms. By the end of the course, students will be prepared to apply their skills to emerging technologies and adapt to new innovations in the digital world.

Law for Life

Grades 10 – 12 • Semester Course * Semester 1 - 66225; Semester 2 - 66226 • ½ Credit

Students will have an opportunity to gain a real appreciation for law and learn about his/her rights and responsibilities as a minor and as an adult when dealing with constitutional rights, criminal procedure, juvenile court, civil and criminal law, as well as business law and how it affects consumers and corporations. Students will also learn about laws as they pertain to marriage and divorce issues, estate planning, rental issues, and housing. Any student interested in a career in any aspect of law is encouraged to take this course.

Marketing

Grades 10 – 12 • Year course – 66031/66032 • 1 Credit

Satisfies the Visual, Performing, and Applied Arts (VPAA) Credit, DECA, 2nd year World Language Credit, and potential for College Credit.

Marketing is everywhere! Through this Marketing course students will discover how Marketing relates to everyday life and learn techniques to enable them to be smarter consumers. This one-year course is a study of how a product or service is introduced, developed, priced, advertised, and sold in the marketplace. Through various activities and projects students will learn about the fundamentals of business communication, market analysis, product decisions from innovation to production, pricing, and packaging, promotion decisions from advertising to personal selling, placement decisions from channel of distribution to merchandising and visual displays, salesmanship and technology. Students will also have an opportunity to participate in field trips that relate concepts learned in class to the real world. If you plan on studying business in college or working in the business world one day this is a class for you!

Please note: This class is required if student wishes to take Advanced Marketing **DECA Highly Recommended

Programming-Game Development

Grades 9 – 12 • Semester Course • Semester 1 – 66075; Semester 2 – 66076 • 1/2 Credit Satisfies 4th year Math Credit (1/2 credit), 2nd year World Language Credit (1/2 credit)

This CS class gives students an introduction to multiple programming languages. Everything is cloud based and free to download/use. Learn how to think like a computer by understanding what technology is and how to apply it to game development. This introductory class helps students to understand concepts of computer science by creating games using block coding and developing programs using the Python language. Students will use devices such as circuits to make a board game, robots to sense and move through obstacles and other input devices to build and code.

Next Suggested course: AP Computer Science Principles

Social Media Marketing

Grades 10 - 12 * Semester Course * Semester 1 - 66057; Semester 2 - 66058 * 1/2 Credit

Satisfies the Visual, Performing, and Applied Arts (VPAA) Credit, 2nd year World Language Credit (1/2 credit), and potential for college credit

Become a social media strategist - one of the hottest career trends in technology and marketing. This class will use many social media tools to promote and explore the purpose of social media as a marketing tool. Students will create and implement a social media campaign for a local business to help their business grow and succeed. This class is comparable to an internship. Not only will students have the opportunity to apply what they learn in class this also gives them the opportunity to work professionally with a business. Field trips are involved in this course to experience businesses using social media. Next Suggested course: AP Computer Science Principles, Marketing

Web Design

Grades 9 – 12 • Semester Course • Semester 1 – 66073; Semester 2 – 66074 • 1/2 Credit

Satisfies the Visual, Performing, and Applied Arts (VPAA) Credit, 2nd year World Language Credit (1/2 credit)

If you are interested in improving a businesses online presence or creating a website for a self project/hobby, this class will provide you with the skills to create and maintain websites and how to integrate graphics, sound, animation and user interaction. Students will use HTML, Javascript, CSS, and other software to create effective and functional websites. Students will use Adobe Creative Suite software, Illustrator and Photoshop to develop digital art. Students will learn how to properly use design elements and principles to enhance the layout of their websites. Students will create a personal portfolio website to showcase their skills for future use. This class provides the opportunities that will help anyone improve their technology skills.

Work Based Learning CO-OP

Grades 11-12 * Semester Course * 1/2 Credit

Semester 1 - 67947; Semester 2 - 67948

Work Based Learning is a school-to-work program that involves the schools, students, parents/ guardians, and the business community. It matches a student's class work and career interests with work-site based learning opportunities (such as internships/jobs). The Work Based Learning Program is not a job placement service; it is a program which enables students to receive career exploration/ training in an established, supervised work environment. This allows the student to experience actual employment conditions, while also continuing their academic studies.

Career Readiness WBL student experiences (internship/jobs):

- 1 May be paid or unpaid with same experience the entire semester
- 2 Must follow federal and state regulations to employ minors
- 3 Required 5-10 hours per week for the semester

Career Readiness WBL student eligibility requirements:

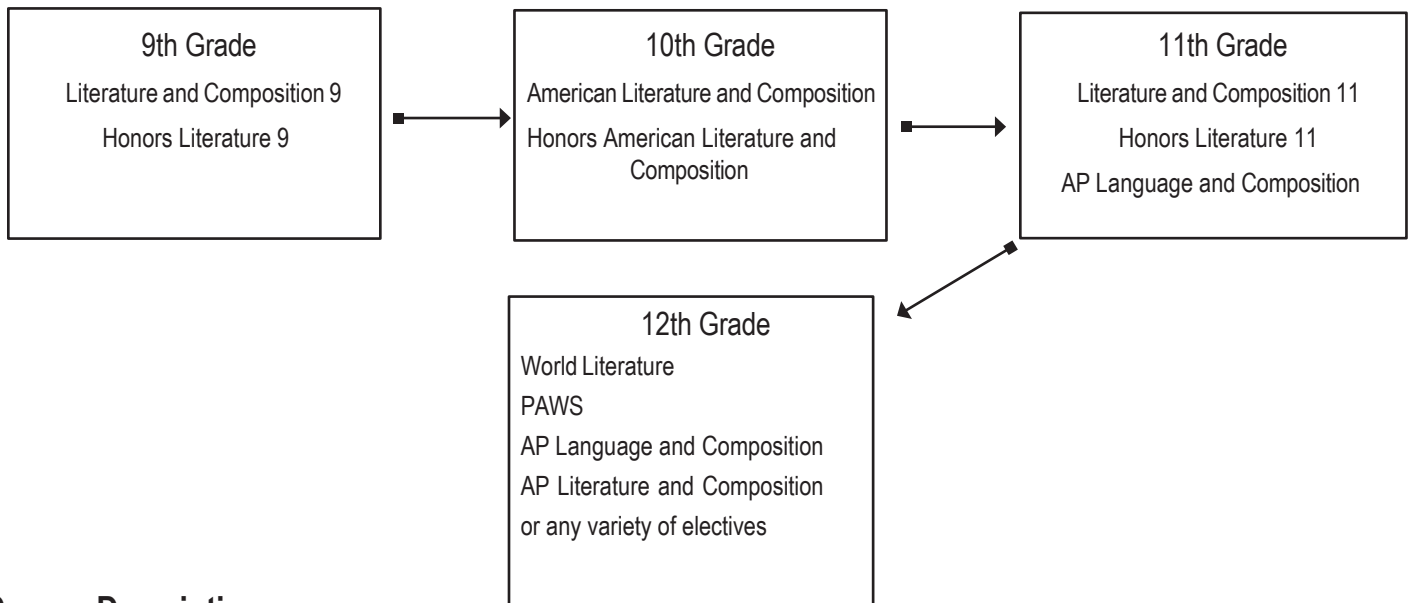
- 1 Application must be completed prior to the start of class
- 2 Training site must be approved by the Work Based Learning Coordinator
- 3 Work based learning opportunity must be related to a student's career path

English Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
61050	Literature and Composition 9	Year	9	None	All
61100	Honors Literature and Composition 9	Year	9	Summer reading	All
61470	American Literature and Composition	Year	10	None	All
61480	Honors American Literature and Composition	Year	10	Summer reading	All
61670	Literature and Composition 11	Year	11	None	All
61680	Honors Literature Composition 11	Year	11	Summer reading	All
61691/61692	World Literature: A Cultural Experience	Semester	12	Completion of all required English Classes (9th, 10th and 11th grade years)	Art/Communication, Human Services
61700	AP Literature and Composition	Year	12	Summer reading	All
61800	AP Language and Composition	Year	11 - 12	Summer reading	All
61277/61278	Drama	Semester	9 – 12	None	Art/Communication; Human Services
61077/61078	Performing Arts	Semester	9 - 12	None	Art/Communication; Human Services
61073/61074	Performing Arts Student Director	Semester	11 - 12	Successful completion of Drama and Performing Arts and teacher recommendation	Art/Communication; Human Services
61265/61266	Mythology and Science Fiction	Semester	10 – 12	None	Art/Communication
61275/61276	Speech	Semester	9 – 12	None	All
61085/61086	Art and Composition of Arguments	Semester	10 – 12	None	All
61271/61272	Applied Journalism and Modern Media	Semester	10 – 12	None	Art/Communication
61290	Yearbook	Year	10 – 12	Application Form and Teacher Permission	Art/Communication
61455/61456	Practical Academic Writing and Speaking (PAWS)	Semester	12	None	All
61457/61458	Creative Writing	Semester	10 – 12	None	Art/Communication
61465/61466	Humanities (Music)	Semester	9 – 12	None	Art/Communication
61370	Video Production (Media 1 & 2)	Year	11 -12	Application and Staff Approva	Art/Communication
61477/61478	Communication Design for Professional Settings	Semester	11 - 12	None	All
61287/61288	Technical Communication	Semester	9 - 12	None	All

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

English Flow Chart



Course Descriptions

Literature and Composition 9

Grade 9 • Year Course – 61050 • 1 Credit

This one-year course required for graduation will emphasize improvement in reading and writing skills. Thought organization, essay writing, writing mechanics, grammar, as well as exposure to a variety of written literature will be included in this course. The course will also cover listening, speaking, and research skills.

Honors Literature and Composition 9

Grade 9 • Year Course – 61100 • 1 Credit

Prerequisite: Summer reading

This one-year course fulfills the graduation requirement for ninth grade and will cover the curriculum of Literature and Composition plus additional novels and essays. The composition of this course is very challenging in nature and is intended for students who have a passion for literature and/or for students who wish to pursue Advanced Placement English in their twelfth grade year. The assigned summer reading novels must be read prior to the start of school. These will be assessed within the first few weeks of school, and those grades will be applied during the school year.

American Literature and Composition

Grade 10 • Year Course – 61470 • 1 Credit

This one-year course is required for graduation. Emphasis in this class is placed upon improving reading, writing, speaking and research skills. Writing skills covered include a literary analysis, imaginative, and reflective writing. The literature of this course explores the disposition of Critical Response and Stance. In addition to the required readings, connecting pieces of poetry, short stories, drama, and non-fiction will be explored.

Honors American Literature and Composition

Grade 10 • Year Course – 61480 • 1 Credit

Prerequisite: Summer reading

This one-year course fulfills the graduation requirement for tenth grade and will cover the same curriculum as American Literature and Composition plus additional novels and essays. The composition of this course is very challenging in nature and is intended for students passionate about literature and/or students who wish to enroll in Advanced Placement English senior year. The assigned summer reading novels must be read prior to the start of school. These will be assessed within the first few weeks of school, and those grades will be applied during the school year.

Literature and Composition 11

Grade 11 • Year Course – 61670 • 1 Credit

This one-year course is required for graduation and is designed to meet the Common Core standards in reading, writing, speaking, listening and research. Students will engage in close-reading of literature and non-fiction and will write for a variety of purposes. Emphasis will be placed on rhetorical analysis, literary analysis, and research/expository writing as SAT and college preparation.

English Department continued...

Honors Literature and Composition 11

Grade 11 • Year Course – 61680 • 1 Credit

Prerequisite: Summer reading

This one-year course will satisfy the eleventh-grade English requirement for graduation. This course will cover all elements of Literature and Composition 11 plus additional novels and essays. The composition of this course is very challenging in nature and is intended for students who have a passion for literature and/or for students who wish to enroll in an Advanced Placement English course in twelfth grade. The assigned summer reading novels must be read prior to the start of school. These will be assessed within the first few weeks of school, and those grades will be applied during the school year.

World Literature: A Cultural Experience

Grade 12 • Semester Course • Semester 1 – 61691; Semester 2 - 61692 • 1/2 Credit

Prerequisites: Completion of all required English classes (9th, 10th, 11th grade years)

World Literature will allow students to experience cultures from around the world through literature. Modern novels will be the catapult for getting students to analyze literature and cultural connections within their own society. There will be rich classroom discussions on narrative-based reading. This one-semester course will count toward the English requirement for graduation and is recommended for the college-bound senior.

Advanced Placement Literature and Composition

Grade 12 • Year Course – 61700 • 1 Credit

Prerequisite: Summer reading

This course follows the guidelines of the College Examination Board and is designed to prepare students for the AP English Literature and Composition test given in May (taking this AP test is NOT a requirement for the course). This course is for the exceptional English student who is willing to direct time and energy toward serious study of drama, poetry, prose and fiction. Background in writing mechanics must be sound. Students are encouraged, but not required, to supply their own texts.

Advanced Placement Language and Composition

Grade 11 - 12 - Year Course • 61800 • 1 Credit

Prerequisite: Summer reading

This course follows the guidelines of the College Examination Board and is designed to prepare students for the AP English Language and Composition test given in May (taking this AP test is NOT a requirement for the course). This course is for the exceptional English student who is willing to direct time and energy toward serious study of non-fiction texts, including synthesis and research. Students will develop skills in expository, analytical and argumentative writing. Background in writing mechanics must be sound. Students are encouraged, but not required, to supply their own texts.

Applied Journalism and Modern Media

Grades 10 – 12 • Semester Course • Semester 1 - 61271; Semester 2 - 61272 • 1/2 Credit

This is a hands-on class designed to produce the Brighton High School newspaper. Students will learn to ask questions, conduct interviews, and write for journalism publications. Students study the functions of journalism, the changing landscape of journalism, and legal and ethical issues faced by contemporary journalists. A strong background in English is highly recommended, as are a good work ethic, verbal communication skills, and the ability to work with others towards a common goal. Students interested in studying business, communications, and journalism will benefit from this class.

Speech

Grades 9 – 12 • Semester Course • Semester 1 – 61275; Semester 2 – 61276 • 1/2 Credit

Through the use of practical experiences, students will acquire the essential speaking and listening skills so critical in the modern day workplace. Students will work to relieve the anxiety and stress which the average person encounters in public speaking. As a collaborative environment we will learn organizational skills and gain awareness of the relationship between the speaker and the audience. Assignments may include informal speeches, group discussion, oral readings and persuasive speeches.

Art and Composition of Arguments

Grades 10 – 12 • Semester Course • Semester 1 – 61085; Semester 2 – 61086 • ½ Credit

This course is a study of oral communication skills. The class will stress critical thinking, research, organized writing and public address speaking skills. Speech class is recommended prior to taking this class, but not required.

12th Grade Writing: Practical Academic Writing and Speaking (PAWS)

Grade 12 • Semester Course • Semester 1 – 61455; Semester 2 – 61456 • 1/2 Credit

PAWS is intended to help you prepare for writing in college and/or life. As a result, you will be expected to write the same type of papers that are expected by professors as well as practical writing you will find valuable in your adult life. We will review the writing process and cover multiple techniques for researching, writing, and revising. The class will be based on a workshop method, meaning that you will be working on your own and meeting occasionally with your classmates and teacher to receive feedback on your writing.

Creative Writing

Grades 10 – 12 • Semester Course • Semester 1 – 61457; Semester 2 – 61458 • ½ Credit

This course focuses on writing, reading, and presentation in various formats including: vignette, short story, the novel, poetry, stage-play, and screenplay. Multiple outside reading materials will be used to comprehend style, structure and meaning of the differing genres. Students must demonstrate command of standard English in order to apply poetic license required in creative writing. Through planning, peer-editing and revision students will create a final draft of each format to contribute to a culminating portfolio.

Humanities: Music

Grades 9 – 12 • Semester Course • Semester 1 – 61465; Semester 2 - 61466 • ½ Credit

Music Humanities is a course that follows the thread of American music from the 1800's to the present. Students begin by studying slave spirituals then move to the blues, jazz, rock and roll, Motown, Elvis Presley, The British Invasion, and The Beatles. Learning about these genres and artists involves reading articles, writing responses to formal and informal prompts, giving presentations, and listening to music. The goal of the class is to understand the relationship between music and society and to expose students to different types of music. The highlight of the class is a field trip to the Motown Museum in Detroit.

English Department continued...

Mythology and Science Fiction

Grades 10 – 12 • Semester Course • Semester 1 – 61265; Semester 2 – 61266 • 1/2 Credit

The emphasis in this course will be to examine classical mythology with emphasis on Greek Myths. Students will also study the elements of modern science fiction by reading the works of selected authors, writing, and completing tasks and projects that encourage understanding of each element. This course will focus on the improvement of reading, writing, and listening skills. **Due to the mature content of this class, it is recommended for 11th or 12th grade students.**

Drama

Grades 9 – 12 • Semester Course • Semester 1 – 61277; Semester 2 – 61278 • ½ Credit

This one-semester course will focus on the fundamentals of Drama: stage directions, vocal exercises, play direction, play performance, backstage practice, cues, timing, memorization, teamwork, costuming, and lighting. During the semester-long class, students will routinely perform improvisations, vocal exercises, group exercises, individual performances, learning stage directions, cues, and etiquette. Each quarter will have a performance-based project. Those students in the school play or musical will have a chance to practice their craft and lines during the hour. This class may be used towards a 4th year English credit OR towards the Visual/ Performing Arts credit.

Performing Arts

Grades 9 - 12 • Semester Course • Semester 1 - 61077; Semester 2 - 61078 • 1/2 Credit

This is the follow-up class to Drama, which takes all the same elements of the class and builds upon them. There will be a focus on characterization, memorizing, improvisation, individual and group presentations, as well as daily participation. Each quarter will have a performance-based project. The element of film may also be incorporated into our projects. Those students in the high school play or musical will have a chance to practice their craft and lines during the hour. Drama class is encouraged, but not required, to take this course. Please note: This class may be used towards a 4th year English credit OR towards the Visual/Performing Arts credit.

Yearbook

Grades 10 – 12 • Year Course – Semester 1 - 61291; Semester 2 - 61292 • 1 Credit

Prerequisite: Application and teacher permission (Journalism experience encouraged).

Special permission from instructor may be granted if space is available.

This is a hands-on production course. Students will be responsible for all aspects of producing the Brighton High School yearbook including design, content creation, sponsor solicitation, and photography. Yearbook class accurately simulates a work environment – because it is one. Students will work collaboratively and individually to meet publisher-established deadlines as they practice journalism skills such as questioning, interviewing, writing, and photographing people in and around BHS. Students interested in studying business, communications, photography, and journalism will benefit from this class. This class is co-curricular, which means that time outside of class is expected. A strong background in English is highly recommended, as are a good work ethic, verbal communication skills, and the ability to work with others towards a common goal. This class may be used towards a 4th-year English credit only when taken as a senior or towards the Visual, Performing, and Applied Arts credit.

Video Production (Media 1 & 2)

Grades 11 - 12 • Year Long Course • 61370 • 1 credit

Prerequisite: Must complete an application and receive approval of staff.

This class is designed to study the technique, vocabulary, and disciplines related to video in the communication fields. This hands-on course explores camera operation, script writing, lighting, audio production, video editing and the effects of video on viewers. Students will use all the basic skills necessary to produce daily announcements, special video features, public service announcements, short films, and commercials. Students are expected to spend some time outside of the classroom to videotape projects, work in the studio/lab, and complete group work.

Course credit applies to Visual, Applied or Performing Arts graduation requirements or as an elective credit. This class will NOT count as a credit toward the English graduation requirement.

This class may be used towards a 4th year English credit only when taken as a senior or towards the Visual, Performing, and Applied Arts credit.

Communication Design for Professional Settings

Grades 11 – 12 • Semester Course • Semester 1 – 61477; Semester 2 – 61478 • 1/2 Credit

Learners with a passion for storytelling and a strong instinct to think outside the box and experiment with new ideas will address campus and community needs in this project-based course. Learners will develop content, write key publications, and tell stories of organizations through writing and design. They will prepare for a rapidly-evolving workplace environment that requires collaboration, creativity, and innovation. The course will provide real-world experience using digital tools to prepare content, documents, and reports for professional settings, including BAS and/or the community. Students will leave with skills such as with skills such as the ability to produce clear and succinct explanations of concepts and/or situations, write evidence-backed informative and persuasive materials, and convey the same information to different audiences in different mediums (i.e., email, social media messaging, reports, flyers, presentations, etc.).

Technical Communication

Grades 9 – 12 • Semester Course • Semester 1 – 61287; Semester 2 – 61288 • 1/2 Credit

Engaging and collaborative real-world writing course. Students will learn how to write for practical purposes and design materials that anyone can use! In this project-based course, students will practice verbal and written communication skills needed to be successful in everyday life. Students will build on their prior writing skills and learn how to design communication for practical and specific purposes. Students will demonstrate an understanding of the context in which communication occurs, how to identify and address the needs of an audience, and the methods and strategies for organizing and presenting technical information.

Family and Consumer Sciences Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
69265/69266	Health Education	Semester	9	None	Health or Human Services
69665/69666	Personal Finance	Semester	11 - 12	None	Business Technology; Human Services
69047/69048	Bake Shop	Semester	9 – 12	None	Business Technology; Health or Human Services
69055/69056	Culinary Arts	Semester	9 – 12	None	Business Technology; Health or Human Services
69035	Child Development – Infancy	First Semester	10 – 12	None	Art/Communication; Health or Human Services
69038	Child Development – Pre School	Second Semester	10 – 12	None	Art/Communication; Health or Human Services
69435/69436 (Year 1) 69433/69434 (Year 2)	Education Careers	Year	11 – 12	Must complete application	Art/Communication; Business Technology; Health or Human Services
69025/69026	Personal Power	Semester	9 – 12	None	Art/Communication; Business Technology; Health or Human Services
69411/69412	Housing and Interior Design	Semester	9 – 12	None	Art/Communication; Engineering Technology; Human Services; Natural Resources
69425/69426	Successful Relationships	Semester	9 – 12	None	Art/Communication; Business Technology; Health or Human Services
67920	Teacher Cadet	Year	11 - 12	Must complete application	Art/Communication; Business Technology, Human Services
60023/60024	LINK	Semester	11 - 12	Must complete application	Human Services
69413/69414	Fashion Design and Merchandising	Semester	9 - 12	None	Art/Communication; Business Technology, Human Services

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Course Descriptions

Health Education

Grade 9 • Semester Course • Semester 1 – 69265; Semester 2 – 69266 • ½ Credit Required Course

This course will help students develop the knowledge and skills they need to make healthy decisions that allow them to stay active, safe, and informed. Students will practice the following skills within each unit to maintain lifelong health: decision making, accessing information, analyzing influences, interpersonal communication, self-management, and advocacy. The areas of study include: personal health and wellness, disease prevention, mental/emotional/and social health, nutrition and physical activity, alcohol/tobacco/vaping/drugs, resisting pressure, CPR/first aid, relationships, and comprehensive sexual health (anatomy, reproduction, STI'S, HIV/AIDS, contraception)

Personal Finance

Grades 11 - 12 • Semester Course • Semester 1 – 69665; Semester 2 – 69666 • ½ Credit

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. This course will provide an understanding for making informed personal financial decisions leading to financial independence. Qualifies for senior math credit if taken senior year.

Bake Shop

Grade 9 – 12 • Semester Course • Semester 1 – 69047; Semester 2 – 69048 • ½ Credit

This course will provide students with the opportunity to work cooperatively while learning basic to advanced baking skills and techniques. The student will appreciate food preparation as both a science and an art while meeting high expectations of consistency and performance.

Course satisfies the VPAA credit

Family and Consumer Sciences continued...

Culinary Arts

Grades 9 – 12 • Semester Course • Semester 1 - 69055 * Semester 2 – 69056 • 1/2 Credit

The focus of this course is on essential food preparation skills and practical nutrition for everyday living. By taking this course you'll have the chance to develop essential life skills through a combination of classroom learning and hands-on experiences in the foods lab. Areas of instruction include foundational kitchen skills, nutrition and wellness, and the preparation of proteins, dairy, grains, vegetables, and fruits. Upon completion of this course, you'll be equipped with the knowledge, skills, and culinary-confidence to healthfully and deliciously fuel your body and mind.

Satisfies the VPAA Credit

Child Development – Infancy

Grades 10 – 12 • Semester Course • Semester 1 – 69035 • 1/2 Credit

This course will help students develop the knowledge and skills they need to make healthy decisions that allow them to stay safe, and informed when it comes to their bodies, pregnancy, childbirth, and parenting. This course will present a wide variety of information and experiences related to the world of parenting and infants. Information on the decision to become a parent will be presented which will include the realities of the physical, social, personal, financial, and career adjustments required for parenthood. The semester course will include topics of teen pregnancy, parenting styles, human reproduction, stages of pregnancy, the developing infant, labor and delivery, and the first year of life. The course examines personal readiness on becoming a parent and the issues important to raising healthy children with positive parent-child relationships.

Child Development – Preschool

Grades 10 – 12 • Semester Course • Semester 2 – 69038 • ½ Credit

Preschool Years will focus on children ages 3-5 and will teach students how to provide the care and guidance that can lead to a child's healthy development. The semester course will include topics of growth and development, learning activities, the safety of children, learning through play, Child Development Theorists, eating healthy to grow and thrive, and characteristics of the physical, social, emotional, and intellectual development of toddlers and preschoolers. Not only is this course excellent for any student who hopes to be a parent, but also a "must" for students who plan on careers working with children!

Education Careers

Grades 11 – 12 • Year Course (2 hours) – Year 1 - 69435/69436; Year 2 - 69433/69434 * 2 Credits - 2 hour block - 2 year course

Prerequisite: Must complete application and receive approval of program staff.

This course is designed to provide students with an opportunity to explore, and experience first-hand, teaching as a profession. Students will receive a variety of experiences working directly with young students from preschool through 8th grade around the Brighton community. Students in Education Careers will be involved in the development and application of content through classroom hands-on activities, planning and carrying out appropriate lessons to teach young students in a classroom setting. Articulated college credit may be available. Students must provide their own transportation.

Satisfies the VPAA Credit and/or 4th Year Math Credit

Personal Power

Grades 9 – 12 • Semester Course • Semester 1 – 69025; Semester 2 – 69026 * ½ Credit

The goal of this course is to provide students with the tools necessary to grow, and accept responsibility for their own success and happiness. Emphasis is placed on developing confidence, communication skills, and shaping one's destiny. Class participation is an important component of this course, and regular attendance is mandatory for the students to benefit from the valuable life lessons covered daily in the classroom.

Housing and Interior Design

Grades 9 – 12 • Semester Course • Semester 1 – 69411; Semester 2 – 69412 * ½ Credit

In this creative and interactive course, we will explore interior design and home decor concepts, emphasizing real world applications and career opportunities. We will focus on developing personal style through studying the elements and principles of design, color theory, architecture, decorations and furniture styles, material selection, lighting, floorplanning, design applications, and so much more. We will also cover consumer skills for renting and buying a home, as well as current events, issues, and trends in housing and interior design.

Satisfies the VPAA Credit

Successful Relationships

Grades 9 – 12 • Semester Course • Semester 1 – 69425; Semester 2 – 69426 * ½ Credit

During this course students will explore ways to optimize their relationships, and form realistic expectations for future relationships. Focus will be on skills necessary for building healthy families including the challenges of dating, learning to love, and forming mature relationships.

Teacher Cadet

Grades 11-12 * Year Course * 67920 * 1 Credit

Recommended Course Prerequisite: Child Development and Psychology

Must complete application and receive approval of program staff.

Teacher Cadet is an innovative year-long activity-based curriculum for high school juniors and seniors. The course is designed to provide students with an opportunity to explore, and experience first-hand, teaching as a profession. In this program, Teacher Cadets will be involved in the development and application of content, classroom observations, and actual teaching in a variety of educational settings at multiple levels from preschool to high school classrooms. Students will need to provide their own transportation. Enrollment is application-based with administrator approval.

Satisfies the VPAA Credit

LINK Program

Grades 11 – 12 • Semester Course • Semester 1 – 60023; Semester 2 – 60024 * 1/2 Credit * May be Year Long Course

Prerequisite: Must complete an application and receive approval of program staff.

Description: The LINK student is trained as a peer mentor who will accompany a student with special needs to his/her general or special education classes. The LINK student will model and support appropriate academic and social strategy and behavior so that the student with special needs may meet success. Training requires time outside of the school schedule before the semester begins with on-going support provided throughout the semester. It does involve some lunch hours. Other responsibilities include, but are not limited to, daily journaling and maintaining attendance records, using good communication skills, reviewing and reflecting on current issues and a final project. This is a graded class.

Satisfies the VPAA Credit

Fashion Design and Merchandising

Grades 9 – 12 • Semester Course • Semester 1 – 69413; Semester 2 – 69414 * ½ Credit

This course brings the world of textiles, fashion, and apparel to life through a variety of hands-on projects and experiences. Course topics include the role of fashion in society, consumer decisions, the design process, merchandising and retailing, as well as essential sewing skills. Throughout the semester students will develop practical textile care, repair, alteration, and construction skills, as well as explore related careers.

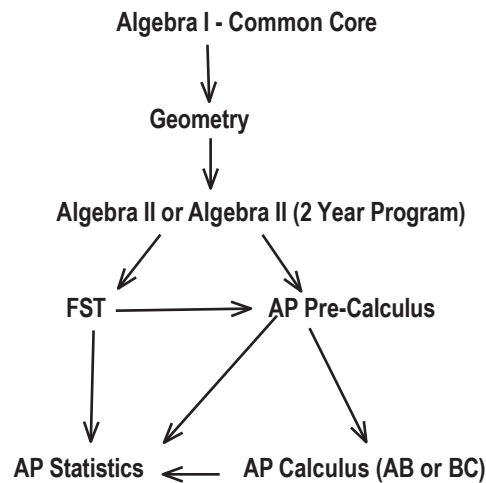
Satisfies the VPAA Credit

Mathematics Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
63070	Algebra I - Common Core	Year	9 – 12	None	Health; Business; Engineering
63110	Geometry	Year	9 – 12	Algebra I	Health; Business; Engineering
63271/63272	Algebra II	Year	9 – 12	Geometry	Health; Business; Engineering
63280	Algebra II (Year One)	Two Years	10-12	Geometry	Health; Business; Engineering
63290	Algebra II (Year Two)	Two Years	10 - 12	Geometry, successful completion of year one	Health; Business, Engineering
63461/63462	Functions, Statistics, and Trigonometry	Year	10 – 12	Algebra II	Business; Engineering; Natural Resources
63707/63708	Advance Placement Pre-Calculus	Year	10 – 12	Algebra II	Business; Engineering; Natural Resources
63711-63712	Advanced Placement Statistics	Year	11 - 12	FST or Pre-Calculus	Business; Engineering; Natural Resources
63705/63706	Advanced Placement Calculus - AB	Year	11 - 12	Pre-Calculus	Business; Engineering; Natural Resources
63701/63702	Advanced Placement Calculus - BC	Year	11 - 12	Pre-Calculus	Business; Engineering; Natural Resources

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Flow Chart - BHS Math



Mathematics Department

Course Descriptions

Algebra I - Common Core

Grades 9 • Year Course * 63070 • 1 Credit

Prerequisite: To be successful in this course students must have mastered operations and simplifying of whole numbers, fractions and decimals, and be able to translate basic word problems into mathematical expressions or equations. Familiarity with a scientific calculator is helpful.

Topics covered in this course include statistics, geometry, linear equations, probability, functions, sets, exponential growth and compound interest. Emphasis is placed on problem solving, graphing and applications *

Geometry

Grades 9 – 12 • Year Course * 63110 • 1 Credit

Prerequisite: Required Credit in Algebra I.

Students should be competent in basic arithmetic skill without a calculator. Students need to know the correct order of operations and be able to solve simple equations and graph linear equations without a calculator. Students need to be competent in mathematical interpretation of word problems.

This course will concentrate on coordinate geometry and transformations for the first half of the year. Working with proofs, formulas, measurement and three- * dimensional figures are the main areas of study in the second half of the year.

Algebra II

Grades 9 – 12 • Year Course * Semester 1 - 63271; Semester 2 - 63272 • 1 Credit

Prerequisite: Required: Credit in Geometry. (Recommended "B" or better in BOTH Algebra I - Common Core and Geometry)

Skills needed include an ability to solve linear equations, ease with all numerical calculations, both with and without calculators, and ability to manipulate mathematical symbols. Students are expected to know basic geometric formulas and theorems.

This course is recommended for all college-bound students. The work in this course will center on linear and quadratic equations, functions and powers and roots. Particular attention will be paid to logarithmic, trigonometric and polynomial functions. Functions will be used to model real-world situations *

Algebra II (Two Year Program)

Grades 10 - 12 * Two Year Course * Year One - 63280 * Year Two - 63290 * 2 Credits

Prerequisite: Credit in Algebra 1 and Geometry.

This course is available by teacher recommendation only. The curriculum is designed to help students who struggled in Algebra 1 and/or Geometry. The pace of instruction is slower so that students have additional time to demonstrate mastery. Successful completion of the two year program satisfies the state graduation requirement *

Functions, Statistics and Trigonometry (F.S.T.)

Grades 10 – 12 • Year Course * Semester 1 - 63461; Semester 2 - 63462 • 1 Credit

Prerequisite: Required: Credit in Algebra II. Recommended: A grade of C or better in Algebra II.

To be successful in this course students should know how to do basic skills on a graphing calculator, multiply and factor quadratic expressions, solve linear and quadratic equations, solve proportions, use rules for exponents, and use sine, cosine and tangent ratios.

This course integrates statistical and algebraic concepts and previews calculus in work with functions and limits. Calculators will be used for plotting functions, analyzing data and simulating experiments. Work with trigonometry and circular functions are also included in this course. This course is recommended for college-bound students *

Advanced Placement Pre-Calculus

Grade 10 - 12 • Year Course * Semester 1 - 63707; Semester 2 - 63708 • 1 Credit

Prerequisite: Credit in Algebra II. Recommended: Grade of B or better in Algebra II, excellent homework and study skills, solid foundation in math.

In this course, students will develop rigorous symbolic manipulation skills needed for future mathematics courses. By examining scenarios, conditions, and data sets and determining and validating an appropriate function model, students will gain a deeper understanding of the nature and behavior of each function type (specifically polynomial, rational, exponential, logarithmic, logistic, trigonometric, and polar). These functions will be examined graphically, numerically, verbally, and analytically. Throughout the course, students will apply the mathematical tools they acquire in real-world modeling situations. Students in this class will be prepared to take the Advanced Placement Pre-Calculus test for a possible 1 semester of college credit *

*** Graphing calculator recommended**

Math Department continued...

Advanced Placement Statistics

Grades 11 - 12 • Year Course * Semester 1 - 63711; Semester 2 - 63712 • 1 Credit

Prerequisite: Pre-Calculus or Functions, Statistics and Trigonometry (F.S.T.). Students need to have good communication skills as well as good algebra skills.

This is an introductory college level course in statistics. Four major themes will be covered: Exploratory data analysis, experimental design (planning a study), probability and statistical inference. The goal of the course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data.*

Advanced Placement Calculus AB

Grades 11-12 • Year Course * Semester 1 - 63705; Semester 2 - 63706 • 1 Credit

Prerequisite: Credit in Pre-Calculus is required. Grade A or B highly recommended.

Student entering this course are expected to possess good skills with a graphing calculator, and be able to solve polynomial, trigonometric, logarithmic and exponential equations. Students will need to have excellent study skills, and be able to read a text effectively.

This is a course covering 1 semester of college calculus (covered over a full year) for the mathematically talented student. Included in this program will be a study of functions, analytic geometry, derivatives, integrals and beginning differential equations. Applications of these topics will be stressed. A graphic calculator is suggested for this class (TI-84+ recommended). Students in this class will be prepared to take the advanced placement calculus (AB) test for possible 1 semester of college credit.

**** Students are not allowed to take AB as juniors and BC as seniors - students must take one or the other.**

Advanced Placement Calculus BC

Grade 11-12 • Year Course * Semester 1 - 63701; Semester 2 - 63702 • 1 Credit

Prerequisite: Credit in Pre-Calculus is required. Grade A highly recommended. Students entering this course are expected to possess good skills with a graphing calculator, and be able to solve polynomial, trigonometric, logarithmic, and exponential equations. Students will need to have excellent study skills, and be able to read a text effectively.

This is a course covering 2 semesters of college calculus for the mathematically talented student. Included in this program will be a study of functions, analytic geometry, infinite series, derivatives, integrals and beginning differential equations. Applications of these topics will be stressed. A graphing calculator is suggested for this class (TI-84+ recommended). Students in this class will be prepared to take the advanced placement calculus (BC) test for possible 1 or 2 semesters of college credit.

**** Students are not allowed to take AB as juniors and BC as seniors - students must take one or the other.**

*** Graphing calculator recommended**

Music Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
68145/68146	Concert Band	Year	9 – 12	Recommendation or successful audition with Band Director	Art/Communication
68153/68154	Symphony Band/Marching Band	Year	10 – 12	Freshman Concert Band	Art/Communication
68191/68192	Wind Ensemble/ Marching Band	Year	11 – 12	Successful audition with Band Director	Art/Communication
68185/68186	Wind Symphony/Marching Band	Year	11 – 12	Symphony Band	Art/Communication
68165/68166	Jazz Band	Semester	9 - 12	Successful audition with band director	Art/Communication
68210	Orchestra I (Symphony)	Year	9 - 12	None	Art/Communication
68220	Orchestra II (Philharmonic)	Year	9 - 12	Audition	Art/Communication
68125/68126	Tenor Bass	Semester	9 – 12	None	Art/Communication
68123/68124	Treble I	Semester	9 – 12	None	Art/Communication
68111/68112	Treble II	Year	9 – 12	Permission of choral director; prior choral/vocal experience	Art/Communication
68135/68136	Treble III	Year	10 – 12	Audition, previous director's recommendation	Art/Communication
68121/68122	Concert Choir	Year	9 - 12	Audition, previous director's recommendation	Art/Communication
68193/68194	AP Music Theory	Year	11 - 12	Permission of director	Art/Communication
05113	Music Tech. & Comp.	Semester	9-12	None	Art/Communication

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Course Descriptions

Concert Band/Marching Band

Grade 9 – 12 • Year Course – 68145/68146 • 1 Credit

Prerequisite: A recommendation from a former director or a successful audition with the high school band director.

A one-year course designed for band students, enrolling in this class will develop their skills as instrumental musicians and will be expected to perform at their highest ability at every scheduled practice and performance. Concert work is a requirement of the class (approximately one concert per quarter).

Symphony Band/Marching Band

Grades 10 – 12 • Year Course – 68153/68154 • 1 Credit

Prerequisite: Freshman Concert Band

A one-year course, designed for intermediate level band students, which includes both a marching and concert-style band experience. Students enrolling in this class will continue to develop their skills as instrumental musicians and be expected to perform at their highest ability at every scheduled practice and performance. Concert work is a requirement of the class (approximately one concert per quarter).

Wind Ensemble/Marching Band

Grade 11 – 12 • Year Course – 68191/68192 • 1 Credit

Prerequisite: Successful audition with the high school band director demonstrating proficiency of the skills developed from previous music classes

This course is designed for those students whose proficiency on their instruments is excellent and who have a good knowledge of music. The program includes both a marching and concert-style band experience and will continue the student's development of musical knowledge through various compositions and arrangements, which will challenge the student's abilities. Concert work is a requirement of the class (approximately one concert per quarter).

Jazz Band

Grades 9 – 12 • Semester course * Semester 1 - 68165; Semester 2 - 68166 * 1/2 Credit

Prerequisite: Successful audition with the high school band director demonstrating proficiency of the skills developed from previous music classes.

This course should be taken for the entire year. Jazz Band will explore the musical forms of jazz, rock, blues, swing and dance. Students in this course will have the opportunity to perform both in school and in the community. Extra time is expected (approximately one concert per quarter).

Wind Symphony

Grades 11 – 12 • Year Course – 68185//68186 • 1 Credit

Prerequisite: Symphony Band

A one year course, designed for intermediate/advanced level band students, which includes both marching and concert-style band experiences. Students enrolling in this class will continue to develop their skills as instrumental musicians and be expected to perform at their highest ability at every scheduled practice and performance. Concert work is a requirement of the class (approximately one concert per quarter).

Music Department continued...

Orchestra I (Symphony)

Grades 9 – 12 • Year course - 68210 • 1 Credit

Prerequisite: None

The Brighton High School Symphony Orchestra is available to students with experience playing an orchestral string instrument and is designed to enhance the skills learned in Middle School orchestra. This orchestra performs several concerts each year, and students are expected to participate in all outside school events, including rehearsals, festivals, and concerts. Private study is encouraged. A Varsity Letter may be earned in orchestra.

Orchestra II (Philharmonic)

Grades 9 – 12 • Year course - 68220 • 1 Credit

Prerequisite: Audition

The Brighton High School Philharmonic Orchestra is an advanced course for orchestra students. Students will be placed in this class by audition. In this course, students will develop the skills necessary to perform unabridged orchestral works. This orchestra performs several concerts each year, and students are expected to participate in all outside school events, including rehearsals, festivals and concerts. Private study is encouraged. A Varsity Letter may be earned in orchestra.

Tenor Bass

Grade 9 – 12 • Semester Course • Semester 1 – 68125; Semester 2 – 68126 • ½ Credit

Students choosing this course must enjoy singing and possess a desire to improve musicianship skills. This choir is an opportunity to learn more about the singing voice and to develop music skills. Various styles of music will be performed including folk, pop, jazz, barbershop and traditional. Students are encouraged to enroll for the year but it is not required. Activities will include performing in the community and district/state festivals. A varsity letter may be earned in choir.

Treble I

Grades 9 – 12 • Semester Course • Semester 1 – 68123; Semester 2 – 68124 • ½ Credit

Students choosing this course must enjoy singing and possess a desire to improve musicianship. Course content will include learning the foundations of vocal techniques, basic concepts of choral/vocal music and developing music reading skills. Music performed varies from traditional to music from around the world along with folk, pop and jazz. Students are encouraged to enroll for the year but it is not required. Performances will include school, community and district/state festivals. A varsity letter may be earned in choir.

Treble II

Grades 9 – 12 • 68111/68112 • 1 Credit

Prerequisite: Successful audition with the high school choir director demonstrating proficiency of the skills developed from previous music classes.

The expected proficiency level and knowledge of the Advanced Treble Ensemble exceeds the confines of primary and rudimentary vocal techniques and choral literature. Students will demonstrate a strong vocal proficiency and knowledge of music fundamentals, i.e. note and rhythm reading and primary level sight-singing. The course will include: 1. Presentation of intermediate/advanced music theory and sight-singing materials, 2. Preparation and performance of diverse and challenging advanced choral literature, 3. Development of independent and small group learning, and 4. Participation in the MSVMA District and State Choral competitions. A varsity letter may be earned in choir.

Treble III

Grades 10 – 12 • Year Course – 68135/68136 • 1 credit

Prerequisite: Audition, previous director's recommendation.

This ensemble is for the vocal student who demonstrates a strong proficiency with her voice and in her music reading ability. A variety of musical styles will be performed with a focus on performing challenging choral music and developing overall musicianship skills. Activities will include concerts in the school and community, and district/state festivals. A varsity letter may be earned in choir.

Concert Choir

Grades 9 – 12 • Year Course – 68121/68122 • 1 credit

Prerequisite: Audition, previous director's recommendation.

This ensemble is a combination of Tenor Bass and Treble III.

Music Technology and Composition

Grades 9 - 12 Semester Course – Course Code: 05113

Students will explore the world of music technology from its origin to today. Music Composition will cover basic music theory as applied to composition, including rhythm, harmony, musical forms and analysis.

AP Music Theory

Grades 11-12 • Year Course • Semester 1 - 68193; Semester 2 - 68194 • 1 Credit

Prerequisite: Students who take this course must be approved by the teacher.

Students who enroll in the course will learn to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. Students will be required to develop aural skills, sight singing skills, written skills, compositional skills and analytical skills. Students will acquire these skills using notation, intervals, scales, chords, rhythmic patterns and metric organization. The class will address these concepts by listening to and analyzing many different styles, genres and cultures of music. Additionally, students will build on these foundations through composition analysis of musical literature. Students will be prepared to take the AP Music Theory exam at the conclusion of the course.

Satisfies the 4th Year Math Credit Requirement

Physical Education Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
69901/69902	Physical Education Readiness	Semester	9 - 12	None	Health Services; Human Services
69921/69922	Team Sports	Semester or Year	9 – 12	Physical Education Readiness	Health Services; Human Services
69923/69924	Individual Sports	Semester or Year	9 - 12	Physical Education Readiness	Health Services; Human Services
69925/69926	Recreational Sports	Semester or Year	9 - 12	Physical Education Readiness	Health Services; Human Services
69985/69986	Physical Education Assistant	Semester or Year	11 – 12	Physical Education Readiness	Health Services; Human Services; Arts/Communications
69935/69936	BFS Weight Training	Semester or Year	9 – 12	Physical Education Readiness	Health Services; Human Services
69945	Nutrition & Fitness	Semester	10 - 12	Physical Education Readiness	Health Services; Human Services
69947	Sports Tech	Semester	10 - 12	Physical Education Readiness	Health Services; Human Services
69948	Sports Tech	Semester	9 - 11	Physical Education Readiness	Health Services; Human Services
69983/69984	Sports Management	Semester or Year	11 - 12	Teacher Approval	Health Services; Human Services; Arts/Communications
69927	Aquatics Basics	Semester	9 - 12	Physical Education Readiness, Teacher Approval	Health Services: Human Services

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Course Descriptions

Physical Education Readiness

Grades 9 - 12 • Semester Course • Semester 1 - 69901

Semester 2 - 69902 • ½ Credit

Student will reach competency using the BFS weight-training system. In addition, the course will focus on the understanding and practice of basic skills and techniques of individual, team, and recreational sports. Grading will consist of in-class participation, written/skill assessments, and homework/in-class assignments.

Team Sports

Grades 9 - 12 • Semester Course • Semester 1 - 69921

Semester 2 – 69922 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

This course will focus on the understanding and practice of basic skills and techniques of team sports. Instruction will include, but not be limited to basketball, volleyball, soccer, softball, and football. Grading will consist of in-class participation, written/skill assessments, and homework/in-class assignments. May be taken both semesters with teacher approval.

Individual Sports

Grades 9 - 12 • Semester Course • Semester 1 - 69923

Semester 2 – 69924 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

This course will focus on the understanding and practice of basic skills and techniques of individual sports. Instruction will include, but not be limited to golf, badminton, pickleball, and disc-golf. Grading will consist of in-class participation, written/skill tests, and homework/in-class assignments.

Recreational Sports

Grades 9 - 12 • Semester Course • Semester 1 – 69925

Semester 2 – 69926 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

This course will focus on the understanding and practice of basic skills and techniques of recreational sports. Instruction will include, but not be limited to swimming, team handball, ultimate Frisbee, and softball. Grading will consist of in-class participation, written/skill tests, and homework/in-class assignments.

Physical Education Assistant

Grades 11 - 12 • Semester Course • Semester 1 – 69985

Semester 2 – 69986 • 1/2 Credit • Pass/Fail Credit

Prerequisite: Physical Education. Must be a junior or senior with department coordinator permission.

A one semester or one-year course. Assistants will be used in Foundation physical education courses. This program is designed to allow those students who have demonstrated a proficiency in sports and a desire to work with other students the opportunity to participate in the teaching of physical education. The job will be to assist the teacher in various tasks and display a good attitude for other students to follow. Assistant application form is required.

Physical Education Department continued...

BFS Weight Training

Grades 9 - 12 • Semester Course • Semester 1 - 69935

Semester 2 - 69936 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

The purpose of this course is for the student to understand and practice the basic skills and techniques of weight and speed training. The main objective is for students to obtain knowledge and practice weight and speed training, nutrition, stretching, and muscle identification. Grading consists of in-class participation, written quizzes and tests, and homework/in-class assignments

Nutrition and Fitness

Grades 9 - 12 • Semester Course • Only Semester 1 – 69945 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

The student will reach competency using the modern nutritional techniques and basic fitness fundamentals. Instruction will focus on BFS body shaping system and will also include, but not limited to weight room safety, plyometrics, flexibility, aerobic/anaerobic training systems, agility based exercises, yoga and cross-fit/boot camp training. Grading will consist of in-class participation, final project, and group or individual assignments

Sports Tech

Grades 10 – 12 • Semester Course • Only Semester 1 - 69947 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

Students will practice sport-specific training methods as well as BFS weight-training system. Instruction will include, but not limited to sport-specific drills, plyometrics, flexibility, speed and agility. Grading will consist of in-class participation, final project, and BFS weight-lifting log

Focus sports: Baseball/Softball, Track & Field, Lacrosse, Soccer, Wrestling, Basketball, Rugby

Sports Tech

Grades 9 – 11 • Semester Course • Only Semester 2 – 69948 • ½ Credit

Prerequisite: Physical Education Readiness or Teacher Approval

Students will practice sport-specific training methods as well as BFS weight-training system. Instruction will include, but not limited to sport-specific drills, plyometrics, flexibility, speed and agility. Grading will consist of in-class participation, final project, and BFS weight-lifting log

Focus sports: Football, Volleyball, Cross Country, Cheer, Pom, Golf, Tennis

Sports Management

Grades 11 – 12 • Semester Course • Semester 1 – 69983

Semester 2 – 69984 • Pass/Fail Credit • ½ Credit

Prerequisite: Teacher Approval

Sports management is a course which provides students with the opportunity to learn essential concepts and principals applied to the field of sports. Students will monitor the safety of the class participants in cooperation with the instructor, aid students with the focus points of lessons, provide individualized instruction, and co-facilitate organized group activities

*Any elective P E class may be taken as soon as student completes P E. It is possible to take P.E. class first semester and an elective P.E. class 2nd semester *

**Students may only select one Physical Education class per semester *

Aquatics Basics

Grades 9-12 • Semester Course • 69927 • 1/2 Credit

Prerequisite: Physical Education Readiness , Teacher Approval

This course will focus on the understanding and practice of basic swimming skills and techniques of individual strokes and kicks. Instruction will include, but not be limited to pool & water safety, front crawl, side stroke, elementary backstroke, treading water, and basic lifeguarding techniques. Grading will consist of in-class participation, written/skills tests, and homework/in-class assignments

Science Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
64070	Biology	Year	9	None (Required)	Health Services; Natural Resources; Business Technology
64501/64502	A P Biology	Year	11 – 12	Biology & Chemistry	Health Services; Natural Resources; Human Services
64521/64522	A P Chemistry	Year	11 – 12	Chemistry and Algebra II	Engineering Technology; Health Services; Natural Resources
64561/64562	AP Environmental Science	Year	10 - 12	Grade 10: A in Biology with teacher recommendation and Geometry or higher Grades 11 & 12: Biology & Chemistry (B or better)	Natural Resources
64541/64542	A P Physics I Algebra Based	Year	11 - 12	Algebra II, Preferably Analysis or Calculus taken concurrently No prior course work in physics is necessary	Engineering Technology; Health Services; Natural Resources
64543/64544	A P Physics 2 Algebra Based	Year	11 - 12	AP Physics I	Engineering Technology; Health Services; Natural Resources
64171/64172	Anatomy and Physiology	Year	11 – 12	Successful completion of two years of Science	Health Services; Natural Resources; Art/Communication
64457/64458	Astronomy	Semester	10 – 12	Successful completion of two years of Science	Natural Resources; Human Services
64441/64442	Botany	Semester	10 – 12	Successful completion of two years of Science or department approval	Natural Resources; Art/Communication; Human Services
64271/64272	Chemistry	Year	10 – 12	Biology and Algebra I	Engineering Technology; Health Services; Natural Resources
64471/64472	Physics	Year	11 – 12	Biology	Engineering Technology; Health Services; Natural Resources
64273/64274	Honors Chemistry	Year	10 - 12	Biology with at least a B-, math requirements per course description	Engineering Technology; Health Services; Natural Resources
64443/64444	Forensics	Semester	10 - 12	Biology and Chemistry	Health Services; Natural Resources; Art/Communication

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Flow Chart

Minimum Requirement for Graduation ~ Three credits ~ Students must earn a credit in Biology, and in Chemistry or Physics, and one additional credit in Elective Science

Minimum Requirement for Graduation ~ Three years

Ninth grade - Biology → Tenth grade - Chemistry → Eleventh grade Physics

Recommended for College-bound students ~ 4 years

Ninth grade - Biology → Tenth grade - Chemistry → Eleventh grade - AP Science or Physics → Twelfth grade - AP Science or Elective

Electives Offered

Advanced Placement Biology
 Advanced Placement Chemistry
 Advanced Placement Environmental Science
 Advanced Placement Physics I and 2

Anatomy and Physiology
 Astronomy
 Forensics
 Botany

Chemistry
 Honors Chemistry
 Physics

Science Department

Course Descriptions

Biology

Grade 9 • Year Course * 64 070 • 1 Credit

Required: This course is required for all ninth grade students.

Biology offers the study of ecology, biochemistry, cells, energetics, chromosomes, cell division, genetics, and evolution. This course includes a variety of lab work and activities that require critical thinking.

After both semesters, successful students will earn one credit in "Biology" toward the Michigan Merit Graduation Requirements.

Advanced Placement Biology

Grades 11 – 12 • Year Course • Semester 1 - 64501; Semester 2 -64502 • 1 Credit

Prerequisite: Successful completion of Honors Chemistry (recommended B or better)

The Advanced Placement Biology course includes topics regularly covered in an introductory biology course for science majors. This course surveys areas of biological study including ecology, biochemistry, molecular biology, genetics, botany and physiology. The class will be taught at a pace similar to the college level with the course material presented through both lecture and laboratory exercises. Throughout the year, students will have the opportunity to hear guest lectures and participate in voluntary off campus laboratory experiences. The Science Department recommends that students enrolled in this course plan to take the Advanced Placement Exam.

Successful students may use one credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Chemistry

Grades 10 – 12 • Year Course • Semester 1 - 64271; Semester 2 - 64272 • 1 Credit

Prerequisite: This is traditionally a sophomore class, and all students are expected/required to complete a year-long Chemistry course. The other option to meet State requirements is Honors Chemistry.

Chemistry is the study of the composition of materials and their basic elements from the atom through complex molecules, their changes, historic and practical applications, family and analytical relationships. This course includes mathematical problem-solving, demonstrations and student laboratory experiments.

This course is designed for students wishing to meet the Michigan Merit Graduation Requirements. After both semesters, successful students will earn one credit in "Chemistry". This course should be considered less rigorous than Chemistry.

Honors Chemistry

Grades 10 - 12 • Year Course • Semester 1 - 64273 • Semester 2 - 64274 • 1 Credit

Prerequisite: Students selecting this course should be self-motivated students that earned at least a B- in Biology. Freshmen in Algebra I should be earning an A and have a recommendation from their teacher. Freshmen in Geometry or above should have a B-average or higher.

Honors Chemistry is the study of the composition of materials and their basic elements from the atom through complex molecules, their changes, historic and practical applications, family, and analytical relationships. This course includes mathematical problem-solving, demonstrations and student laboratory experiments.

This course is designed for the student wishing to pursue a scientific/mathematical career, or attend a traditional liberal arts college. This class is a necessary prerequisite for taking AP science/math or Anatomy classes during Junior or Senior year.

Advanced Placement Chemistry

Grades 11 – 12 • Year Course * Semester 1 - 64521; Semester2 - 64522 • 1 Credit

Prerequisite: Successful completion of Honors Chemistry (recommended B or better), Algebra II taken previously or concurrently

AP Chemistry is designed to be the equivalent of a first -year general college chemistry course. The class will review and build on core skills and concepts from Chemistry, and introduce and explore more advanced topics such as Kinetics, Equilibrium, Thermodynamics, and Electrochemistry. Students will engage in problem solving and lab work that will develop their higher order critical thinking skills and require them to make connections across the domains of chemistry. The large majority of students taking this course will take the AP exam in May and earn either one or two semesters of college credit in chemistry. Successful students may use one credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Physics

Grades 11 – 12 • Year Course * Semester 1 - 64471; Semester 2 - 64472 • Credit: 1

Prerequisite: Successful completion of Biology

The Physics course is the study of matter and energy including the natural laws governing mechanics, motion, forces, kinematics, energy, waves, sound, light and electricity. This course includes mathematical problem-solving, demonstrations and student laboratory experiments. After both semesters, successful students will earn one credit in "Physics" or "Elective Science" toward the Michigan Merit Graduation Requirements.

Advanced Placement Physics I - Algebra-Based

Grade 11 - 12 or department approval • Year Course • Semester 1 - 64541; Semester 2 - 64542 • 1 Credit

Prerequisite: Algebra II, Preferably Analysis or Calculus taken concurrently. No prior course work in Physics is necessary.

The Advanced Placement Physics 1 course is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits. The course emphasizes the development of problem-solving ability. The Science Department recommends that students enrolled in this course plan to take the Advanced Placement Exam.

Successful students may use one credit in "Physics" or "Elective Science" toward the Michigan Merit Graduation Requirements.

Advanced Placement Physics 2 - Algebra Based

Grade 11 -12 • Year Course • Semester 1 - 64543, Semester 2 - 64544; 1 Credit

Prerequisite: Advanced Placement Physics I

The Advanced Placement Physics II course covers fluids, thermodynamics, electricity, magnetism, and optics and nuclear physics. The course emphasizes inquiry-based learning and developing scientific critical thinking and reasoning skills. The Science Department recommends that students enrolled in this course plan to take the Advanced Placement Exam.

Successful students may use one credit in "Physics" or "Elective Science" toward the Michigan Merit Graduation Requirements.

Science Department continued...

Astronomy

Grades 10 – 12 • Semester Course • Semester 1 – 64457 • Semester 2 - 64458 • ½ Credit

Prerequisite: Successful completion of two credits of science.

Astronomy is an advanced space science course that is designed to introduce students to the theories and applications of astrophysics, and to familiarize students with sky observations and space exploration concepts. Students will work on problem-solving using scientific notation and basic algebra skills. This course includes a variety of lab work and activities that require critical thinking.

Successful students may use 1/2 credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Botany

Grades 10 – 12 • Semester Course • Semester 1 – 64441 • Semester 2 – 64442 • ½ Credit

Prerequisite: Successful completion of two credits of science or department approval.

Botany is the study of the Biology of Plants. Students will learn about the importance and uses of plants in our world. They will learn about the parts of plants and how they function. Also explored in this one semester course are various methods of plant reproduction and a plant's effect on its ecosystem. The course includes a variety of lab investigations and activities that require critical thinking. Students will work with plants daily in a variety of situations, inside, outside, and in the greenhouse.

Successful students may use 1/2 credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Advanced Placement Environmental Science

Grades 10-12 • Year Course • Semester 1 - 64561; Semester 2 - 64562 • 1 Credit

Prerequisite: For Grade 10 only: An A in Biology and a recommendation from Biology teacher and successful completion of Geometry or higher, Honors Chemistry must be taken concurrently with this class (not Chemistry). For Grades 11 and 12: Successful completion of Biology and Chemistry (recommended B or better).

The Advanced Placement Environmental Science course leads students in exploring Earth systems, by investigating concepts involving the living world and its interactions with land and water use, energy resources and consumption. There is a special emphasis on examining pollution and its impacts on the economy, the environment, and global climate change.

The Science Department recommends that students enrolled in this course plan to take the Advanced Placement Exam. Students can earn one semester of college credit.

Successful students may use one credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Anatomy and Physiology

Grades: 11 – 12 • Year Course • Semester 1 - 64171; Semester 2 - 64172 • 1 Credit

Prerequisite: Successful completion of two credits of science.

Anatomy and Physiology will cover the structure and function of human body systems. A major portion of Anatomy and Physiology will involve laboratory investigations. Current medical approaches, discoveries, and technology are included throughout the course. Students will understand the relationships between body systems and how they contribute to the survival of the human organism. Emphasis in the class is guided by our major principles: laboratory-based/hands-on approach, comparison of homeostasis to disease, relationships of structure to function, and relevance to students' lives.

Successful students may use one credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Forensics

Grades 10 - 12 • Semester Course • Semester 1 - 64443 • Semester 2 - 64444 • 1/2 Credit

Prerequisite: Biology and Chemistry

The main focus of this course is an emphasis of the evidential value of a crime scene and related evidence and the services of what has become known as the crime laboratory. This course combines basic theory and real laboratory experiments, creating an experiment based situation for the application of deeper understanding for the students. The experiments used reinforce previously learned scientific principles rooted in Biology, Chemistry and Physics as well as incorporating Earth Science, Anatomy and Physiology.

Successful students may use 1/2 credit in "Elective Science" toward the Michigan Merit Graduation Requirements.

Social Studies Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
62250	United States History and Geography (required)	Year	9	None	Human Services; Art/Communication
62051/62052	World History and Geography (required)	Year	10	None	Human Services; Art/Communication
62451/62452	Civics (required)	Semester	11	None	Health Services; Human Services
62453/62454	Economics (required)	Semester	11	None	Health Services, Human Services
62461/62462	Close-Up Government/ Economics	Year	11 - 12	None	Health Services, Human Services
62741/62742	Advanced Placement United States Government & Politics	Year	11 - 12	None	Health Services, Human Services
62465/62466	Current Events	Semester	10 – 12	Passing grade in U S History	Health Services; Natural Resources; Human Services
62701/62702	Advanced Placement United States History	Year	10 – 12	None	Human Services; Art/Communication
62711/62712	Advanced Placement European History	Year	10 - 12	None	Human Services, Art/Communication
62271/62272	Military History: Civilization and Conflict	Semester	10 - 12	Passing grade in U S and/ or World History	Human Services, Art/Communication
62265/62266	Sociology	Semester	11 - 12	None	Business Technology; Health Services; Human Services
62255/62256	Psychology	Semester	10 - 12	None	Business Technology; Health Services; Human Services
62721/62722	Advanced Placement Psychology	Year	11 - 12	None	Business Technology; Health Services; Human Services
62053/62054	Advanced Placement World History	Year	10 - 12	None	Human Services, Art/Communication
62457/62458	Postwar America	Semester	11 - 12	Passing grade in U S History	Health Services, Human Services
62731	Advanced Placement Microeconomics	Semester	11 - 12	None	Health Services, Human Services
62734	Advanced Placement Macroeconomics	Semester	11 - 12	None	Health Services, Human Services
62743/62744	Advanced Placement Comparative Government & Politics	Year	11 - 12	None	Health Services, Human Services

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Social Studies Department

Course Descriptions

United States History and Geography

Grades 9 • Year Course * 62250 • 1 Credit

All freshmen are required to take this year long course for graduation credit. This class continues the study of American History begun in the eighth grade. The course will focus on American economic, political and social life from the 1870's to the present.

World History and Geography

Grades 10 • Year Course * Semester 1 - 62051; Semester 2 - 62052 • 1 Credit

World History and Geography is a full year course required for graduation. The course focuses on eras of human history from 1500 to the present. The course requires the use and application of the following skills: •Critical thinking •Essay writing •Group participation and cooperation •Listening skills •Art appreciation •Music and video interpretation

Civics

Grade 11 • Semester Course • Semester 1 – 62451; Semester 2 – 62452 • ½ Credit

Civics is a one semester course required for high school graduation. This course examines government at the federal, state and local levels. Throughout the course students will consider the ways in which government in this country is organized, the ways in which people participate, the many things the government does and the way it does them.

Economics

Grade 11 • Semester Course • Semester 1 – 62453; Semester 2 – 62454 • ½ Credit

Economics is a one semester course required for high school graduation. The focus of the course includes economic principles at the macro and micro level, as well as personal financial literacy. The overarching problem of scarcity is an integral part of the course. Students deepen their prior knowledge of basic economic concepts and apply them to national and international economic systems. Students study how interactions of buyers and sellers impact prices as well as the role of trade-offs and incentives in consumer and business decisions. Students use their economic knowledge to make informed decisions as consumers and to participate as citizens in deciding matters of economic policy.

Psychology

Grades 10 – 12 • Semester Course • Semester – 62255; Semester 2 – 62256 • ½ Credit

This semester course introduces students to the psychology of human behavior with group experiments, sample surveys, tests, interviews and role-playing. Among the topics covered will be learning and thinking, perception, emotion, adjustment, personality and intelligence.

Sociology

Grades 11 – 12 • Semester Course • Semester 1– 62265; Semester 2 - 62266 * ½ Credit

This semester course will introduce students to sociology - the scientific study of human society and social behavior. The overarching goal of the course is to help students understand how individual human development is a group experience from infancy to old age, how the social world impacts their lives, and how they, in turn, affect the lives of others in this social world. All areas of social life will be examined including culture, religion, schools, family, gender, race, class, stratification/inequality, and crime/defiance. The main focus of the course will be on the ways in which our behavior is influenced by groups; the nature and functions of the social institutions which we have created; and the relationship that exists between the individual and society. (Formerly known as History of Social Behavior)

Close-up Government/Economics

Grades 11 – 12 • Year Course * Semester 1 - 62461; Semester 2 - 62462 • 1 Credit

Close Up is a yearlong course, which provides an in-depth alternative to the Civics & Econ classes that students are required to take. Close Up is not an Advanced Placement class, but students will earn one full Social Studies credit (half credit for Civics, half credit for Econ). Students who have selected Close Up are required to participate in a weeklong government studies program in Washington, D.C. This is a graded part of the course curriculum. Our week in Washington, D.C. is action packed. Close Up students attend seminars with members of Congress; meet representatives of the media and members of the Judicial and Executive branches of government. Brighton students will meet and interact with students from across the country and world and together they will explore our government, using the city as their classroom. We will also be taking a closer look at our local and state governments as well! The cost of this program is approximately \$1,950 and is the responsibility of the student. Partial fellowships are available for students who qualify for financial aid. Students should be committed to the program when they request the class. **A \$525 nonrefundable trip deposit is required at registration.**

Current Events

Grades 10 – 12 • Semester Course; Semester 1 – 62465 ; Semester 2 – 62466 • ½ Credit

Prerequisite: Passing grade in U.S. History

Current Events is a seminar course that explores some of the most compelling issues facing the United States and the World today. Students will become critical users of all forms of media as they learn about a variety of regional, national and international issues. The Current Events course has an online component where students interact with a classroom website to access information, participate in discussion forums and blogs, and submit assignments in an online format. Students may take this course more than once for elective Social Studies credit.

Postwar America Courses

Grades 11 -12 * Semester Course * - 62457/62458* 1/2 Credit

Prerequisite: Passing grade in U.S. History

Examines the issues and trends that have captured the attention of Americans in the decades following World War II. The course will focus on the following topics: The Red Scare, Fear and Popular Culture of the 1950s, The Development of the Suburbs and the Interstate Highway System, The Civil Rights Movement, the Assassinations of the 1960s, the Vietnam War and the Anti-War Movement, Nixon and Watergate, Serial Killers, Crime, Globalization, Domestic Terrorism, 9/11 and other International Terrorists incidents, and Post 9/11 America. This is a media and document based class in which the students will receive a grade based on daily work, homework, projects, and quizzes.

Military History: Civilization and Conflict

Grades 10 - 12 * Semester Course * Semester 1-62271; Semester 2 - 62272 * 1/2 Credit

*Prerequisite: Passing grade in U.S. and/or World History

Military History: Civilization and Conflict is a semester long course that examines one of the most dynamic elements of history. From ancient times to the modern day, military conflict and the threat of military conflict has shaped the course of history. Conflict is as important in determining the course of mankind as political, social, and economic issues. Conflict has dethroned kings, toppled mighty empires, dictated foreign policy, and pitted civilizations against one another. This course will examine the history of military conflict around the world with special emphasis placed on the cause and effect military affairs, the teachings of Sun-Tzu, Clausewitz, and Patton, the role of the soldier in society, the political and technological innovations which determine the outcomes of military action, black/special operations and small unit tactics, military disasters and blunders, David v Goliath match-ups, 20th Century Warfare, the future of war, and the development of military institutions in civilization. This class will appeal to a wide variety of students with a variety of learning styles. The instructor will incorporate research-based papers, interpretation of primary and secondary sources, hand-on projects, simulations, analysis of visual media, online research, guest speakers offering first-hand accounts, and class discussions.

Social Studies Department continued.

Advanced Placement Psychology

Grades 11 - 12 * Year Course * Semester 1 - 62721; Semester 2 - 62722 * 1 Credit

Prerequisite: Strong interest in academic performance and in the study of human behavior and mental processes; ability to read, write and study independently is required.

A one year course that is designed to study the scientific approach of mental processes and behavior of humans and other animals. Students will be immersed into psychological research, studies, experiments, and other aspects that help explain why humans operate the way they do at both the behavioral and mental levels. All psychological approaches are used - for example, the cognitive, biological, and social approaches, to create a diverse understanding of how the human thought processes affect our actions. Students will also learn and practice ethics and methods that psychologists perform within their practice. The course is designed to be student-centered. This course prepares students for the College Board Advanced Placement Examination, which takes place in May.

Advanced Placement World History

Grades 10 - 12* Year Course * Semester 1 - 62053; Semester 2 - 62054 * 1 Credit

A one-year course designed to study the major trends and events in World History. The course can be taken to fulfill the Michigan Merit Curriculum World History requirement. The history is broken down into six main chronological time periods ending at present-day and covers all Michigan high school World History standards. In addition to providing exposure to the factual narrative, the goals of the Advanced Placement World History program are to develop: (a) an understanding of some of the principal themes in World History; (b) an ability to analyze historical evidence, and (c) an ability to express that understanding. Students will learn essential concepts and develop historical thinking skills. Students who consider this course should be self-motivated and must be able to read at an accelerated rate. There is also a significant writing component to this class. The course is designed to be student-centered. Students must be willing to communicate via discussions, debates, and simulations. This course prepares students for the College Board Advanced Placement Examination, which takes place in May of every school year.

Advanced Placement United States History

Grades 10 - 12 • Year Course – Semester 1-62701; Semester 2-62702 • 1 Credit

A one-year course designed to study and assess American history from exploration and colonization through the present. Students will identify political history, foreign affairs, economic and social development, and literary and cultural history in conjunction with the course. Students are expected to analyze and interpret primary sources including documentary material, maps, statistical tables, pictorial and graphic evidence of historical events. The student will be expected to develop a chronological view of U.S. History through major interpretive questions derived from the study of selected themes and to draw upon a reservoir of systematic factual knowledge in order to exercise analytical skills intelligently. The student must develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present ideas clearly and persuasively in essay format. This course prepares the student for the college bound Advanced Placement Examination, paid for at student expense. It is recommended that students have a strong interest in U.S. history and demonstrate strong performance in previous Social Studies classes. The ability to read and write well is imperative to success in the course.

Advanced Placement European History

Grades 10 - 12 • Year Course – Semester 1-62711; Semester 2- 62712 • 1 Credit

A one-year course designed to study the major trends and events in European History that occurred from approximately 1450 to the present day. In addition to providing exposure to the factual narrative, the goals of the Advanced Placement European History program are to develop: (a) an understanding of some of the principal themes in modern European history; (b) an ability to analyze historical evidence, and (c) an ability to express that understanding. Students who consider this course should be self-motivated and willing to read at an accelerated rate. The course is designed to be student-centered. Students must be willing and able to communicate via discussions, and simulations. This course prepares students for the College Board Advanced Placement Examination.

Advanced Placement United States Government & Politics

Grades 11 - 12 * Year Course * Semester 1 - 62741; Semester 2 - 62742 * 1 Credit

Prerequisite: Strong interest in academic performance and in the study of U.S. Government and Politics; ability to read, write and study independently is required.

This year-long class is being offered as a combination civics and Advanced Government course in preparation for the AP United States Government Exam. Students taking Advanced Government will earn their required semester credit for civics in addition to credit for Advanced Government (with a weighted grade).

Advanced Placement Comparative Government & Politics

Grades 11 - 12 * Semester Course * Semester 1 - 62743; Semester 2 - 62744 * 1/2 Credit

This course is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis. Students are encouraged to build their knowledge of the course countries through current and recent historical events to inform how governments solve complex domestic and international problems.

*Does not replace Civics credit requirement

Advanced Placement Microeconomics

Grades 11 - 12* Semester Course * Semester 1 - 67231 * 1/2 Credit

AP Microeconomics is an introductory college-level microeconomics course. Students cultivate their understanding of the principles that apply to the functions of individual economic decision-makers by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy. The course focuses on the principles of individual economic decision-making and the interaction between buyers and sellers in various market structures. It delves into the analysis of consumer behavior, firm behavior, and market structures, emphasizing the allocation of resources and the distribution of income.

Advanced Placement Macroeconomics

Grades 11 - 12* Semester Course * Semester 2 - 67234 * 1/2 Credit

Students will gain a thorough understanding of the principles of economics that apply to an economic system as a whole. AP Macroeconomics will place a heavy emphasis on macroeconomics which includes the study of national income and price-level determination, and also develop students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students will be trained to analyze and interpret primary and secondary sources including documentary materials, statistical tables, and graphic evidence of the principles of economics. They will be proficient at reading and creating graphs and tables directly related to the core principles of economics. Students will write in a variety of formats. They will gain proficiency in note taking from printed material, lecture, and/or discussions. They will learn to create and analyze economic models and use these models to answer various economic problems.

Special Education Department

Course number	Course name	Semester/year	Grade*	Prerequisite*	Career pathway
09995/09996	Basic Resource Room	Year or semester	9 - 12	Permission of instructor and IEPC	* All Pathways
60051/60052	Employability Skills	Year Course	9 - 12	Teacher Recommendation	* All Pathways
60980	Social Communication Skills	Year or semester	9 - 12	Permission of instructor and IEPC	* All Pathways
60703/60704	WRAP/Work Study	Year or semester 2 Hour Block	11 - 12	Pre-vocational I and Permission of instructor	* All Pathways
60140/60141/60142	Foundation English	Year or semester	9 – 12	Permission of instructor and IEPC	* All Pathways
60341/60342	Foundation Math	Year or semester	9 – 12	Permission of instructor and IEPC	* All Pathways
60441/60442	Foundation Science	Year or semester	9 – 12	Permission of instructor and IEPC	* All Pathways
60211/60212	Foundation Social Studies	Year or semester	9 – 12	Permission of instructor and IEPC	* All Pathways
63011/63012	EdReady Math	Year or semester	9 – 12	Permission of instructor and IEPC	* All Pathways
68003/68004	Foundation of Art	Semester	9 – 12	Permission of instructor and IEPC	* All Pathways
69955/69956	Foundations of Physical Education	Semester or Year	9 - 12	Placement by counselor or an IEPC	* All Pathways
67175/67176	Auto Detailing	Semester	9 - 12	Permission of instructor and IEPC	* All Pathways

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Flow Chart

Transition Certificate (Non Michigan Merit Diploma Track)



Transition Certificate = Adult Transition
 Vocational Training
 Job Placement

Michigan Merit Diploma with Regular Education Core Curriculum



Community College or 4 Year University and beyond

Students planning to apply to a Bachelor's degree program at a 4-year college or university after high school need to demonstrate strong skills through successful completion of regular education academic courses with minimal support

Special Education Department

Course Descriptions

Available only to special education students pre-arranged by the IEPC process

Departmentalized Program

* Basic Resource Room

Grades 9-12 • Semester 1 – 09995; Semester 2 – 09996

1 Credit for year-long course; 1/2 Credit for semester course

This one or two-semester class provides specially designed instruction towards IEP goals and supports students' academic success in general education classes. This course can address a variety of areas including: study skills, time management, self-advocacy skills, organizational techniques, and other individual-based academic and social needs. This class is mandated through the IEP Team and will count as an elective credit toward graduation requirements. All instruction is based upon the individual needs of each student within the class.

* Employability Skills

Grades 9 - 12 • Year Course • Semester 1 -60061; Semester 2- 60062 • 1 Credit

The Pre-Vocational program teaches specific skills that are needed every day. Skills are taught in groups, modeled by instructors, and practiced through class activities, role-playing and community outings. Students are encouraged to practice these skills in the real world. All instruction is based on Individualized Education Plans.

* This class is a pre-requisite for the WRAP/Work Study

* Auto Detailing

Grades 9 - 12 • Semester Course • Semester 1 -67175; Semester 2-67176 • 1/2 Credit

This course is designed for students interested in learning how vehicles operate and how to perform automotive detailing and basic maintenance. A state-of-the-art lab setting, industry grade tools and equipment, and daily hands-on activities provide an excellent foundation for students interested in mastering vehicle detailing. Auto detailing prepares students for a potential career in Automotive Detailing and post repair delivery in automotive collision shops and dealerships. All instruction is based on Individualized Education Plans.

* Social Communications Skills

Grades 9 – 12 • Semester or year-long course • Year – 60980; Semester 1 – 60983; Semester 2 – 60984 • 1 Credit for year-long course; ½ Credit for semester course

This social skills class is designed to assist the student with Autism Spectrum Disorder (ASD) and those with similar diagnoses such as Pragmatic Language Deficits (primarily social skills) in targeting IEP goals in the area of social communication and social interactions. Research shows that students with these diagnoses typically experience life-long difficulties in the areas of social communication and social judgment. The goal of this course is to provide understanding, tools and strategies that the students can utilize throughout their high school and post high school lives. All instruction is based on Individualized Education Plans.

* WRAP/Work Study

Grades 11 – 12 • Year Course – Semester 1 - 60703; Semester 2 - 60704 • 1 Credit • 2 Hour Block

Prerequisite: Successful completion of a Pre-vocational I and II and teacher approval needed

This course is a year-long, two hour block course that is designed to assess employability and engage students in real-life work experiences within the community. Three job rotations are explored during the school year, in addition to classroom coursework intended to enhance individual employability. This course is for seniors; however, juniors may be considered with teacher recommendation. All instruction is based on Individualized Education Plans.

Special Education Continued...

Foundation Programs – Prerequisite: Permission of instructor and IEPC

*** Foundation English**

Grades 9 – 12 • Year Course * Semester 1 - 60141;Semester 2 - 60142 • 1 Credit

This year-long course meets a one-year English requirement for special education students. The content will include basic Language Arts skills in reading, writing, speaking, listening and research. This course may be retaken for credit. All instruction is based on Individualized Education Plans.

*** Foundation Math**

Grades 9 – 12 • Year Course * Semester 1 - 60341;Semester 2 - 60342 • 1 Credit

This year-long course designed to meet a math requirement for special education students. The content will include basic computational skills. This course may be retaken for credit. All instruction is based on Individualized Education Plans.

*** Foundation Science**

Grades 9 – 12 • Year Course * Semester 1 - 60441;Semester 2 - 60442 • 1 Credit

This year-long course meets a science requirement for special education students. The content will include basic concepts of biology and geophysical science. This course may be retaken for credit. All instruction is based on Individualized Education Plans.

*** Foundation Social Studies**

Grades 9 – 12 • Year course * Semester 1 - 60211;Semester 2 - 60212 • 1 Credit

A year-long course designed to meet a social studies requirement for Rule 41 special education students. The content and objectives of this course will be specified by the instructor in accordance with Brighton High School and Livingston Intermediate School District social studies objectives. All instruction is based on Individualized Education Plans.

*** EdReady Math**

Grades 9 – 12 • Year Course * Semester 1 - 63011;Semester 2 - 63012 • 1 Credit

EdReady math provides students a personalized study path based on the results of diagnostic testing. This student's study path is designed to help students master critical skills and concepts in math. Students work on an individualized basis on their personal study path with the assistance of a certified math teacher. This class is only available to students through a personal curriculum with administrator approval. All instruction is based on Individualized Education Plans.

*** Foundation of Art**

Grades 9 – 12 • Semester Course * Semester 1 - 68003;Semester 2 - 68004 • 1/2 Credit

This semester-long course meets a Fine Art requirement for special education students. This course is for students interested in art but not committed to one concentration. Media to be explored may include printmaking, drawing and painting, collage, clay, and fiber arts. The elements and principles of design will be applied and emphasized in each work of art. This course will fulfill the fine arts requirement for graduation at Brighton High School when taken for two semesters. All instruction is based on Individual Education Plans.

*** Foundations of Physical Education**

Grades 9 – 12 • Semester Course • Semester 1– 69955;Semester 2 - 69956 • ½ Credit

This course is for students who have unique physical, medical or cognitive needs. Students with unique needs may take this course as an elective to improve their personal fitness level and increase their recreational skills. The goal of this course is to engage in regular physical activity, learn skills for recreation in the adult years and to understand the benefits of physical activity. This course will fulfill the Physical Education requirement for graduation at Brighton High School. All instruction is based on Individualized Education Plans.

*** Prerequisite: Permission of instructor and IEPC**

Technology and Industry Department

Year

Course number	Course name	Semester	Grade*	Prerequisite*	Career pathway
67025/67026	Auto Maintenance	Semester - 1 Hour	9 - 12	None	Automotive Technology Engineering Technology Industrial Technology
67223/67224	Automotive Technology I	Year - 1 Hour	9 - 12	None	Automotive Technology Engineering Technology Industrial Technology
67225/67226	Automotive Technology II	Year - 2 Hour Block	10 - 12	None	Automotive Technology Engineering Technology Industrial Technology
67227/67228	Advanced Automotive Technology	Year - 2 Hour Block	11 - 12	Auto Technology II B or better grade	Automotive Technology Engineering Technology Industrial Technology
67045/67046	Engineering Design Technology 1	Semester	9 – 12	None	Art/Communication Engineering Technology Natural Resources
67243/67244	Architectural Computer Aided Drawing and Design	Semester	9 – 12	Engineering Design Technology 1	Art/Communication Engineering Technology Natural Resources
67241/67242	Engineering Design Technology 2	Semester	9 – 12	Engineering Design Technology 1	Art/Communication Engineering Technology Natural Resources
67111/67112	Engineering Applications (Mechanical/Architecture)	Semester	10 – 12	Engineering Design Technology 1&2	Engineering Technology
67120	Engineering Applications (Mechanical /Architecture) Block	Year - 2 Hour Block	10 – 12	Engineering Design Technology 1 & 2 or Architecture	Engineering Technology
67063/67064	Engineering Robotics Technology I	Semester	9 - 12	None	Industrial Technology Engineering Technology
67067/67068	Engineering Robotics Technology II	Semester	10 - 12	Engineering Robotics I	Industrial Technology Engineering Technology
67011/67012	Engineering Robotics Technology III	Semester	9 - 12	None	Industrial Technology Engineering Technology
67013/6014	Introduction to Machining and Prototyping	Semester	9 - 12	None	Industrial Technology Engineering Technology
67085/67086	Introduction to Graphic Communications	Semester	9 – 12	None	Art/Communication
67087/67088	Graphic Design	Year	10 - 12	None	Art/Communication
67285/67286	Graphic Communications I and II	Year or 2 consecutive years	10 – 12	None	Art/Communication
67083/67084	Advanced Graphics and Signage	Semester	11 - 12	Graphic Design or Graphic Communications	Art/Communication

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Technology and Industry Flow Chart

Engineering Technology Program

Engineering Design Technology 1
1 Semester

Engineering Design Technology 2
1 Semester

Engineering Applications
(Mechanical and Architecture Engineering)
- Semester Long or
- 2 Hour Block for 1 Year
- May be taken multiple times for credit

Graphics Program

Introduction to Graphic Communication ↔ Graphic Design

or Architectural CADD
- Semester long
- May be taken multiple times for Credit

Graphic Communications I

Graphic Communications II

Advanced Graphics and Signage

Automotive Technology

Automotive Technology 1

Auto Maintenance

Automotive Technology II

Advanced Automotive Technology

Technology and Industry Course Descriptions

Please see Page 2 regarding CTE courses that fulfill the World Language requirements.

Auto Maintenance

Grades 9-12 * Semester Course * Semester 1 - 67025; Semester 2 - 67026 * 1/2 Credit

This course is designed for students interested in learning how vehicles operate and how to perform maintenance and basic repairs. A state-of-the-art lab setting, industry grade tools and equipment, and daily hands-on activities provide an excellent foundation for students interested in mastering vehicle repair or preparing for an engineering or technical field. Students enrolled in this course may transition into Automotive Technology I at the start of the second semester pending instructor and counseling approval. Seats are limited.

Automotive Technology I

Grades 9 - 12 * Year Course * Semester 1 - 67223; Semester 2 - 67224 * 1 Credit

This course is designed for students who have a strong interest in gaining the experience necessary to repair vehicles and perform proper maintenance. Areas of lab work include brake system, fuel and ignition system, suspension system, steering system, and electrical system training. Students enrolled in this course are encouraged to transition to Automotive Technology II for continuation in Automotive Technology.

Satisfies the 4th Year Math Credit and/or the VPAA credit requirement and/or the 2nd Year World Language Credit

Automotive Technology II

Grades 10- 12 * Year Course * Semester 1 - 67225; Semester 2 -67226 * 2 Hour Block * 2 Credits

Prerequisite: Automotive Technology I with a C or better average

This course is a nationally accredited course that can offer students articulated college credit in the area of Automotive Service Technology. Students will train in an intense Maintenance and Light Repair program building upon many of the skills learned in Automotive Technology I. This course prepares students for employability in an automotive field, success in a college technical, engineering, or trade program, and the benefit of possessing the skills needed to perform repairs as a vehicle owner. Students enrolled in this course are encouraged to transition into Advanced Automotive Technology for continuation in Automotive Technology.

Satisfies the 4th Year Math Credit and/or the VPAA Credit requirement and/or 2nd Year World Language Credit

Advanced Automotive Technology

Grades 11 - 12 * Year Course * Semester 1 - 67227; Semester 2 - 67228 * 2 Hour Block * 2 Credits

Prerequisite: Automotive Technology II with a B or better average and instructor approval. Maximum of 8 students will be admitted.

Students who have completed Automotive Technology II with a B or better, can engage in a high-level, specialized senior capstone course that focuses on engine operation, engine building and blueprinting, fuel injection and ignition control systems as well as the opportunity to engage in complex vehicle diagnosis and repair on project and customer vehicles. Students are encouraged to work on their personal vehicles when possible. Students will have the opportunity to use all of the skills gained in previous Automotive courses on multiple cutting-edge projects to hone their Automotive skills and prepare for successful college and/or career experiences.

Satisfies the 4th Year Math Credit and/or the VPAA Credit requirement and/or 2nd Year World Language Credit

Architectural Computer Aided Drafting and Design

Grades 9 – 12 • Semester Course • Semester 1–67243; Semester 2–67244 * 1/2 Credit

Prerequisite: Engineering Design Technology 1

Course maybe taken multiple times for Credit

Building on the 2-D and 3-D design skills gained in Engineering Design Technology 1; students will learn drafting practices as they relate to the world of architecture. Topics of study include: residential/commercial design, building construction methods, blueprint reading, 3-D design and model building. Students will learn proper building techniques and floor plan design. Students will utilize a Building Information Modeling (BIM) Software that will design all objects of the building in 3-D; applying proper measurements to objects that meet building code requirements; i.e. walls, doors, windows, cabinets, etc.

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Design Technology 1

Grades 9 – 12 • Semester Course • Semester 1 – 67045; Semester 2 – 67046 • ½ Credit

Course provides students the experience of being an Engineer. Students begin to learn the tools and fundamental principles to prepare for a career in Engineering, utilizing Computer Aided Design (CAD) software, technical drawing sketches and 3-D Printing to show the workflow in creating a prototype or product. Students will learn to design 2D and 3D Parts of common objects from manufactured machine parts to woodworking projects. Topics include multi-view drawings, 3-D solid modeling, section views, sketching and dimensioning of objects. This class is designed for those students interested in the engineering, construction trades, manufacturing or any trade requiring blueprint reading.

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Design Technology 2

Grades 9 – 12 • Semester Course • Semester 1 - 67241; Semester 2– 67242 * ½ Credit

Prerequisite: Engineering Design Technology 1

Course will continue building on the knowledge gained from the Engineering Design Technology 1; topics of study include: advanced solid modeling, assemblies, basic descriptive geometry. Students will present projects that meet industrial standards, utilizing best practices for detail drawing, auxiliary and sectional views, and dimensioning principles. This class will help further prepare students for Engineering College Majors and/or Entry Level Engineering jobs.

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Technology and Industry Continued...

Engineering Applications (Mechanical/Architecture) Block

Grades 11 - 12 • Year Course * 67120 * 2 Hour Block * 2 Credits

Course may be taken multiple times for credit

Prerequisite: Engineering Design Technology 1 & 2

Course furthers the develops students engineering skills from the previous courses This course is a multi-level course where students can take multiple times for credit. Each semester has specific engineering content assigned to it. Content includes learning and applying Advanced Computer Aided Design (CAD) modeling/assemblies, Electrical Systems, Arduino Micro Controller Programming in C++, Program Logic Controller using Ladder Logic, Robotic Arm, Informational Technologies, Additive Manufacturing (3-D Printing), Machining Principles and Programming of CNC Lathe and Mill Projects include the integration of multiple tools and software to perform a task Projects would include the application of reverse engineering products, designing individual projects utilizing the Engineering Design Process, CAD Systems, machining principles and electrical/informational systems Students will also be given the opportunity to meet with Engineers in the field via guest speakers and site tours. This class will help further prepare students for Engineering College Majors and/or Entry Level Engineering jobs

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Applications (Mechanical/Architecture)

Grades 10 - 12 • Semester Course * Semester 1 - 67111; Semester 2 - 67112 * 1/2 Credit

Prerequisite: Engineering Design Technology 1 & 2

Course may be taken multiple times for credit

Course furthers the develops students engineering skills from the previous courses This course is a multi-level course where students can take multiple times for credit. Each semester has specific engineering content assigned to it. Content includes learning and applying Advanced Computer Aided Design (CAD) modeling/assemblies, Electrical Systems, Arduino Micro Controller Programming in C++, Program Logic Controller using Ladder Logic, Robotic Arm, Informational Technologies, Additive Manufacturing (3-D Printing), Machining Principles and Programming of CNC Lathe and Mill Projects include the integration of multiple tools and software to perform a task Projects would include the application of reverse engineering products, designing individual projects utilizing the Engineering Design Process, CAD Systems, machining principles and electrical/informational systems Students will also be given the opportunity to meet with Engineers in the field via guest speakers and site tours. This class will help further prepare students for Engineering College Majors and/or Entry Level Engineering jobs

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Robotics Technology 1: Mobility and Introduction to Sensors

Grades 9-12 • Semester Course • Semester 1 - 67063; Semester 2 - 67064 • 1/2 Credit

This course students will explore the field of robotic design using a variety of hands-on activities Students will be introduced to various types of robots (Stationary and Mobile) where they will use problem solving skills to complete different tasks Students will learn basic programming skills to provide instructions to the robot on how to complete defined tasks. Students will work to design, build, program and document their robots' inputs/outputs Mechanical concepts such as gearing/torque/speed/power are introduced Other topics include motor control, sensors, timing, decision-making, timing sequences, drive trains, actuator and manipulator designs

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Robotics Technology 2: Automation, Controllers & Sensor Integration

Grades 10 – 12 • Semester Course • Semester 1 – 67067 • Semester 2 – 67068 • 1/2 Credit

Prerequisite: Engineering Robotics I

Course builds upon knowledge gained from Engineering Robotics I Students will further explore robotic technologies and their application within manufacturing industry Students will learn to apply electrical theory to circuits, use Arduino Micro Controller, Program Logical Controllers (PLC) to control automated systems and programming of Fanuc Robotic Arm with applications within an automated system Students will learn to programing languages C++ and Ladder Logic

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Introduction to Machining & Prototyping

Grades 9-12 • Semester Course • Semester 1 - 67013; Semester 2 - 67014 • 1/2 Credit

This course will teach students the principles to operate and maintain Manual Machine Tools and CNC Machines as used in modern industry to prototype components/products Students will learn the Engineering Design Process to develop and prototype product that will use Safety, measurement and problem solving will be used to complete a variety of projects utilizing a variety of industrial machines, including lathes and mills A working knowledge of hand and machine tools will be achieved through lectures, demonstrations and hands-on projects

May be taken multiple times for credit: Semester 1: Introduction to Milling Machining, Semester 2: Introduction to Turning (Lathe) Machining, Semester 3: Prototyping Project(s)

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Engineering Robotics Technology 3: Industrial Robots and Integrated Systems

Grades 9-12 • Semester Course • Semester 1 - 67011; Semester 2 - 67012 • 1/2 Credit

Prerequisite: Engineering Robotics I

This course will present a technician's level understanding of integrated systems The course will introduce students to the process of designing, creating and maintaining complex information systems utilizing electrical technology, power systems, computer programming and material fabrication, by using an industrial robot system to deliver relevant applications

Satisfies Graduation Credit: VPAA, 4th Year Math, Computer Credit and 2nd Year Foreign Language

Technology and Industry Continued...

Introduction to Graphic Communications

Grades 9 - 12 * Semester Course * Semester 1 - 67085; Semester 2 - 67086 * 1/2 Credit

This class is a mix of graphic design with entry level experiences into production processes. What does that mean? After this course, you know how a designed idea or artwork becomes a printed product. You will learn this answer and also be able to take an idea and produce it as a printed piece in this class. We only use "real world" software and industrial equipment. Adobe software is the creative industry standard. For this course, we will focus on Adobe Illustrator, and InDesign. You will have hands on experiences in lithography, screen printing and digital processes. Projects that you produce will include a memo pad, greeting card, children's book and T-shirt. You will be exposed to the third largest manufacturing industry in the United States through units of instruction which include: Job planning and layout, Adobe Illustrator and InDesign, graphic design, image production, lithographic press operation, screen printing and finishing operations.

Satisfies the VPAA Credit

Graphic Design

Grades 10 - 12 * Year Course * Semester 1 - 67087; Semester 2 - 67088 * 1 Credit

This course is a condensed version of the two hour block and will have a main focus on graphic design and digital processes. It will overlap some of the topics covered in the two hour course. The projects will be smaller in nature to reflect the time constraints of a single hour course. You will design and produce products such as flyers, posters, calendars, and various customer's projects. Students will learn about the vast opportunities in the graphic communications industry. They will design and create projects using Adobe software such as InDesign, Photoshop, and Illustrator. Students will have limited experiences on some of the shop equipment such as the screen press and lithographic press. It is possible to still take the two hour block after this course. This course is helpful if you are considering one of the following career pathways: art school, advertising, graphic design or print management.

Satisfies the VPAA Credit

Graphic Communications I and II

Grades 10 - 12 * Year Course * Semester 1 - 67285; Semester 2 - 67286

2 Hour Block * 2 Credits

Every day we are surrounded by printed and designed images from brochures, logos, signs, forms, comic strips, apps, business cards, vehicle wraps, banners, stickers, and posters. The Graphic Communications program prepares students to be part of the printing, publishing and design industries. This class covers the processes and industries that create, develop and design. Software covered includes Adobe PhotoShop, Illustrator, and InDesign. Topics covered include: product planning and layout, graphic design, image reproduction, bindery, finishing operations, screen printing; ink, paper, lithographic press operations and career employability skills. You will design and produce products such as banners, posters, stickers, magazines, greeting cards, and T-shirts for both personal and various customers. This course is helpful if you are considering one of the following career pathways: art school, advertising, graphic design, or print management. Our classroom is fully equipped with large format presses, screen printing equipment, and a digital press. For more information and to see sample projects, check out the classroom Instagram page at Brighton_graphics.

Satisfies the 4th Year Math Credit and or the VPAA Credit

Advanced Graphics and Signage

Grades 11 - 12 * Semester Course * Semester 1 - 67083; Semester 2 - 67084 * 1/2 Credit

The Advanced Graphics and Signage course will focus on the signage side of the print industry. Students will be designing, producing, and installing a variety of signs across the district for a real world experience. Students will be applying printed vinyl as well as building three dimensional signs using the Apex CNC router. Additionally, students will assist in the design and production of district required paper products.

Satisfies the VPAA Credit

World Language Department

Course number	Course name	Semester/Year	Grade*	Prerequisite*	Career pathway
65070	French I	Year	9 – 12	Basic English Skills	Business Technology; Engineering Technology; Human Services
65271/65272	French II	Year	9 – 12	French I	
65471/65472	French III	Year	9 – 12	French II	
65671/65672	French IV	Year	10 – 12	French III	
65771/65772	French V	Year	11 - 12	French IV	
65030	Spanish I	Year	9 – 12	Basic English Skills	Business Technology; Engineering Technology; Human Services
65231/65232	Spanish II	Year	9 – 12	Spanish I	
65431/65432	Spanish III	Year	9 – 12	Spanish II	
65631/65632	Spanish IV	Year	10 - 12	Spanish III	
65731/65732	Spanish V	Year	11 - 12	Spanish IV	
65433/6544	AP Spanish	Year	11-12	Spanish V	
65040	American Sign Language I	Year	9 - 12	none	Human Services
65240	American Sign Language II	Year	9 - 12	ASL I	Human Services
65490	American Sign Language III	Year	9 - 12	ASL II	Human Services
65480	American Sign Language IV	Year	10 - 12	ASL III	Human Services

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

World Language

Course Descriptions

French I, Spanish I

Grades 9 – 12 • Year Course • French – 65070; Spanish – 65030 • 1 Credit

These initial-level courses are designed to teach basic grammar, vocabulary, pronunciation, and written style required in the respective language. Related activities will acquaint students with the culture and customs of the language's national origin. Good attendance and participation are essential if one is to succeed in language courses. Basic computer skills needed to navigate online textbook and accompanying activities.

French II, Spanish II

Grades 9 – 12 • Year Course • French • Semester 1 - 65271; Semester 2 - 65272 Spanish * Semester 1 - 65231; Semester 2 - 65232 • 1 Credit

These courses are designed to increase the student's conversational, reading, writing, and vocabulary abilities. There will be an increased emphasis on speaking and a continuation of related activities for the study of the culture and customs of the language's national origin. Good attendance and participation are important. Basic computer skills needed to navigate online textbook and accompanying activities.

French III, Spanish III

Grades 9 – 12, Year Course • French • Semester 1 - 65471; Semester 2 - 65472 Spanish * Semester 1 - 65431; Semester 2 - 65432 • 1 Credit

These courses are designed to further increase the student's conversational, reading, writing, and vocabulary abilities. Portions of works by native authors will be read in their respective languages, analyzed, and discussed. Further study of the culture and customs of the language's national origin with a more concentrated usage of the target language will be emphasized. Good attendance and participation are essential. Basic computer skills needed to navigate online textbook and accompanying activities.

French IV, Spanish IV

Grades 10 – 12, Year Course • French • Semester 1 - 65671; Semester 2 - 65672; Spanish • Semester 1 - 65631; Semester 2 - 65632 • 1 Credit

Prerequisite: Student has mastered the standards of the third year of study of the target language. Student can respond appropriately to written and oral prompts, correctly using grammar and vocabulary taught in third year. C average and approval and/or recommendation of one's current teacher is advised.

This course will stress the ability to read, speak, and write the language at a more advanced level. Important authors, historical events, current events, and modern topics will be studied as an avenue of approach to the language. Good attendance and participation are essential. Basic computer skills needed to navigate online textbook and accompanying activities.

French V

Grade 11-12 or department approval • Year Course • Semester 1 - 65771; Semester 2 - 65772 • 1 Credit

Prerequisite: Successful completion of French IV or the course may be taken concurrently with French IV with permission of the teacher.

In this course students will read, discuss and write about a variety of contemporary topics from French/francophone magazine and newspaper articles. Emphasis will be placed on an understanding of current societal issues in the francophone world. Review and expansion of grammatical structures and vocabulary will assist the student in these efforts. Students will listen to native speakers online and make frequent use of the French web.

Spanish V

Grade 11-12 or department approval • Year Course • Semester 1 - 65731 Semester 2 - 65732 • 1 Credit

Prerequisite: Successful completion of Spanish IV.

In this course students will read, discuss, listen to, and write about a variety of topics in the target language. Review and expansion of grammatical structures and vocabulary will assist the students in these efforts. Important authors, historical events, current events, and modern topics will be studied in depth. Good attendance and daily participation are essential. Basic computer skills needed to navigate online textbook and accompanying activities.

Advanced Placement Spanish

Grades 11-12 or department approval - 1 credit Location: Course Codes: 65433/65434 Prerequisites: Successful completion of Spanish 5

AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. The course is conducted in Spanish.

This course prepares the student for the college bound Advanced Placement Examination, paid for at student expense.

American Sign Language I

Grades 9 - 12, Year Course • 65040 • 1 Credit

This initial-level course is designed to teach basic grammar, vocabulary, cultural, and conversation standards with respect to American Sign Language and its community of users. Both expressive and receptive skills focus on the exchange of personal information, American Sign Language in a school environment, relationships, and effective conversation in the target language. Good attendance and participation are essential.

American Sign Language II

Grades 9 - 12, Year Course • 65240 • 1 Credit

Prerequisite: Student has mastered the standards of the first year of study of the target language.

This course is designed as a continuation of American Sign Language I and the study of Deaf culture, the Deaf community and Deaf history. Students will further their receptive and expressive vocabulary, ASL discourse skills, and knowledge of American Deaf culture and history. Students will focus on the exchange of information in the target language with regard to travel, socialization within the Deaf community, and ASL storytelling. Good attendance and participation are essential.

American Sign Language III

Grades 9 - 12, Year Course • 65490 • 1 Credit

Prerequisite: Student has mastered the standards of the second year of study of the target language.

Student can respond appropriately in conversation using correct grammar, vocabulary and culturally appropriate conventions. This course is designed to increase the student's conversational and vocabulary competence. Good attendance and participation are essential.

American Sign Language IV

Grades 10 - 12, Year Course • 65480 • 1 Credit

Prerequisite: Student has mastered the standards of the third year of study of the target language.

Student can respond appropriately in conversation using correct grammar, vocabulary and culturally appropriate conventions. This course additionally covers narratives and short stories, advanced fingerspelling, history, technology, and expansion of ASL I, II, & III topics. Good attendance and participation are essential.

Peer For Peer

Peer For Peer

Grade 12 • Semester Course * Semester 1 – 60031; Semester 2 – 60032 (½ Credit)

Prerequisite: Must complete an application and receive approval of program staff.

Students are trained and function as peer mediators helping students resolve conflicts with one another. This class includes assignments and activities which promote interpersonal communication, life skill development, and personal growth. Responsibilities include, but are not limited to, maintaining mediation standards of behavior and confidentiality, participation in student assemblies and school-wide campaigns, promoting a positive school culture, assisting individual students as needed and office assistance work in one or more of the offices.

Student Leadership

Student Leadership

Grades 11 – 12 • Semester Course • Semester – 60041; Semester 2 – 60042 • ½ Credit

This two semester course is designed and recommended for class and student council officers, club officers, and other interested students. Student selection will be made by the instructor, and will be based on completion of an application. It is strongly recommended that the students plan to take the course for both semesters. Enrollment in first semester is acceptable if taking one semester is the student's only option.

Satisfies the VPAA Credit

Advisory

Advisory

Grades 9– 12 • Year Course • 60000

This is a course that runs once a week, in a seventh period, for all Brighton High School students. Advisory classes are used to support students in their academics, social emotional needs, as well as utilizing this time for specific presentations and opportunities for grade levels and groups. While students are rostered to specific teachers, when possible and with teacher approval, students may travel to another teacher they are currently rostered with for academic support during their advisory time. This class is for all grade levels, 9-12, and is a full year long course.

Independent Study

Independent Study

Grades 11 – 12 • Semester Course • ½ Credit

Independent Study is a learning experience available to students who wish to extend their education beyond the standard course structure of classroom activity as described in the course descriptions of the BHS Curriculum Guide. It is an opportunity for a student to work independently under the guidance of an instructional teacher and is not intended as a substitute for an existing course. When the student working with a teacher agrees to the Independent Study, the student will then initiate the Independent Study Application and complete any curriculum outline. Course registration and student notification for an approved Independent Study course is handled through administrative approval. (Available in every department pending teacher approval/agreement)

Skills Classes

Mastery Skills

Grades 10-12 • Semester Course • Semester 1 60073; Semester 2 60074 (1/2 Credit)

This one or two semester class is designed to support students' academic success in core classes. This course will address study, time management and self-advocacy skills, organizational techniques, and reading, writing and math support. The class is an elective credit and will count toward graduation. Administrator approval required.

OnLine Learning

MVS Holds (Online Learning for New Credit)

Grades 9-12 • Semester Course • Semester 1 08887; Semester 2 08888 (1/2 Credit)

Students may enroll in one to six online courses during a semester. Students taking online courses must adhere to the Online Policy Agreement and classroom policies. A list of possible online courses is available at Michigan Virtual or the statewide catalog. Contact your counselor or administrator for information on how to enroll in these courses. Enrollment for online classes closes on the second Wednesday after the semester begins.

OnLine Learning Lab (Credit Recovery)

Grades 9-12 • Semester Course • Semester 1 60027; Semester 2 60028 (1/2 Credit)

This course is designed for students that need to recover credit. In addition to completing online course work to recover credit, students will work on study skills and time management. Students will set weekly goals and complete weekly reflection journals as well as an entrance essay at the start of the semester and a final reflection at the end of the semester. Students must pass both the online learning lab and their online recovery course to receive the 0.5 elective credit for the Online Learning Lab. Students can only be scheduled in Online Learning Lab by their counselor or administrator.

EdOptions Academy

Grades 9-12 •

EdOptions Academy classes are available only to students that have been grandfathered into the partnership program with Total Package Hockey. Students currently enrolled in the program can select courses from [this catalog](#). This program will end in June 2024.

Navy JROTC

Grades 9 - 12 • Year long Course

Semester 1 - 60043; Semester 2 - 60044 • 1 credit

The Navy JROTC (NJROTC) program consists of a four-course sequence. The program emphasizes citizenship and leadership development, as well as maritime heritage, the significance of sea power, and naval topics, such as the fundamentals of naval operations, seamanship, navigation, and meteorology. Over the course of the NJROTC program, time may be spent further investigating the areas of electronics, oceanography, cyber security, and space exploration as it relates to the postsecondary opportunities available to students should they choose to pursue these fields of study. Additional effort is made to help students build the skills and behaviors necessary to be successful after high school, regardless of if their career path includes a military experience, college/university, or going directly into the workforce. This development includes a commitment to service, and a sense of personal responsibility. Students will have the opportunity to focus on career and college readiness through further development of their communication skills, further developing their self-esteem and motivation levels, and working collaboratively as a member of a team, while also improving their physical fitness. Classroom instruction may be augmented throughout the year by community service activities, drill competition, field meets, visits to naval activities, marksmanship training, and other military training. NJROTC is not a military recruitment program and there is no military obligation. (Satisfies VPAA)

CTE Consortium

Brighton Courses

Automotive Technology II, see page 35

Early Childhood Education, see page 17

Graphic Communications, see page 37

Marketing II, see page page 11

Teacher Cadet, see page 17

Engineering Applications Block, see page 36

Health Occupations

Grades 11 – 12 • One Year Course * Two-Hour Block

Semester 1 – 67933; Semester 2 – 67934 • 2 Credits

Prerequisite: Algebra and Biology, passing both with a 2.0 GPA or higher. Students are required to drive to their clinical observations during 2nd semester.

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Health Occupations is a 2 hour- block class designed for students interested in pursuing a career in the medical field. This course will give you an introduction to various health care professions and expose you to a variety of medical skills, medical vocabulary, and direct patient care opportunities! Students enrolled in this program will earn a CPR certification, First Aid certification, Bloodborne Pathogen training, HIPAA training, and many other industry skills that will lead you to success as a future healthcare professional. Instructional techniques include: class discussions, projects, hands-on assessments, and opportunities to attend 'clinical placements' within the Livingston County area during the second semester of the class. Following the completion of Health Occupations, students are encouraged to continue their academic pathway by taking EMT, CNA, or participating in the Early College Program at LCC with a pathway in either nursing or as a medical assistant.

Satisfies VPAA Credit

Pre-Med Science

Grades 11 – 12 • One Year Course 679330• 1 Credit

Prerequisite: Student must meet ONE of the following: have taken Health Occupations during the previous school year; earned a 'B' or better in Chemistry; or specific instructor or administrator approval

*Students in any grade can access all courses. The grades listed are recommended age ranges, so students below this range should consult with their counselor prior to enrollment.

Pre-Med Science will be a year long course offered to Juniors and Seniors at Brighton. Students taking this class are those who express an interest in pursuing a professional career in the medical field following high school. Within this course, students will first review basic medical concepts, terminology, anatomy and physiology and human-bio knowledge, and then will be challenged with complex medical scenarios, diagnoses, collaborative care communication, and competencies. This course is designed for those students who are looking to advance their anatomy, biology, and basic health care knowledge, while transitioning that foundation to the world of medicine in a hands-on, fast-paced simulated clinical setting.

Satisfies VPAA Credit

Out of District Classes

Out of District CTE Consortium

To supplement applied technology offerings at Brighton High School, we participate with other Livingston County high schools in a CTE Consortium. Registration for and participation in any applied technology consortium class is open to all high school students in eleventh or twelfth grade. Students must provide their own transportation.

Health Occupations: Certified Nursing Assistant (CNA)

Grade 12 * Semester Course * Two Hour Block *

Semester 2 - 67364CTE * Location Parker MS, Howell * 1 Credit

Prerequisite: Health Occupations I, teacher recommendation, application and interview.

This course provides the student with the knowledge and clinical experience to earn a Certified Nursing Assistant state certificate. Students must provide their own transportation to clinical rotations and some Saturday classes are required. This class will only occur in Semester 2.

Satisfies VPAA

Cosmetology

Grades 11-12 * Semester 1 - 67921CTE; Semester 2 - 67922CTE * Location - Brighton Institute of Cosmetology, 10543 Citation Drive, Brighton, MI 48116 * Course Length - One or two year (depending on the year starting), meets daily, M-F, from 12:30 - 4:30 PM * 2 Credits

A full two-year (plus one summer) program which instructs students to perform a variety of beauty treatment operations that include the care of hair, complexion, and hands. Shampoos, rinses, scale treatments, styling, tinting, bleaching, waving, facials, and manicuring are among the skills mastered. If all course requirements are met, the student will complete the State required 1,500 hours of instruction and high school graduation to be eligible to take the Cosmetology State Board Examination. Students must pass this State Exam to be licensed and eligible for employment.

*NOTE: Students will be responsible for purchasing their supply kit, as well as paying tuition for the program. A mandatory student/parent meeting will be held prior to the program starting to discuss program costs and requirements.

Satisfies: VPAA, Articulated college credit for this course MAY be available, please see instructor.

Culinary Arts and Hospitality

Grades 11-12 * Semester 1 - 67925CTE; Semester 2 - 67926CTE * 2 credits

Location: Howell High School, 1200 W. Grand River, Howell, MI 48843

Course Length: Two year, two class period block

Prerequisite: Successful completion of Culinary Arts and Hospitality I prior to Culinary Arts and Hospitality II

Satisfies: 4th Math and VPAA

Articulated college credit for this course MAY be available, please see instructor.

Culinary Arts & Hospitality I

The Culinary Arts and Hospitality program at Howell High School is a class available for any juniors or seniors interested in food, cooking, baking, pastries, restaurant operations, management skills, and/or the food industry in general. Students will learn about the exciting and addicting environment of the restaurant business in the student-run cafe, The Highlander Restaurant.

Out of District Continued...

Culinary Arts & Hospitality II

Culinary Arts and Hospitality II is the second installment of the culinary program at Howell High School. In this class, students will have increased responsibilities and more advanced and exciting opportunities to excel in the food industry. Some of the many opportunities available are management roles, not only within the restaurant but also event management and creative design duties; menu planning, creating recipes, and ServSafe and ProStart certifications (which are nationally recognized accreditation), along with internship opportunities in the local restaurant industry. This class will help provide students with a smooth transition into their college culinary experience, and the professional industry as well.

Cyber Security & Computer Networking

Grades 11 – 12 • Year course/Two-hour Block • Semester 1 – 67621CTE; Semester 2 – 67622CTE • Location: Hartland High School • 2 Credits

Prerequisite: Algebra 1

The first semester of this course provides an introduction to the computer hardware and software skills as well as introductory networking skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The curriculum covers the fundamentals of PC technology and mobile technologies. Students will be able to describe the internal components of a computer, assemble and disassemble a computer system, install and maintain an operating system, and troubleshoot using system tools and diagnostic software. The second semester of this course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Students will be able to build simple LANs, and implement IP addressing schemes. Students will also learn about the architecture, components, and operations of routers and switches in a small network. This course will enhance technical, communication, and problem solving skills as they relate to the study of Information Security and Information Assurance. Hands-on labs and virtual learning tools will help students develop critical thinking and complex problem-solving skills. Articulated college credit for this course MAY be available, please see instructor.

Satisfies 4th Year Math Credit and/or VPAA Credit

Advanced Cyber Security & Computer Networking

Grade 12 * Year Course/Two hour Block * Semester 1 - 67953CTE; Semester 2 - 67954CTE * Location: Hartland High School * 2 Credits

Prerequisite: Cyber Security & Computer Networking (2 Hour Block)

Students will continue to configure and troubleshoot routers and switches for advanced functionality. Students will configure devices to support access control lists, network address translation and application protocols such as DHCP. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with advanced routing protocols in both IPv4 and IPv6 networks and will learn to resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network and virtual private network (VPN) operations in a complex network. Students will also learn and apply concepts related to WAN technologies and network services required by converged applications in a complex network. This Course also provides an introduction and overview of information security/assurance. This course will enhance technical, communication, problem solving and teaming skills, as they relate to the study of Information Security and Information Assurance, as well as cover a broad spectrum of pertinent IS/IA base information, including voice and data network connectivity, cryptography, intrusion detection systems, data firewalls, malicious software, information operations and warfare, and denial of service attacks, regulations, law and governance. Hands-on labs and virtual learning tools help students develop critical thinking and complex problem-solving skills. Cisco Packet Tracer simulation-based learning activities promote the exploration of network and networking security concepts and allow students to experiment with network behavior.

Satisfies the 4th year Math Credit and/or the VPAA Credit

Construction Trades I

Grades 11 – 12 • Course Length: Two year course/Two hour Block • Semester 1 – 67907CTE; Semester 2 – 67908CTE • Location: Parker Middle School, 400 Wright Rd. Howell 48843 • 2 Credits

Students will have the opportunity to work with licensed electricians, plumbers and HVAC contractors, as well as other industry professionals, to learn the basics of residential construction while exploring career opportunities in the construction trades. This class is designed to be 30% classroom learning with 70% hands-on work. All tools and equipment will be provided, including all safety PPE. Students will be required to have the proper footwear and clothing. After completing this course, graduates will have job opportunities from local contractors, businesses, unions, trade schools, and college programs in construction degrees.

Topics covered include excavation/site prep, foundations/concrete, rough framing, mechanicals, exterior & interior finishes, blueprint reading, permits, building code, Osha 10 Certification & Career Connections or Home Builders Association of Michigan Certification.

Satisfies the 4th Year Math Credit and/or the VPAA Credit. Articulated college credit for this course MAY be available, please see instructor.

Construction Trades II

Grades 12 • Course Length: Two year course/Two hour Block • Semester 1 – 67595CTE; Semester 2 – 67596CTE • Location: Building site (varies) • 2 Credits

Prerequisite: Construction Trades I

This course is designed for students who are seriously considering a career in the construction trades. Students will apply the skills they are learning in Construction I to build an upscale home in the Howell community to be sold on the open market. All tools and equipment will be provided, including all safety PPE. Students will be required to have the proper footwear and clothing to work in all weather conditions.

Students will work with multiple licensed buildings, electricians, plumbers, HVAC contractors and other professionals from the trades. All participants will get a wide range of experience with all aspects of the build. After completing this course, graduates will have job opportunities from local contractors, businesses, unions, and trade schools.

Satisfies the 4th Year Math Credit and/or the VPAA Credit. Articulated college credit for this course MAY be available, please see instructor.

Robotics & Automation Technology I

Grades 11 – 12 • Semester 1 – 67915CTE; Semester 2 – 67916CTE • Location: Pinckney H.S. • 2 Credits

Cost to Student: Pay for Materials - Glasses & Notebook

The Robotics and Automation Technology program prepares students interested in Engineering and Technology focused careers to use computer software and hardware based processes to solve problems common in engineering, manufacturing and business.

Course Content Goals: As a result of their learning, students will be able to:

- Program different types of robots
- Use computers to design and build engineering solutions
- Learn basic machine tool operation
- Students will work in teams to design, construct, and operate an automated robotic work cell

Course Activities: This program provides a great hands-on experience for students interested in computer programming, electronics, computer aided manufacturing (CAM), material science, and machine tool operations. Articulated college credit may be available. Satisfies 4th Year Math Credit and/or VPAA Credit. This course is eligible for college credit if taken as a two hour block class.

Out of District continued...

Robotics & Automation Technology II

Grades 11 - 12 * Semester 1 - 67917CTE; Semester 2 - 67918CTE *

Location: Pinckney H.S. * 2 Credits

Cost to Student: Pay for Materials - Glasses & Notebook

Prerequisite: Engineering and Robotics I

The Robotics and Automation Technology program prepares students interested in Engineering and Technology focused careers to use computer software and hardware based processes to solve problems common in engineering, manufacturing and business

Course Content Goals: As a result of their learning, students will be able to:

- Use programmed controllers
- Use more advanced computer techniques to design engineering solutions
- Learn 3D printing and CNC machine tool operation
- Students will work in teams to design, construct, and operate an automated robotic work cell

Course Activities: This program provides a great hands-on experience for students interested in computer programming, electronics, computer aided manufacturing (CAM), material science, and machine tool operations. Articulated college credit may be available. This course qualifies for math related credit and Visual, Performing, or Applied Arts credit

This course satisfies the 4th Year Math Credit and/or the VPAA credit. This course is eligible for college credit if taken as a two hour block class

Energy Technology

Grades 11 - 12 • Year long Course/Two-hour Block

Semester 1 - 67373CTE; Semester 2 - 67374CTE • Location Hartland H.S. • 2 Credits

The year-long, two-hour career-oriented class is designed for students to learn and apply theoretical and technical knowledge of energy and electrical systems. This program was developed with industry to ensure students gain the necessary skills to earn initial industry certification, leading to a career as a skilled worker in the energy industry. This Energy class is the first step in becoming an electrical overhead lineman, Gas technician, Alternative Energy technician or other related position in the energy industry

National Certification in "Energy Industry Fundamentals", OSHA Ten Safety and Red Cross CPR Certification can be obtained from class.

Satisfies 4th Year Math Credit and/or VPAA Credit, Online Learning Experience

WELDING

Advanced Welding

Grades 11 - 12 * Semester 1 - 67555; Semester 2 - 67556 * 2 credits

Location: Pinckney Community High School, 10255 Dexter-Pinckney Road, Pinckney, MI 48169

Course Length: One year, two class period block

Prerequisite: Intro to Welding (waived for out-of-district students)

Satisfies: 4th Math, VPAA, 2nd World Language

This course of study is planned to prepare the student to work in the welding industry, a high wage, highly skilled job in Michigan

Course Content Goals:

- Describe welding and machining safety precautions
- Describe the welding and machining phase of manufacturing
- Set-up oxyacetylene equipment
- Demonstrate the beginning skill level of an oxyacetylene welder
- Set-up shielded metal arc welding equipment
- Describe the key variables that affect weld quality
- Demonstrate the beginning skill level of a shielded metal arc welder
- Demonstrate the beginning skill level of a plasma arc cutting operator
- Visually recognize the quality and strength of common welds
- Describe weld distortion and how to control it
- Identify the commonly used metals and know their physical properties and weldability
- Set-up gas metal arc welding equipment
- Demonstrate knowledge of shielding gasses
- Demonstrate the beginning skill level of a gas metal arc welder

PRIVATE PILOT GROUND SCHOOL I & II

Location: Livingston County Spencer J. Hardy Airport, Crosswinds Aviation Flight Center, 3808 W. Grand River Ave., Howell, MI

Grades 11 - 12 * Semester 1 - 67957CTE; Semester 2 - 67958CTE * 2 credits

Website: www.crosswindsaviation.com/high-school-program/

Course Length: One year with an optional 2nd year (teacher permission required), two class periods in length

Prerequisite: Pre-arranged FREE EAA Young Eagle flight with certified pilot or \$279.00 plus membership fee for materials.

Satisfies: VPAA

Articulated college credit for this course MAY be available, please see instructor

The one-year course offers a structured FAA curriculum to learn all the knowledge required to pass the FAA Private Pilot Knowledge Exam. Passing this exam is a requirement to obtain an FAA Private Pilot License, which is the first step to becoming a career pilot. The optional 2nd year student will earn a Remote Pilot License to be able to fly drones professionally, complete projects to Commercial and Flight Instructor FAA level licensing, and be mentors to first year students. The knowledge obtained in this course is also applicable to any career path in aviation, such as: aircraft maintenance, airport/aviation management, aeronautical/aerospace engineering, air traffic control, avionics/computer instrumentation, dispatch, etc.

Successful completion of this course can earn free college credits through articulation and partnership agreements. Other post-secondary colleges may grant free or purchased credit hours with the FAA Private Pilot Knowledge Exam Certificate and/or an FAA Private Pilot License.

Note: This is a college level course.

Out of District Continued...

Emergency Medical Training (EMT)

Grade 12 * One Year Course * Two-hour Block *

Semester 1 - 67961CTE; Semester 2 - 67962CTE * Location: Howell * 2 Credits

Location of class is: Livingston EMS facility: 1911 Tooley Rd. in Howell, Michigan

This year-long program prepares students for Emergency Medical Technician certification through a rigorous hands-on approach to first aid and lifesaving techniques. The course delivery includes lectures, discussions, group work, and extensive practice with simulators and colleagues. Successful students will qualify for CPR certification, as well as the National Registry of Emergency Medical Technician examination. Attendance at sessions outside of normal school hours will be required in order to meet training objectives.

This course is available for seniors who:

- 1 Are able to show proof of immunization status
- 2 Are willing to receive industry specific immunizations
- 3 Are able to pass drug tests and background checks necessary for community based practice experiences

AND meet one of the following criteria

- Successful completion of Health Occupations
- Successful completion of Firefighter I & II program
- Active participation in a Junior Firefighter or Explorer program
- Successful completion of a high school Anatomy and Physiology course
- Or obtain administrator's approval with recommendation by a teacher or counselor

College credit for this course may be available. Satisfies the VPAA Credit.

Manufacturing

Grades 11 – 12 • Course Length: One or Two-Year Course/Two-hour Block

Semester 1 – 67937CTE; Semester 2 – 67938CTE • Location: Howell HS • 2 Credits

This course offers an introduction to state of the art manufacturing techniques by providing an integrated approach to the design, production, and testing of objects and materials. Students begin the course by mastering the basics of a machine tool process, then move to more advanced projects involving computer numerical control (CNC) machining, computer aided drafting (CAD) and computer aided manufacturing (CAM). The welding portion of the course introduces students to shielding metal arc welding, gas metal arc welding, gas tungsten arc welding, cutting, and brazing. Throughout the course an emphasis on product production is maintained, and students develop skills useful in a modern manufacturing environment. Articulated college credit for this course MAY be available, please see instructor.

Satisfies 4th Year Math Credit, VPAA

Agricultural Science: Zoology / Botany

Grades 11 - 12 • Year long Course/Two-hour Block

Semester 1 - 67967CTE; Semester 2 - 67968CTE • Location Fowlerville H.S. • 2 Credits

This year-long, two-hour block course provides students hands-on experiential learning opportunities in plant and animal science, and is appropriate for students interested in careers in the fields of agriculture, food, and natural resources.

Botany introduces the basic principles of plant structure, function, and reproduction with projects focused on human uses of plants for food, agriculture, landscape, medicine, and ecology. Hands-on projects include greenhouse and indoor gardening, vegetable production, hydroponics, forestry, and field experiences.

Zoology introduces the principles of animal anatomy and physiology with a focus on companion animals and livestock production. Animal care, handling, and veterinary techniques are practiced while working in hands-on projects including beekeeping, aquaculture production, raising broiler chickens, veterinary skills, and field experiences.

Students in this course will improve their leadership, personal growth, and practical skills through participation in the Fowlerville FFA chapter. Articulated college credit for this course MAY be available, please see instructor.

Satisfies 4th Year Math Credit, VPAA

Agricultural Science II

Grades 12 • Year long Course/Two-hour Block

Semester 1 - 67983CTE; Semester 2 - 67984CTE • Location Fowlerville H.S. • 2 Credits

Prerequisite: Successful completion of Agricultural Science/Zoology/Botany prior to Agricultural Science II

This year-long two-hour block is for 12th grade students who have successfully completed the Agricultural Science: Zoology & Botany curriculum and wish to pursue careers in the Ag, Food, and Natural Resources industries. Ag II students will earn industry certifications by taking online coursework, participate in two, 6-9 week work-based learning internships, and be heavily involved in the Fowlerville FFA chapter.

Admission to Ag II is by application completed at the end of the students' junior year. Articulated college credit for this course MAY be available, please see instructor.

Satisfies 4th Year Math Credit, VPAA

FIREFIGHTER I & II

Grades 11 - 12 * Semester 1 - 67965CTE; Semester 2 - 67966CTE * 2 credits

Year 2 - * Semester 1 - 67913; Semester 2 - 67914*

Location: Firestation #34, 2755 Dorr Rd, Brighton, MI 48116

Course Length: One year, two class period block

Prerequisite: Application and interview process.

Satisfies: VPAA

Articulated college credit for this course MAY be available, please see instructor.

This elective will provide students an opportunity to receive State of Michigan Firefighter I & II training beginning as early as 16 years of age, heading to their state certification. Firefighter I & II is a one school-year course that blends a combination of classroom knowledge and firefighter practical skills necessary for successful completion of the State certification. Cadets will learn all aspects of firefighter training in an academy setting, complete with fire trucks and firefighting equipment in a working fire station.

Interested students must meet:

Academic criteria – must be on-track for graduation

An online application must be filled out to be considered.

90% minimum attendance and 70% average classroom scores, for State of Michigan Firefighter Certification testing which includes both written and practical skills. Commitment to one 8-hour Saturday training session each month throughout the school year.

Phlebotomy

Grade 12 • Course Length: One Semester/Two-hour Block; Semester 2 – 67936CTE • 1 Credit

Location of class is: Livingston EMS facility: 1911 Tooley Rd. in Howell, Michigan

A certificate curriculum is designed to prepare a person to function as a phlebotomy technician. It will provide the knowledge, skills, and externship experience that is necessary to safely and skillfully obtain a blood specimen from a patient. Students will complete multiple blood draws on training arms, as well as live patients, including each other. Eligible students can obtain their phlebotomy certification by passing the state test and fulfilling 30 blood draws. A phlebotomist may work in a variety of settings such as hospitals, outpatient labs, physicians' offices, or clinics. Phlebotomy is a rewarding and in-demand career. Enroll in this phlebotomy course today and take your first step towards a fulfilling career in healthcare!"

Successful completion of either the health occupations class or the pre-med science class is a pre-requisite or co-requisite for this course.

Students must be a senior and will have some industry rotations and need their own transportation.

Out of District Continued...

Air Force JROTC: Aerospace Science and Leadership Education

Grades 11 - 12 • Year long Course

Semester 1 - 60043; Semester 2 - 60044 • Location Howell H.S. • 1 credit

AFJROTC is a customized course that offers rotating topics each academic year. The Aerospace Science portion of AFJROTC, *Exploring Space: The High Frontier* will introduce students to the latest information available in space science and space exploration. The course begins with the study of the space environment, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. Leadership Education 400, *Principals of Management* provides exposure to the fundamentals of management. The course contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. Topics include: Introduction to Management, Planning, Organizing and Leading. AFJROTC is not a military recruitment program and has no military obligation related to this class.

Satisfies VPAA

JROTC: Management of the Corps

Grades 12 • Year long Course

Semester 1 - 60045; Semester 2 - 60046 • Location Howell H.S. • 1 credit

Prerequisite: Completed 3 years of Air Force Junior JROTC & approval of the Senior Aerospace Science Instructor

This senior level curriculum consists of management of the Cadet Corps. The cadets in the course run the entire AFJROTC program during the academic year. The hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. The cadets utilize their communication, decision-making, personal interaction, managerial, and organizational skills. Leadership Education 200 stresses communication skills and cadet corps activities. Instruction is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Wellness training consists of exercises that will increase your flexibility, strength and overall physical condition. AFJROTC is not a military recruitment program and has no military obligation related to this class.

Satisfies VPAA

Livingston County Early College Programs (LCEC)

The Early College program gives students the opportunity to jumpstart their educational and career pathways while still in high school. By the end of the program students will be walking away with a Certificate, Associate degree, MEMCA Certification, and/or college credits. By participating students agree to an additional year of education to the traditional four-year high school track. In return students receive free college tuition and books that are paid for by your students' local school district; Brighton Area Schools, Fowlerville Community Schools, Hartland Consolidated Schools, Howell Public Schools, and Pinckney Community Schools. While in their senior year of high school (grade 12), students will either begin with a full college course schedule or be enrolled in several college courses, dependent upon chosen program track. They will learn how to adjust to college deadlines and calendars, advocate for themselves, and transition into a college student. In year 13, their schedule becomes full with college courses, an internship, and career opportunities. Throughout the duration of the program students will be supported by our Early College coordinator.

Program tracks that are currently offered: Automotive, Business Management, Career Ladder Nursing, College Foundation, Cyber Security, Mechatronics, Medical Assisting, and Welding and a Foundation track offering 30 general education credits.

For more information, visit the LCEC website (livingstonesa.org), which offers a more comprehensive look into the program tracks.

Dual Enrollment

University of Michigan, Flint - Dual Enrollment Classes

Grade 12 * Year Course * Hartland High School *

Business Economics * 3 Hour Block * Semester 1 - 67971; Semester 2 - 67972

General Studies * 3 Hour Block * Semester 1 - 67975; Semester 2 - 67976

Pre-Engineering Program * 3 Hour Block * Semester 1 - 67351; Semester 2 - 67352

Medical Sciences * 3 Hour Block * Semester 1 - 67355; Semester 2 - 67356

Livingston County is collaborating with UM-Flint to offer high school students expanded dual enrollment opportunities. These clusters of courses are designed to offer students 12 college credits that can possibly transfer to their college of choice and to provide rigorous college courses in areas of a student's interest. Most of the cost of these college courses is covered by the local school district.

Students must travel to Hartland School District for their session of courses.

Monday through Friday all year long.

Students must:

- Be in good academic and attendance standing, with overall GPA of 3.0+
- Provide transportation
- Commit to the cluster for the entire year
- Fill out the appropriate application for U of M Flint and their respective high school
- Some programs have additional requirements. Please see your counselor.

BHS is only guaranteed limited seats in these programs. Therefore, the students allowed to attend these programs may be selected based on their academic transcript or college or career path. Juniors may apply but will receive consideration only if open seats remain after the selection process.

The clusters of Dual Enrollment Classes are listed below:

Business Economics Program (12 Credits)

Fall BUS 110, Business Concepts & Careers, 3 Credits
ECN 201, Principles of Economics - Macroeconomics, 3 Credits

Winter BUS 115, Introduction to Business Applications, 3 Credits
ECN 202, Principles of Economics - Microeconomics, 3 Credits

General Studies (12 Credits)

Fall POL 120, American National Government & Politics, 3 Credits
COM 204, Argumentation & Debate, 3 Credits

Winter PHL 101, Intro to Philosophy, 3 Credits
HIS 114, 20th Century World History, 3 Credits

Pre-Engineering Program (13 Credits)

Fall CSC 174, Programming & Problem Solving for Engineering, 3 Credits
EGR 102, Introduction to Engineering, 3 Credits

Winter EGR 165, Computer Aided Design, 3 Credits
CSC 175, Problem Solving & Programming, 4 Credits

Medical Sciences Program (13 Credits)

Fall BIO 113, Principles of Biology, 4 Credits
HCR 206, Health Sciences Applications, 2 Credits

Winter BIO 328*, Genetics, 4 Credits
* Prerequisite: C- or better in BIO 113
PHL 202, Intro to Logic, 3 Credits

Course Index Guide to Curriculum: Courses offered are alphabetized by department

	<i>Year Long Course</i>	<i>First Semester</i>	<i>Second Semester</i>		<i>Year Long Course</i>	<i>First Semester</i>	<i>Second Semester</i>
Art Department				English Department, continued			
Art Works		68005	68006	Mythology/Science Fiction		61265	61266
Drawing and Painting I		68035	68036	Applied Journalism & Modern Media	61270		
Drawing and Painting Studio		68265	68266	Speech		61275	61276
Metal Arts I		68015	68016	World Literature: A Cultural Experience		61691	61692
Metal Arts Studio		68245	68246	Yearbook		61291	61292
Pottery I		68025	68026	Video Production (Media 1 & 2)	61370		
Pottery Studio		68255	68256	Communication Design for Professional Settings	61477		61478
Business Department				Technical Communications		61287	61288
Accounting		66261	66262	Family and Consumer Sciences Department			
*‡ Advanced Marketing		66235	66236	Bake Shop		69047	69048
Advanced Placement Computer Science A		66477	66478	Child Development – Infancy		69035	-----
Advanced Placement Computer Science Principles		66481	66482	Child Development – Preschool		-----	69038
Entertainment and Sports Marketing		66131	66132	Culinary Arts		69055	69056
Entrepreneurship		66033	66034	Education Careers I		69435	69436
Intro to Digital Technology		66077	66078	Education Careers II		69433	69434
Law for Life		66225	66226	Health Education		69265	69266
Marketing I		66031	66032	Housing and Interior Design		69411	69412
Programming and Game Development		66075	66076	** LINK Program		60023	60024
Social Media Marketing		66057	66058	Personal Finance		69665	69666
Web Design		66073	66074	Personal Power		69025	69026
** Work Based Learning CO-OP		67947	67948	Successful Relationships		69425	69426
English Department				** Teacher Cadet	67920		
Advanced Placement Literature & Comp	61700			Fashion Design & Merchandising		69413	69414
Advanced Placement Language & Comp	61800						
American Literature and Composition	61470						
Literature and Composition 11	61670						
Creative Writing		61457	61548				
Art & Composition of Arguments		61085	61086				
Drama		61277	61278				
Practical Academic Writing and Speaking		61455	61456				
Honors Literature and Composition 11	61680						
Honors Literature and Composition 9	61100						
Honors American Literature and Composition	61480						
Humanities – Music		61465	61466				
Literature and Composition 9	61050						
Performing Arts		61077	61078				

* Special permission or admission test required
 ** Permission Form Required

‡ A two-hour block

	Year	First Semester	Second Semester
Mathematics Department			
Advanced Placement Pre-Calculus		63707	63708
Advanced Placement Calculus AB		63705	63706
Advanced Placement Calculus BC		63701	63702
Advanced Placement Statistics		63711	63712
Algebra I - Common Core	63070		
Algebra II		63271	63272
Algebra II (Two Year Program)Year 1-	63280		
Year 2-	63290		
Functions, Statistics and Trigonometry		63461	63462
Geometry	63110		
Music Department			
Treble II		68111	68112
Advanced Placement Music Theory		68193	68194
Treble III		68135	68136
Freshmen Concert Band/Marching		68145	68146
Jazz Band		68165	68166
Symphony Band		68153	68154
Tenor Bass		68125	68126
Treble I		68123	68124
Concert Choir		68121	68122
Wind Symphony/Marching Band		68185	68186
Wind Ensemble/Marching Band		68191	68192
Orchestra I (Symphonic)	68210		
Orchestra II (Philharmonic)	68220		
Physical Education Department			
BFS Weight Training		69935	69936
Individual Sports		69923	69924
Nutrition & Fitness		69945	
Physical Education Assistant		69985	69986
Physical Education Readiness		69901	69902
Recreational Sports		69925	69926
Sports Management		69983	69984
Sports Tech		69947	69948
Team Sports		69921	69922
Aquatics Basics		69927	

	Year	First Semester	Second Semester
Science Department			
Advanced Placement Biology		64501	64502
Advanced Placement Chemistry		64521	64522
Advanced Placement Environmental Science	64561		64562
Advanced Placement Physics I		64541	64542
Advanced Placement Physics 2		64543	64544
Anatomy and Physiology		64171	64172
Astronomy		64457	64458
Biology		64070	
Botany		64441	64442
Chemistry		64271	64272
Physics		64471	64472
Honors Chemistry		64273	64274
Forensics		64443	64444
Social Studies Department			
Advanced Placement Comparative Gov&Politics	62743		62744
Advanced Placement European History		62711	62712
Advanced Placement Macroeconomics			62734
Advanced Placement Microeconomics		62731	
Advanced Placement Psychology		62721	62722
Advanced Placement U S Govt & Politics		62741	62742
Advanced Placement United States History		62701	62702
Advanced Placement World History		62053	62054
Civics		62451	62452
Close Up Government/Economics		62461	62462
Current Events		62465	62466
Economics		62453	62454
Sociology		62265	62266
Military History/Civilization and Conflict		62271	62272
Psychology		62255	62256
United States History and Geography		62250	
World History and Geography		62051	62052
Postwar America -		62457	62458
Skills Classes			
Mastery Skills		60073	60074

* Special permission or admission test required
 ** Permission Form Required

‡ A two-hour block

	Year Long Course	First Semester	Second Semester
Special Education Department			
Foundation English		60141	60142
Foundation Math		60341	60342
Foundations of Physical Education		69955	69956
Foundation Science		60441	60442
Foundation Social Studies		60211	60212
EdReady Math		63011	63012
Foundation of Art		68003	68004
Employability Skills		60051	60052
Auto Detailing		67175	67176
Basic Resource Room		09995	09996
Social Communication Skills	60980		
WRAP/Work Study		60703	60704

	Year Long Course	First Semester	Second Semester
Technology and Industry Department			
Architectural C A D D (Computer Aided Design)		67243	67244
Auto Maintenance		67025	67026
Advanced Automotive Technology		67227	67228
Automotive Technology I		67223	67224
Automotive Technology II (2 Hour Block)		67225	67226
Advanced Automotive Technology		67227	67228
Architectural C A D D (Computer Aided Design)		67243	67244
Engineering Design Technology 1		67045	67046
Engineering Design Technology 2		67241	67242
‡ Engineering Applications Semester		67111	67112
‡ Engineering Applications Block II	67120		
Engineering Robotics I		67063	67064
Engineering Robotics II		67067	67068
Engineering Robotics III		67011	67012
Introduction to Machining & Prototyping		67013	67014
Introduction to Graphic Communications		67085	67086
Graphic Design		67087	67088
‡ Graphic Communications		67285	67286
Advanced Graphics and Signage		67083	67084

	Year Long Course	First Semester	Second Semester
World Language Department			
American Sign Language (ASL) I	65040		
American Sign Language (ASL) II	65240		
American Sign Language (ASL) III	65490		
American Sign Language (ASL) IV	65480		
French I	65070		
French II		65271	65272
French III		65471	65472
French IV		65671	65672
French V		65771	65772
Spanish I	65030		
Spanish II		65231	65232
Spanish III		65431	65432
Spanish IV		65631	65632
Spanish V		65731	65732

	Year Long Course	First Semester	Second Semester
OnLine Learning (MVS)			
OnLine Learning		08887	08888
OnLine Learning (Credit Recovery)		60027	60028
EdOptions Academy			

	Year Long Course	First Semester	Second Semester
Consortium (Out-of-District)			
Advanced Cyber Security & Computer Network Engineering			67954CTE
			67953CTE
Agricultural Science & Zoology & Botany		67967CTE	67968CTE
Agricultural Science II		67983CTE	67984CTE
Cyber Security & Computer Network Engineering			67622CTE
			67621CTE
Cosmetology		67921CTE	67922CTE
Construction Trades I		67907CTE	67908CTE
Construction Trades II		67595CTE	67596CTE
Culinary Arts & Hospitality I & II		67925CTE	67926CTE
Energy Technology		67973CTE	67974CTE
Robotics & Automation Technology I		67915CTE	67916CTE
Robotics & Automation Technology II		67917CTE	67918CTE
Firefighter		67965CTE	67966CTE
EMT		67961CTE	67962CTE
Certified Nursing Assistant (CNA)			67364CTE
Manufacturing Tech		67937CTE	67938CTE
Work-Based Learning CO-OP 1 Hour Block		67947	67948
Private Pilot Ground School I & II		67957CTE	67958CTE
Phlebotomy			67936CTE
Welding		67555	
AFJROTC: Aerospace Science & Leadership		60043	60044
JROTC: Management of the Corps		60045	60046

	Year Long Course	First Semester	Second Semester
Consortium (In-District)			
Early Childhood Education		69435	69436
Engineering Applications Semester Class		67111	67112
Engineering Applications Block	67120		
‡ Graphic Communications		67285	67286
Health Occupations		67933	67934
Pre-Med Science	67930		
Advanced Marketing		66235	66236
Teacher Cadet	67920		

	Year Long Course	First Semester	Second Semester
Dual Enrollment - U of M Flint			
Business Economics	* 2 Hour Block *	67971	67972
General Studies	* 2 Hour Block *	67975	67976
Pre-Engineering Program	* 2 Hour Block*	67351	67352
Medical Sciences	* 2 Hour Block *	67355	67356

	Year Long Course	First Semester	Second Semester
Peer For Peer			
** Peer For Peer		60031	60032

	Year Long Course	First Semester	Second Semester
Student Leadership			
** Student Leadership		60041	60042

	Year Long Course	First Semester	Second Semester
Advisory			
Advisory	60000		

	Year Long Course	First Semester	Second Semester
Independent Study			
** Independent Study			

	Year Long Course	First Semester	Second Semester
Navy JROTC			
Navy JROTC		60043	60044

* Special permission or admission test required
 ** Permission Form Required

‡ A two-hour block

