

SHEPHERD

High School



2026-2027

Course Offering Guide

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Shepherd Public Schools

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TO PARENTS AND STUDENTS

Shepherd High School courses are designed to help students reach their ultimate professional or vocational goals. The selection of appropriate courses may have a profound effect on career choices. Please read the enclosed course requirements and descriptions carefully before selecting courses.

GRADUATION REQUIREMENTS:

TOTAL CREDITS 27.5 which must include the following:

English.....4 credits
English 9, 10, 11, 12

Social Studies.....3 credits
World Studies, US History, Civics & Economics

Mathematics.....4 credits
Algebra 1, Geometry, Algebra 2, math experience... Totaling at least 4 credits

Science.....3 credits
Physical Science, Biology, Chemistry or Physics

Physical Education.....½ credit or Team Sports or Marching Band

Health Education.....½ credit

Finance.....½ credit (beginning with class of 2028)

Fine/Applied Arts.....1 credit

Foreign Language (Same Language)...2 Credits or 1 credit with extra credit in VPAA or CTE completion

& Talent Portfolio

TALENT PORTFOLIO

Students will be supported through the process of completing their talent portfolio during Prime Time. Prime Time is scheduled twice a month during the second and fourth Tuesday of each month. Every student has a Prime Teacher and is required to attend.

Talent Portfolio Requirements:

- Resume
- Cover Letter
- Letter of Recommendation
- Educational Development

Plan Completion of the following:

- Mock Interview
- 5 hours of Community Service
- Job Shadow or College Visit (form available in counseling office)
- Participation in the Career Fair

Personal Curriculum (PC)

Students who have need of adjustments to the Michigan Merit Curriculum may inquire about a personal curriculum with an administrator or counselor.

Graduating with Honors

Summa Cum Laude - (3.9 and above GPA's) will receive a gold cord to wear during the ceremony, and be noted in a special part of the graduation program.

Magna Cum Laude - (3.7 up to 3.9 GPA's) will receive a gold cord to wear during the ceremony, and be noted in a special part of the graduation program.

Cum Laude - (3.5 up to 3.7 GPA's) will be noted in a special part of the graduation program.

Honor Roll - (3.0 up to 3.5 GPA's) will be noted in a special part of the graduation program.

Michigan Transfer Agreement through MID: Shepherd High School Pathway

30 Credit hours needed.

ENGLISH COMPOSITION - 3 credits

ENG.111 - English Composition (3)

COMMUNICATION - 3 credits

COM.101 - Speech (3)

MATHEMATICS - 3 credits

MAT.212 - Statistics (3)

MAT.107 - College Algebra (3)

MAT.124 - PreCalculus (5)

MAT.126 - Calculus 1 (5)

NATURAL SCIENCE - 7 credits (1 lab and 2 different subjects)

FALL:

BIO.103 - Concepts of Genetics and Biotech (3)

WINTER:

ENV.200 - Environmental Science (4) with LAB

PHY.105 - Intro to College Physics (5) with LAB

SOCIAL SCIENCE - 6 credits (2 different subjects)

PSY.101 Psychology (3)

SOC.101 Sociology (3)

HUMANITIES - 6 credits (2 different subjects)

ENG.112 - English Literature (3)

HIS.101 - Iss in West Civ I (3)

SPN.102 - Elementary Spanish II (4)

******* Classes taught on Shepherd High School Campus
are highlighted**

TOP TEN HONORS

The scholastic honors of the Top Ten are determined by a formula combining the cumulative grade point average for all courses in grades 9-12 through the second trimester of senior year and a student's highest Composite SAT score. The formula is as follows: $(\text{GPA} \times 250) + (\text{SAT} \times .625) = \text{Numerical Academic Score}$. The highest possible Numerical Academic Score is 2000. A student's SAT score must be submitted to the school district prior to the last day of the second trimester of senior year. Top Ten students must have been enrolled as Shepherd High School students from the beginning of their junior year through graduation (trimesters 7-12). Students will have through the end of their 12th trimester to complete the Michigan Merit Curriculum.

NATIONAL HONOR SOCIETY

To be eligible for membership in the Shepherd chapter of the National Honor Society, a student must have a cumulative grade point average of 3.50 on a four-point scale. Two documented community service projects are also required for application for admission to National Honor Society.

COURSES/SUMMER SCHOOL/ADULT EDUCATION

Students who are attending high school but find that they do not have necessary credits to be considered on track for graduation may earn credit outside of Shepherd High School. These credits may be granted through approved credit recovery programs. Please see a counselor for details. It must be understood that any deviation from the day-school setting must be with the permission of the counselor and the principal to prevent students from taking courses that will not count toward graduation. Students are responsible for fees associated with such classes where it applies. More information is available in the counseling office.

DUAL ENROLLMENT.....<https://onwardshepherd.weebly.com/dual-enrollment.html>

This is a program designed to permit students to extend, enrich, and broaden their educational experiences by concurrently enrolling in college and high school classes. Courses may be taken at a variety of approved institutions.

This program is intended for eligible students who have met entrance requirements of the college or university as well as state requirements. Interested students should make appointments with the high school counselor and principal to see if they meet the requirements for dual enrollment.

Shepherd High School is responsible for paying the tuition and registration fees for students who meet these requirements in an **amount not to exceed the equivalent to the proration of the student's FTE or the cost of the course, whichever is less.**

NOTE: Failure to successfully earn credit in a Dual Enrollment course will require reimbursement of 100% of cost for course. No further Dual Enrollment course will be scheduled until payment in full.

ARTICULATION

Some higher education institutions have granted an articulation agreement. Articulation is a method of granting university credit for learning and skills accomplished as part of secondary level accomplishment. Please contact the counseling office for details.

SCHEDULE CHANGES

A student may not drop classes without the permission of a counselor and/or parent/guardian. All schedule changes must be done prior to the start of the term. Exceptions: Some changes after the start of a term will be made only for one of the following reasons:

- inappropriate academic placement
- CTE program adjustment
- Approval for dual enrollment
- improper grade level placement
- Approval of independent study
- Staff recommendation

MICHIGAN STUDENT TEST of EDUCATION PROGRESS

All high school students will take the state required High School Tests in Mathematics, Science, English, Language Arts and Social Studies in the spring (MARCH) of their junior year. The M-STEP will include the SAT, the ACT WorkKeys, and several Michigan developed tests. Student transcripts will include SAT scores.

TESTING OUT OF COURSES

Recent changes in the school code have allowed for new opportunities useful in the planning of course selection for students. These guidelines are as follows:

Students may "test out" of a class by demonstrating mastery of the course material. It is to be considered a demonstration of mastery by earning no lower than a C+ on the final assessment for the course. The final assessment for the course may include projects, presentations, papers, etc. in order to demonstrate mastery for certain courses. The credit earned will be based on a pass/fail and will not be used in computing a grade point average. **Students must obtain approval from the high school principal and have tested at least two weeks prior to the trimester in which the course must be taken.** Once credit is earned in this manner a student may not receive credit in a lower level course from the same curricular department. Students must complete a Request to Test Out Application prior to trimester deadline. Then adhere to the scheduled material pick-up and testing dates which are set at the beginning of each school year. Please see a counselor for details.

RETAKING COURSE

A student who fails a required class must retake that class and earn a passing grade in order to meet graduation requirements. If the student retakes a course and earns a passing grade, the former grade will be changed to a NC and will not be reflected in the cumulative GPA. **Students may not repeat a course in which he/she has earned a C+ or better.**

HOMEWORK

It is recommended that each student have regular hours for homework and develop a plan of home study. Such a plan will not only assure better results in school work, but will lead to regular, well-formed study habits. A student needs to spend as much time on homework as necessary to achieve satisfactory results in his/her schoolwork. One of the greatest contributing factors to failure in high school is insufficient time spent on homework.

ACADEMIC DIFFICULTIES

When a student finds a course particularly challenging and needs extra help, there is a process to follow. The student should first approach his/her teacher and ask for additional explanation or after school help. If this is not satisfactory, the student should then make an appointment in the guidance office with his/her counselor. Various strategies will be discussed.

GRADE POINT AVERAGE (GPA)

Student grade point averages are calculated by dividing the sum of the numeric value of the letter grades on a 4-point scale divided by the number of courses taken. Classes for which there is no letter grade issued are not included in either the numerator or denominator of the equation.

GRADE SCALE

Teachers will utilize the following percentages in order to compute student grades:

93% - 100	A	73% - 76%	C
90% - 92%	A-	70% - 72%	C-
87% - 89%	B+	67% - 69%	D+
83% - 86%	B	63% - 66%	D
80% - 82%	B-	60% - 62%	D-
77% - 79%	C+	0% - 59%	E

Academic Requirements for College Athletes

More information with link at onwardshepherd.weebly.com

What is the NCAA Eligibility Center?

The NCAA Eligibility Center certifies whether prospective college athletes are eligible to play sports at NCAA Division I or II institutions. It does this by reviewing the student-athlete's academic record, SAT® or ACT scores, and amateur status to ensure conformity with NCAA rules.

What are NCAA Divisions I, II, and III?

The NCAA is the governing body of many intercollegiate sports. Each college regulated by the NCAA has established rules on eligibility, recruiting and financial aid and falls into one of the three membership divisions (Divisions I, II and III). Divisions are based on college size and the scope of their athletic programs and scholarships.

When should students register?

The NCAA recommends that student-athletes register at the **beginning of their junior year** in high school, but many students register after their junior year. There is no registration deadline, but students must be cleared by the Eligibility Center before they receive athletic scholarships or compete at a Division I or II institution.

How do students register?

Students must register online at the [NCAA Eligibility Center](http://NCAAEligibilityCenter.com). They will have to enter personal information, answer questions about their course work and sports participation outside of high school and pay a registration fee.

To qualify as an academic redshirt, you must graduate high school and meet **ALL** the following academic requirements:

Complete 16 core courses:

- ☐ Four years of English
- ☐ Three years of math (Algebra 1 or higher)
- ☐ Two years of natural/physical science (including one year of lab science if your high school offers it)
- ☐ One additional year of English, math or natural/physical science
- ☐ Two years of social science
- ☐ Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- ☐ Earn at least a 2.0 GPA in your core courses.

* Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale.

SHEPHERD HIGH SCHOOL REQUIRED COURSES

ENGLISH 4 CR	Visual Performing or Applied Art (1 CR)	Final Year Math Options
English 9A, 9B	Band	MAT 107 DE = ½ Cr
English 10A, 10B	Drumline - Zero Hour Course	MAT 212 DE = ½ Cr
English 11A, 11B	Jazz Band - Zero Hour Course	MAT 124 DE = 1 Cr
English 12A or DE ENG 111	Concert Choir	MAT 126 DE = 1 Cr
English 12B or DE ENG 112	Blue & Gold Singers (audition)	MAT 225 DE = 1 Cr
MATH 4 CR	Wood Fabrication	Finance
Algebra 1A, 1B, 1C	Metal Fabrication	CTE - Accounting
Geometry A, B	Advanced Woods/Fabrication	CTE - Auto Tech
Algebra 2A, 2B	CADD	CTE - Agri-Science
Advanced Algebra 2A, 2B, 2C	Cabinetmaking	CTE - Business Management
IEP - Pre-Algebra	Modern Storytelling	CTE - Construction Trades
4th credit/final year	Art	CTE - Culinary Arts
SCIENCE 3 CR	Drawing and Painting	CTE - Health Science Careers
Physical Science A, B	Ceramics and Sculpture	CTE - Interior Design
Biology A, B	Photography	CTE - Machine Trades
Chemistry A, B	Yearbook	CTE - Marketing
SOCIAL STUDIES 3 CR	CTE - Agri-Science	CTE - Technical Drafting
World Studies A, B	CTE - Business Management	CTE - Small Engines Tech
US History A, B	CTE – Criminal Justice	CTE - Welding
Civics & Economics	CTE - Culinary Arts and Food Services	CTE - Educational Careers
Health & PE 1 CR	CTE - Digital Media	All CTE courses are 3 Cr for full yr.
Health & (PE or Marching Band or Team Sports Participation)	CTE - Educational Careers	
	CTE - Graphics & Design	
WORLD LANGUAGE 2 CR	CTE - Interior Design	
Spanish 1 Credit/Exper. 1 CR	CTE - Machine Trades	
Spanish 2A, 2B	CTE - Marketing	
FINANCIAL ½ CR	CTE - Technical Drafting	
Finance (beginning w/ cl of 2028)	CTE – Welding	

SHEPHERD HIGH SCHOOL ELECTIVE COURSES

ENGLISH	Tris	Grade	BUSINESS	Tris	Grade	CTE (Grades 11 and 12)
Young Adult Literature	1	9-12	Career Exploration	1	9-12	Accounting
Student Leadership	1-3	9-12	Marketing & Management	1	9-12	Automotive Tech
Modern Storytelling - Sport Stories	1	9-12	Finance	1	9-12	Business Management
Modern Storytelling - Crime & Mysteries	1	9-12	INDUSTRIAL			Construction Trades
Yearbook R	1-3	9-12	Wood Fabrication	1	9-12	Culinary Arts and Food Services
Film Review	1	9-12	Metal Fabrication	1	9-12	Cybersecurity
SCIENCE			Adv Woods/Fabrication	1	10-12	Digital Media#
Wildlife Biology	1	9-12	CADD	1	9-12	Education Careers
Animal Science	1	10-12	Cabinet Making	1	9-12	Health Science Careers
Forensic Science	1	10-12	SPECIAL AREAS			Interior Design
Zoology	1	9-12	College and Career Readiness	1	11-12	Machine Trades
Anatomy	1	10-12	Work Study	1	11-12	Marketing
DE BIO 103	1	11-12	Guided Academics	1	9-12	Printing/Graphic
DE PHY 105	1	12				Small Engine Tech
DE ENV 200	2	12	PHYSICAL EDUCATION			Technical Drafting
SOCIAL STUDIES			Strength & Conditioning T1,T2,T3	1R	9-12	Welding
History vs Hollywood & HH 2.0	1	9-12	Advanced Health/Nutrition	1	10-12	Agriscience - Alma
Practical Law	1	10-12	PE Sports Fall	1R	9-12	Pre-Engineering - Alma
DE HIS 101	1	10-12	PE Sports Winter	1R	9-12	Criminal Justice/Public Safety - Alma
DE PSY 101	1	10-12	PE Sports Spring	1R	9-12	Criminal Justice/Fire Fighting - Alma
DE SOC 101	2	10-12				
MATH						Common Dual Enrollment
MAT 107 DE COLLEG ALGEBRA	1	11-12				PSY 101 (Psychology) - 3CR
MAT 212 DE STATS	1	11-12	R = Allowed to REPEAT			SOC 101 (Sociology) - 3CR
MAT 124 DE PRE-CALC	2	11-12	STEM			HIS 101 (History) - 3CR
MAT 126 DE CALC 1	2	11-12	Exploration Hour	1	9-12	BIO 107 (Wildlife) - 3CR
MAT 225 DE CALC 2	2	11-12	Intro Computer Science	1	9-12	CHM 105 (Chemistry) - 4CR
ART			Intro to CODING A & B	1	9-12	BIO 103 (Intro Biology)- 3CR
Art	1	9-12	STEM Discovery - Engineering	1	9-12	ENG 111 (English 12A) - 3CR
Drawing and Painting	1	9-12	Drones & Robots	1	9-12	ENG 112 (English 12B) - 3CR
Ceramics and Sculpture	1	9-12	Building, Making, & 3D Print	1	9-12	MAT 107 (College Algebra) - 3CR
Photography	1	9-12				MAT 212 (Stats) - 3CR
MUSIC						MAT 124 (Precalc) - 5CR
Band	3	9-12				MAT 126 (Calc 1) - 5CR
Drumline - Zero hour T1	1	9-12				COM 101 - (Speech)
Jazz Band - Zero Hour T2&T3	2	9-12				ENV 200 (Environ. Sci) - 4CR
Concert Choir	3	9-12				PHY 105 (Physics) - 5CR
Blue & Gold Singers (audition)	3	9-12				Note: All DE classes greater than 3 College Cr will earn 1 full HS Cr and may take up to 2 spots in schedule per tri AND/OR can include LAB time
Theatre T1	3	9-12				
Theatre T2	1	9-12				
Theatre T3	1	9-12				

SHEPHERD HIGH SCHOOL

Career Technical Education & Dual Enrollment

CTE (Grades 11 and 12)

Accounting
Automotive Tech
Business Management
Construction Trades
Culinary Arts and Food Services
CyberSecurity
Digital Media/Web Design
Education Careers
Health Careers/ CENA
Interior Design
Machine Trades
Marketing
Printing/Graphic Communication
Small Engine Tech
Technical Drafting
Welding
Agriscience - Alma
Pre-Engineering - Alma
Criminal Justice -Alma

Common Dual Enrollment

PSY 101 (Psychology) - 3CR
SOC 101 (Sociology) - 3CR
HIS 101 (History) - 3CR
BIO 107 (Wildlife) – 3CR
BIO 103 (Intro Bio) - 3CR
CHM 105 (Chemistry) - 4CR
ENG 111 (English 12A) - 3CR
ENG 112 (English 12B) - 3 CR
COM 101 (Speech) - 3CR
MAT 107 (Col Algebra) - 3CR
MAT 212 (Stats) - 3CR
MAT 124 (Precalc) - 5CR
MAT 126 (Calc 1) - 5CR
PHY 105 (Physics) - 5CR
ENV 200 (Environmental) - 4CR
SPN 102 (Spanish 2) - 4CR

**Note: All DE classes greater than
3 College Cr will earn 1 full HS Cr
and can include a LAB period**

English Department

To meet the needs of Shepherd High School students and to keep current with the ever-increasing demands for flexible communication skills, the English department offers several courses to help students meet high school graduation requirements. The courses are organized in a sequential skill and concept approach, which enables students to achieve success and experience with all components of communication and prepares them for the Michigan Merit Exam required by the state. The required courses are established to teach the basic communication skills necessary for success in society. They are designed to make students competent in the reading, writing, speaking, listening, and literature appreciation strands of the English language. As students progress through the curriculum, there is increasing demand for them to organize and critically analyze all forms of information. All required classes incorporate the exit outcomes as established by Shepherd High School. In order to graduate, students must receive four credits in the required classes listed below.

Required Classes

Grade 9: English 9 A&B

Grade 10: English 10 A&B

Grade 11: English 11 A&B

Grade 12: English 12 A&B or Dual Enrollment ENG 111 and ENG 112

English 9 Grade 9 2 Trimesters

All ninth-grade students are required to take ninth grade English before taking any other English class. The class includes an introduction to the study of several different genres of literature. The classes will also emphasize English language conventions and grammar standards. Major writing assignments will be essays and a research project.

English 10 Grade 10 2 Trimesters

The tenth grade curriculum includes a continuation of the English Language Arts standards by introducing students to a variety of literary genres. The classes will also emphasize English language conventions and grammar standards. Major writing assignments will be essays and a research project.

English 11 Grade 11 2 Trimesters

The eleventh grade curriculum includes a continuation of the English Language Arts standards by introducing students to a variety of literary genres. The classes will also emphasize English language conventions and grammar standards. Major writing assignments will be essays and a research project.

English 12 Grade 12 2 Trimesters

The twelfth grade curriculum includes a continuation of the English Language Arts standards by introducing students to a variety of literary genres. The classes will also emphasize English language conventions and grammar standards. Major writing assignments will be essays and a research project.

English Department Electives

In order to challenge the diverse interests of the students of Shepherd High School, the Department of English offers several elective or exploratory courses. While the required courses enable students to attain proficiency in general communication skills, the elective courses allow students to expand their awareness and experience in specific components of the language arts area. The elective courses listed below do not satisfy the department requirements for graduation.

Young Adult Literature

Grades 10-12

1 Trimester

This course focuses on the history, genres, themes, and characteristics of young adult literature. The genres covered include contemporary, historical fiction, science fiction, and fantasy. Students will read a minimum of 6 books both individually and in small groups and will complete a variety of projects along with daily discussions and reflections.

Yearbook

Grades 9-12

1-3 Trimesters

This course is designed for students who are interested in being involved in the advanced stages of publication productions and journalism, including the editing and supervision of the school yearbook. Students will gain skills in page design, publishing, photography, and production. This class requires additional duties outside of the normal school day.

BlueJays Leading Together

Grades 9-12

1-2 Trimesters

This course is an experience and project-based course with a strong focus on student mentorship and helping other students. In addition, students will focus on developing individual and group leadership skills. Students will participate in team-building and leadership activities, as well as partner with students from other classes to implement and plan projects from start to finish. Students must complete an application and be accepted to be eligible for this class. Applications can be picked up from the High School office, Mr. Halliwill, or Ms. Baker.

Modern Storytelling:

Grades 9-12

1-2 Trimesters

Modern Storytelling: Sports Stories: This course will focus on one specific topic for the trimester and how stories are told in a variety of genres about that topic. This trimester's topic is sports stories. Many Americans either participate in some sport or watch their favorite sports without being aware of the stories being told in real time. Students will examine the connection between sports, stories, and society by interacting and analyzing different genres (novels, news stories, poetry, short stories, novels, articles, films, podcasts, music, etc.). Students will work independently and collaboratively to complete a variety of projects in order to understand the impact of different modes of storytelling, specifically in the sports genre.

Modern Storytelling: True Crime & Mysteries: This course dives into the stories that keep people up late asking "What really happened?" In this project-based elective, you will investigate real cases and fictional mysteries through book clubs, podcasts, documentaries, articles, history, and more while uncovering how suspense, clues, and perspective build stories. You'll research evidence, debate theories, and create your own investigative and creative projects as you explore why mysteries are so addictive & popular, as well as how modern storytellers turn questions into unforgettable narratives.

Fiction & Filmmaking

Grades 9-12

1 Trimester

This course explores the art of storytelling through film, focusing on both the analysis and creation of cinematic works. Students will study various film genres, filmmaking techniques, and narrative structures, learning to interpret and critique films. Through hands-on activities, including storyboarding and adapting short stories into short films, students will gain practical skills in screenwriting, visual storytelling, and film production. The course culminates in the creation of a student film, allowing students to apply their knowledge and creativity in a collaborative project.

Mathematics Department

4-credit mathematics requirement minimum of Algebra 2

Algebra 1 **Grades 9-12** **3 Trimesters**

Algebra 1 is a first course in the formal study of mathematical language and principle. Through algebra 1, knowledge and skills necessary for further mathematical study will be developed. Algebra is a full year course containing the study of the principles upon which the real number system is based. Integrating algebra and geometry concepts, algebra 1 provides the mathematical content necessary to align with local, state and national mathematics curriculum guidelines. Algebra is an important study, which is fundamental to all science and technology as well as the prerequisite to formal geometry and other future mathematics courses.

Geometry **Grades 9-12** **2 Trimesters**

Prerequisite: Algebra 1, and course placement by mathematics department

Geometry is an organized study of the relationships between points, lines, angles, planes, and the resulting plane and solid figures. Logical thinking is developed through the proving of statements dealing with the basic elements of geometry. Some algebra is used in solving geometric situations. Practical applications show how deductive reasoning can be used in non-mathematical, as well as, mathematical cases. The course concludes with some work in the coordinate and solid geometry areas. Geometry is essential for students entering careers in all fields of science and mathematics and also for those considering art, social studies, language and music. Students showing high ability in math may take geometry and algebra 2 at the same time. Consent to "Double" form must be approved by the Mathematics Department.

Algebra 2 **Grades 10-12** **2 Trimesters**

Prerequisite: Algebra 1, Geometry, and course placement by mathematics department

Algebra 2 begins with a review of number properties, one-variable equations, and two-variable functions and equations. Throughout the course, students will examine the following types of functions analytically and graphically: linear functions, quadratic functions, higher degree polynomial functions, radical functions, exponential and logarithmic functions, and review SAT concept. The course will include basic applications of each type of function. Students showing high ability in math may take Geometry and Algebra 2 at the same time. Consent to "Double" form must be approved by the Math Department. *Students who take Algebra 2 can take Advanced Algebra 2C if they plan to continue their education beyond high school or their post secondary plans include the skills that are taught during the course.*

Advanced Algebra 2 **Grades 10-12** **3 Trimesters**

Prerequisite: Algebra 1, Geometry, and course placement by mathematics department

Advanced Algebra 2 will prepare students for courses beyond a high school education. This course takes the concept of Algebra 2 and goes into a more in depth application of each lesson. Advanced Algebra 2 begins with a review of number properties and works its way up to three-variable linear functions. Throughout the course, students will examine the following types of functions analytically and graphically: linear functions, quadratic functions, higher degree polynomial functions, radical functions, exponential and logarithmic functions, rational functions, reciprocal functions, and trigonometric functions. This course will include advanced applications of each function and set the basis for all future college mathematics courses. Students showing high ability in math may take Geometry and Advanced Algebra 2 at the same time. Consent to "Double" form must be approved by the Math Department.

Math Intervention**Grades 9-12****1 Trimesters*****Prerequisite: Teacher placement***

Math Intervention is used to deepen math skills in order to help students find success in high school math courses.

Pre-Algebra**Grade 9 (IEP)****2 Trimesters*****Students are placed into this course through an IEP.***

This course is designed to provide students with an opportunity to develop and improve their math skills before taking Algebra 1. The course will cover the basics of mathematics; rounding, fractions, and the coordinate plane, as well as factoring, distribution, identifying patterns, and solving one and two step equations. This course is credit bearing and students will receive a letter grade based on their demonstration of the skills presented.

Early College Advisory**Grade 13 (IEP)****3 Trimesters*****Students are placed into this course through acceptance into the 5th year Early College Program.***

This course is designed to provide students with an opportunity to develop and improve their math and financial skills by creating a budget with a spreadsheet. This spreadsheet will also include logic and mathematical formulas to calculate cells based on other cell values.

Science Department

Required Course Sequence

2 trimesters of Physical Science 2 trimesters of Biology
2 trimesters of Chemistry

Physical Science A **Grade 9** **1 Trimester**

This is a 1 trimester course covering essential physical science concepts such as 1-D Kinematics, Newton's Laws, Momentum, Energy, and Thermodynamics. This class is required for all students.

Physical Science B **Grade 9** **1 Trimester**

This is a 1 trimester course covering essential physical science concepts such as Electricity/Magnetism, Sound, Light, and Earth/Space Science. This class is required for all students.

Biology A **Grade 10** **1 Trimester** *Prerequisite: Completion of Physical Science*

This course is required for 10th grade or first year high school science students. Two trimesters of biology are required for high school students in science. This course will cover essential biology concepts such as how systems work, cell structure review, introductory chemistry, organic macromolecules and basic genetics.

Biology B **Grade 10** **1 Trimester** *Prerequisite: Completion of Physical Science*

This course is required for 10th grade or first year high school science students. Two trimesters of biology are required for high school students in science. This course will cover natural selection and evolution, how energy is created and used by living things, and principles of ecology.

Chemistry A **Grade 11** **1 Trimester** *Prerequisite: Completion of Biology A and B*

This class will study all essential chemistry concepts over the course of 1 trimester.

Chemistry B **Grade 11** **1 Trimester** *Prerequisite: Successful completion of Chemistry A.*

This class will study all core chemistry concepts over the course of 1 trimester. Concepts learned in chemistry A will be built upon and integrated into new concepts taught during chemistry B. This part of the course includes many projects that will require students to use their new knowledge of chemistry.

Science Department Electives

Wildlife Biology **Grades 10-12** **1 Trimester** *Prerequisite: At least a B in Biology*

This course focuses on Michigan's wildlife. Topics will include but are not limited to taxonomy, identification, conservation, sustainability, career exploration. Students will explore the relationship between humans and wildlife, natural resource management, and the importance of biodiversity.

Animal Science

This course focuses on the animal industry and animal husbandry. The class covers a variety of topics, including but not limited to anatomy, nutrition, economics, and career exploration. Many projects will be incorporated throughout the trimester.

Zoology **Grades 10-11** **1 Trimester** *Prerequisite: At least a B in Biology*

This is a 1 trimester class that studies the great diversity of animal life found on this planet. Numerous projects will be assigned throughout the year in this class. Some dissection may take place. These projects will require the student possessing or learning many forms of technology.

Forensic Science **Grades 10-12** **1 Trimester**

This class is designed to be a 1 trimester course. One trimester will study the biological components of forensic science such as determining blood types, fingerprinting, DNA analysis, and hair analysis. Many lab activities will be incorporated in this class.

At least one year of the following one-trimester courses is strongly recommended to any student planning on taking a biology course in college. These classes are designed for students who received at least a B in a Biology course.

Anatomy **Grades 10-12** **1 Trimester** *Prerequisite: 10th grade*

This course focuses on the structure-function relationship of the human body systems. Both identification and application of the parts of the human body's anatomy is required. Systems that will be explored include but are not limited to the Skeletal System, Muscular System, Nervous System, Cardiovascular System, and the body's special senses.

Laboratory Technician **Grades 11-12** **1-3 Trimesters**

To be eligible for this position the student will have successfully completed chemistry with at least the grade of a B and have the permission of the department chairperson. Only one student will be eligible to fill this position each hour. The student will be required to keep the stock room neat and orderly, put out and put away all lab materials, mix solutions, help students with research projects, do internet searches for information, and use all apparatus in science classrooms. In addition, the student will be required to formulate a question and conduct research over the course of the year concerning their question. By the end of the year they will have typed a copy of their research, presented it orally in a formal setting, and published it on the internet.

DUAL ENROLLMENT SCIENCE ELECTIVES: BIO 103, PHY 105, ENV 200

Social Studies Department

Required Classes

9th World Studies
10th United States History
11th Economics / Civics

Elective Classes

Practical Law
History vs. Hollywood and History vs. Hollywood 2.0
Modern America & Current Events

World Studies

Grade 9

2 Trimesters

This survey course of world studies begins with the development of ancient civilizations and ends with 20th and 21st century world issues. Units of study will include: Emergence and Growth of Early Civilizations, Classical Civilizations, The Middle Ages, Development of Europe, and American Issues in 20th and 21st centuries. Emphasis is not only placed on historical themes, but also on geographic trends and patterns.

United States History

Grade 10

2 Trimesters

United States history is the study of 20th century American history. This survey of American history starts with life at the turn of the century and ends with the study of the present day. Major units of study include: Immigration, Progressive Era, Imperialism, and World War I; the 1920s, the Great Depression and the New Deal; World War II; the Cold War; the Civil Rights Movement; the Kennedy and Johnson years; the Vietnam Era; Social Movements of the 1960s and 1970s; the Nixon, Ford, and Carter years; the Reagan and Bush years; and Contemporary American Society. Specific emphasis is placed on the social, economic, political, geographic, and ideological factors that shaped our country.

Civics

Grade 11

1 Trimester

This class studies the development of government in America. It includes a systematic examination of government at the local, state, and federal levels. Emphasis is placed on the individual's roles in the governmental process through their citizenship and responsibilities.

Economics

Grade 11

1 Trimester

Students will study the basic theories, laws, terminology, facts, and history of economics. Emphasis will be placed on integrating basic economic philosophy (scarcity, supply/demand, role of the consumer, role of business, role of government) into the lifestyles of the students. International dynamics of economic issues are also addressed.

Social Studies Electives

Modern America & Current Events

Grades 11-12

1 Trimester

Prerequisite: US History A and US History B

Modern America & Current Events is the study of recent American History. This class focuses on the time period from 1980 to the present and centers on America's role in major world events. Major topics of study include: The Reagan presidency, the end of the Cold War, the First Gulf War, the Clinton Years, the 2000 election, September 11th, and the War on Terror. Students in the class will also study current issues that are facing America. Pre-requisites for this class include U.S. History A & B.

Practical Law

Grades 11-12

1 Trimester

This class is a study of the court system, criminal law, and civil law. Topics include landmark court decisions, recognition of crimes, the criminal justice system, juvenile justice, types and purposes of punishment, and tort law.

History v. Hollywood and 2.0

Grades: 9-12 Course Length:

1-2 Trimesters

This elective course explores how Hollywood portrays historical topics through film. In this course students will view Hollywood produced movies and analyze how accurate they are. In the course of viewing the movie, students will learn about the context of the time in which the movie is set and compare primary source materials to the version of history that is illustrated in the film. Students will also complete projects to learn about the history that the movie is set in. Emphasis in this course is placed on historical thinking skills that enable students to evaluate evidence, develop comparative and causal analyses, interpret the historical record, construct sound historical arguments, and recognize perspectives on which informed decisions can be based.

This course meets the following Shepherd High School student exit outcomes: critical thinking/ problem solving, communication/ literacy, teamwork, and proficiency in social studies.

World Language

Spanish 1

Grades 9-12

2 Trimesters

Spanish 1 is geared to enable a student to communicate on an elementary level in Spanish speaking, reading, and writing. Students will receive a general introduction to Hispanic cultures. As much as possible, the class is conducted in Spanish.

Spanish 2

Grades 9-12

2 Trimesters

Prerequisite: Spanish I

Spanish 2 has the same format as Spanish 1, but with more emphasis on conversation and vocabulary development. Along with oral and written work, time will be devoted to the study of Hispanic cultures. All students who complete Spanish 1 are urged to take Spanish 2

DUAL ENROLLMENT OPTIONS:

DE SPN 102 (Online)

Health & Physical Education Department

Health: Grade 9 (1 Trimester)

The purpose of this course is to provide the students with factual information and resources to make the best decisions regarding their health. Topics include nutrition and physical activity, alcohol, tobacco and other drugs, safety, social and emotional health, personal health and wellness, HIV prevention, and sexual education.

Strength Training 9-12 (Suggested: 3 trimesters per year)

This course is for students and student/athletes who want to work to improve their physical, social, and mental health while learning about the primary muscle groups and their function. Students will be active every day with classes centered around the five categories of fitness: strength, speed, power, agility, and cardiovascular endurance. Daily workouts will include resistance, plyometric, and cardiovascular training. Students will also work towards creating a personal workout plan designed around their specific goals.

PE Sports: Grades 9-12 (Fall, Winter, Spring)

PE Sports is open to all students, grades 9-12. In PE Sports, students will be developing their manipulative skills for recreational activities while also improving their five categories of fitness (strength, speed, agility, power, and cardiovascular endurance).

Sports Leadership & Management Grades 9-12 (1 Trimester)

THIS WILL BE OFFERED AS AN INDEPENDANT STUDY - Needs Approval with Teacher!

This course is designed for students interested in the behind-the-scenes aspects of sports. Students will explore the fundamentals of sports administration, officiating, event management, and social media promotion, while continuing to participate in physical activities related to each sport. The goal is to help students develop leadership, communication, and organizational skills that extend beyond the playing field.

Advance Health/ Nutrition Grades 9-12 (Must have had Health 9)

This course is designed for the student ready to take ownership of their future, this course examines the pillars of Lifelong Health. Students will engage with a curriculum ranging from Advanced Nutrition and Substance Education to Personal Safety and Social/Emotional resilience. This course emphasizes practical Life Skills, empowering students to analyze health trends and advocate for their own physical and mental well-being.

Life & Career

FAMILY AND CONSUMER SCIENCE DEPARTMENT

Family and consumer science classes offer foundational skills to help students function and prosper as responsible teens and in their independent lives after high school and throughout the life cycle. This curriculum encourages and supports the quality, growth and stability of the family unit. Students can develop an individual sense of wellbeing to become contributing members of society as a family member, worker, nurturer, consumer, citizen and life-long learner.

Life Skills

Grades 9-12

1 Trimester

Students are placed into this course through an IEP.

The focus of this class is to provide information on upcoming adult responsibilities and skills needed in a changing world. Coursework includes units on personal management, self-discovery, making responsible decisions, and violence prevention. These topics are covered first in order to allow students to better understand themselves and their approaches to life before moving on to specific skills.

Students also learn specific life skills of nutrition, food preparation, making wise consumer choices, and employment skills. Also, stress management and communication skills are studied and practiced to establish and maintain relationships at home and in the working world.

College & Career Readiness

Grades 11

1 Trimester

The focus of this class is to provide opportunities to improve skills toward preparing for college entrance exams as well as exploring several career options.

Business Department

Course Name

Length

Career Exploration and Readiness
Marketing & Management
Finance
Work-Based Learning

1 Trimester
1 Trimester
1 Trimester
1-6 Trimesters

Career Exploration and Readiness

Grades 9-12

1 Trimester

This class will empower students to make choices about their future by exploring the various career pathways, evaluating their strengths and weaknesses, interests, and goals, and to help prepare them to enter the workforce. They will explore education and career options, the job search process, including resume and interview preparation, and how to prepare and plan for the future. Presentations from local employers and professionals from the various career pathways will be used to educate the students on the skills they need to be successful and how they can prepare for entering the workforce. Students will have an opportunity to job shadow in a career field of their choice.

Marketing & Management

Grades 9-12

1 Trimester

Students in this class will earn retail experience working in "The Jay's Nest", the school store, which can be added to the student's resume and aid in obtaining future employment. This will give them hands-on experience in sales, marketing, management, and customer service as they help set up displays, design, order, market, and sell merchandise, keep various records, provide inventory control, and obtain other useful skills related to marketing and management in a retail setting.

In addition to retail exposure, students will also explore marketing and management concepts such as entrepreneurship, advertising, sales promotion, and careers in a variety of areas including sports, entertainment, hospitality, and tourism.

Finance

Grades 10-12

1 Trimester

Students will study a variety of subjects related to finance and investment activities. Students will learn about employee pay and benefits, federal and state income taxes, preparing income tax forms, setting financial goals, saving/paying for college and retirement, and investing in stocks, bonds, mutual funds, real estate, and other investment alternatives.

Work-Based Learning

Grades 11-12

1-6 Trimesters

Prerequisite: Business Technology

Work-based Learning is a program that gives the student an opportunity to further explore their chosen career field and gain experience in a supervised environment. Students will have release time from the regular school day in order to fulfill the obligations of the employment experience. The work position **MUST** be previously evident as a career interest in the student's Educational Development Plan (EDP).

Credits will be earned toward graduation. In order to qualify for this program, students need to contact the counselor for credit approval and the Work-Based Learning Coordinator to start the application process. Students in the Work-Based Learning Program may work in a position they acquired on their own or in a position referred to them by the coordinator. In all cases the employer must be the one who agrees to offer the student a broad exposure to the total business operation and a legitimate training situation as judged by the Coordinator

STEM Department

Course Name

- ☐ Intro to Computer Science
- ☐ Intro to Coding A and B
- ☐ Exploration Hour - (Using AI tools)
- ☐ STEM Discovery: Engineering Principles
- ☐ Drones and Robots
- ☐ Building, Making, and 3D Printing

Intro to Computer Science

Grades 10-12

1 Trimester

This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming using Python along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science.

Intro to Coding A and B

Grades 9-12

2 Trimesters

Coding A

Students will be introduced to computer science through real-world problem solving, web development, and interactive programming. Students will explore how computers process information, design websites to meet user needs, and create interactive animations and games. Students will develop skills in programming, debugging, collaboration, and digital literacy.

Coding B

Students will learn how to use computer science as a tool for creativity, innovation, and social impact. Through human-centered design challenges, students develop apps and physical prototypes that solve real-world problems. Students will explore how data and machine learning can drive decision-making, and how smart devices respond to the world around us. With a focus on collaboration, empathy, and iterative design, students build meaningful technology that makes a difference.

Exploration Hour (AI Tools in Research)

Grades 10-12

1 Trimester

This course is for self-starters, big dreamers, and creative thinkers. If you're ready to take charge of your own learning and build something you're proud of, Genius Hour is for you. Have you ever had an idea you wanted to explore, a skill you've wanted to master, or a project you've always wanted to create—but never had the time in school? Genius Hour is your chance to turn curiosity into action. Using Social Science research skills, this class gives you dedicated time each day to dive into a passion project of your choice. Whether you're building something, writing something, designing, filming, experimenting, or researching—you choose the topic, and you create the final product. Along the way, you'll learn how to set goals, manage your time, overcome obstacles, and share your work with others. You'll finish the course by presenting your project to an audience in a format that fits your work.

STEM Discovery: Engineering Principles

Grades 10-12

1 Trimester

Get ready to design, build, test, and rebuild in this project-focused engineering course. Students will work through the full design process as they create multiple prototypes and explore what makes a design strong, efficient, or innovative. Each challenge encourages students to experiment, learn from mistakes, and push their ideas further. This is a great class for anyone who loves hands-on learning and wants to see their ideas come to life.

Drones and Robots**Grades 10-12****1 Trimester**

In this hands-on STEM course, students will learn to code, drive, and fly robots and drones. They will program both robots and drones to navigate obstacle courses in autonomous and user-controlled modes. Students will practice problem-solving, teamwork, and precision control, and drone operators may have the opportunity to qualify for drone competitions around the state.

Building, Making, and 3D Printing**Grades 10-12****1 Trimester**

In this creative maker course, students will design and build projects using 3D printers and laser cutting machines. They will learn the basics of digital design and prototyping while completing projects such as designing their own board game and creating custom pieces. The class emphasizes creativity, design thinking, and hands-on problem solving.

Introduction to Basic Engineering**Grades 10-12****1 Trimester**

This course introduces students to core engineering concepts through hands-on design projects such as designing bridges, kites, and other simple structures. Students will explore ideas like force, tension, torque, drag, and lift while testing and improving their designs. The focus is on learning how engineers think, plan, build, and refine solutions to real-world problems.

Visual Arts Department .

Art Basics (A & C)

Grades 9-12

1 Trimester

The objective of the first level of art is to build on the basics learned during the middle school years. During this course, we concentrate on two-dimensional work in drawing, painting and the elements and principles of design. An introduction to projects incorporating three-dimensional elements (clay, wire, mixed media) in design will also be explored. This course will also include an art history, reading, and writing component.

Drawing/Painting (A & C)

Grades 10-12

1 Trimester *Prerequisite: Art Basics*

Painting /Drawing is also a general course of study, but with much more time is devoted to developing advanced skills in drawing and painting. The main emphasis is placed on drawing and originality. The basic areas of study are painting (acrylic, oil pastels, charcoal, chalk, ink, and watercolor), printmaking, mixed media, , and a few crafts. Studying the art masters is included. The main objective of Drawing/Painting is to develop an understanding and appreciation for arts, with an emphasis on carry-over skills. Students will work on a higher level, developing confidence and skills that are useful life long. Creativity and originality are goals. Emphasis will be placed on developing individual style, and continued practice. Developing personal art portfolios should lead to success on both a personal and public level. This course will also include an art history, reading, and writing component.

Ceramics/Sculpture (A & C)

Grades 10-12

1 Trimester *Prerequisite: Art Basics*

Ceramics/Sculpture would incorporate basic hand built skills to develop functional clay pieces as well as decorative. sculpture methods in clay, plaster and other mixed media. Making molds and casting to create sculptures are two of the techniques that will be used in this class. Students will work on a higher level, developing confidence and skills that are useful life long. The assignments are from basics to lengthier and more challenging projects. Emphasis will be placed on developing individual style, and continued practice. Developing personal art portfolios should lead to success on both a personal and public level. This course will also include an art history, reading, and writing component.

Photography/Mixed Media (A & C)

Grades 9-12

1 Trimester *Prerequisite: Art Basics*

Photography/Mixed Media would incorporate basic elements and principles of design in photography and encourage exploration with other media (presentations, exhibits, animation, filmmaking). It would be advantageous to have a personal camera for this course but it is not a necessity. As the student progresses, various techniques of developing more creative and innovative pictures will be introduced. Working in small groups to produce projects adhering to technological content standards for the visual arts will be a course goal. Digital Photography and computer generated graphics will be goals within the course.. Students will work on a higher level, developing confidence and skills that are useful life long. The assignments are from basics to lengthier and more challenging projects. Emphasis will be placed on developing individual style, and continued practice. Developing personal art portfolios should lead to success on both a personal and public level. This course will also include an art history, reading, and writing component.

Performing Arts Department .

Members of the Musical Performing Arts Department shall be graded according to technical skill; musical skill, participation, cooperation and effort put forth, both during class time and outside activities.

Auditions may be requested by the directors of the music department at any time if need be.

Everyone in the music department shall be expected to adhere to the performance discipline policy of the Musical Performing Arts Department.

Jazz Band

Grades 9-12

3 Trimesters

Instructor Permission

Jazz band will consist of instrumental music students who:

1. Can read music or chords
2. Play one of the following instruments:
 - a. Saxophone
 - b. Trumpet
 - c. Trombone
 - d. Bass Guitar
 - e. Drum Set
 - f. Piano
 - g. Vibraphone

Music will be from the big band and classic jazz repertoire, with occasional pep band opportunities. Music will be prepared for all concerts, as well as special performances and contests.

Participation in the jazz band class will be limited to the standard instrumentation of a jazz band (see above) chosen by the instructor from the membership of the high school band, or extra students who qualify for supporting instruments and vocal roles with special permission. Full year participation is necessary to earn credit.

High School Band

Grades 9-12

3 Trimesters

High school band is a year long class, which includes both marching and concert band. An audition is necessary to judge the ability of the student and his/her skill. The student, as a member of the band, will be exposed to a variety of literature ranging in style, composition, and developmental level. All selections will assist the student in his awareness of style and taste, as well as instrument-specific technique. Members will participate in performances such as football games, marching exhibitions, concerts, parades, contests, and festivals. The director may request special occasions. Ambitious members will be allowed the opportunity to compete in solo and ensemble contests or All State Bands. Band participation will give the student the skills to later take part in community bands, church performance, and to use in their college and university career. Individual growth and achievement will add to the student's enjoyment. Members of the color guard who work with the high school band and are not regular instrumentalists of the program will be enrolled in the band class during the first trimester. All performances are considered to be exams and are mandatory. Students may also be assigned some theory work, given written assessments, or given playing assessments.

Concert Choir**Grades 9-12****3 Trimesters**

Concert Choir is an academic elective and is designed to be a year-long class. The requirements include participation in choral festivals, clinics, concerts, community events, assemblies and graduation. Opportunities will be provided for members of this class to perform the National Anthem at scheduled events, compete in solo & ensemble recital festivals, choral competition and participate in choir trips designed for fine arts enhancement. All performances are a graded requirement. Participation is mandatory. Most music literature performed in the class is based on the required standards published by the Michigan School Vocal Music Association. Choral literature of all music time periods will be performed, including foreign language and multicultural pieces. Sight reading and competition pieces are high school beginner to intermediate levels.

Blue & Gold Singers**Grades 9-12****3 Trimesters**

Blue & Gold Singers is an academic elective and it is a year-long class. It requires an audition with the Choral Director to determine vocal technique, rhythm, note reading, pitch and auditory skills. The requirements include participation in choral festivals, clinics, concerts, musicals, community events, assemblies and graduation. Opportunities will be provided for members of this class to perform the National Anthem at scheduled events, compete in solo & ensemble recital festivals, choral competition and participate in choir trips designed for fine arts enhancement. All performances are a graded requirement. Participation is mandatory. Most music literature performed in the class is based on the required standards published by the Michigan School Vocal Music Association. Choral literature of all music time periods will be performed, including foreign language and multicultural pieces. Sight reading and competition pieces are high school intermediate to advanced levels.

Applied & Industrial Arts Department .

Computer Aided Drafting and Design CADD 1 Grades 9-12 1 Trimester

CAD 1 fulfills the computer literacy requirement for graduation. CADD 1 is an introductory class that introduces the language used throughout the world to convey an idea into a model. Students will learn to use CREO Parametric computer software to build sketches, 3D models and Assembly Drawings. Other areas of instruction could be included such as CO2 Laser Engraving and 3D Printing

Metal Fabrication	Grades 9-12	1 Trimester
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Metal Fabrication is to instruct students on how to cut, shape, and form metal into a useful product. Units will be taught in Sheet Metal Forming, CNC Plasma Operations, Cutting and Processing Metal, and Basic Stick and MIG Welding Processes. The skills learned can be helpful in a variety of occupations and home maintenance. Students will be expected to complete lab assignments in each of the areas. Some projects may require students to make arrangements with the instructor cover material above and beyond the required projects.

Wood Fabrication Grades 9-12 1 Trimesters

Wood Product Fabrication is for students who want to learn how to safely use all the woodworking machines in the school's shop and construct a project from wood. Students will be taught how to use tools and machines to shape wood into a finished product. The main project will be a variation of coffee tables, end tables or sofa tables. Instruction will be provided on the fabrication of materials, wood joinery, and characteristics and finishes that can be obtained from wood. Students will be required to make projects of good quality and to make arrangements with the instructor to cover material above and beyond the required projects.

Cabinetmaking	Grades 9-12	1 Trimester
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In this 1 trimester course students will learn the basic steps in making furniture with an emphasis on cabinet construction. Instruction will be given on the safe use of tools and joinery used in cabinet making as well as construction/installation of raised panel drawers and doors . Examples of cabinetry projects are nightstands, kitchen cabinets, mobile kitchen islands, bookshelves,etc. Students will be required to make projects of good quality and to make arrangements with the instructor to cover material cost for projects if taken home.

Advanced Woodworking/Fabrication	Grades 10-12	1 Trimester
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Prerequisite: Wood Product Fabrication/Cabinetmaking with a C or Better Grade

This class is for students who have completed and passed Wood Fabrication. It is also beneficial if the student has passed Metal Fabrication as well. The student must have demonstrated good time management skills and safe working habits to take advanced woodworking/fabrication. Students work in labs constructing projects for the school/community and sometimes personal choice projects are allowed. . Projects must display an advanced level of ability. Successful Completion of the class requirements will meet the Visual, Performing, and Applied Arts requirement.

Specialized Areas of Study

INDEPENDENT STUDY

Independent study is a trimester offering at Shepherd that allows a student to work with a teacher to identify a desired course that exists outside the regular curriculum, to set goals or objectives in this area, and then to decide how and when to reach them.

The aim of the offering is to increase self-direction and to allow for individual interests and needs. It is a program that allows students to follow topics or interests not specifically represented in the regular curriculum. It is not an offering to be taken in lieu of a course being taught during the regular school year.

The program is open to any Shepherd student who has done the following:

1. Selected an area outside the regular school curriculum that he/she would like to explore. This area should foster creativity, curiosity, imagination, responsibility, initiative, self-discipline and love of learning.
2. Acquired an adult advisor.
3. Created a written plan with specific measurable outcomes, a plan of attack and target dates for meeting these outcomes.
4. Made a provision at the time of enrollment for the type of grading procedure to be followed by the advisor.
5. Made plans with an advisor for evaluation periods coinciding with the regular curricular report cards.

A faculty committee from the different departments and chaired by the coordinator of the Independent Study Program will be selected. It is the charge of this committee to review proposals, pass or reject those submitted for credit, and (if rejected) offer suggestions for future approval.

Guided Academics

Grades 9-12

1-3 Trimesters

Students will be provided with study skills development in addition to practical application of their skills on current course assignments. Students may also have opportunity for online credit recovery. Guided Academics is a credit bearing course and students will earn a letter grade associated with their demonstration of college and career readiness skills.

Transition Skills

Grades 10-12

1-3 Trimesters

Students are placed into this course through an IEP. This course is designed to provide students with opportunities to develop skills to transition into the workforce. Student placement is based on interest, availability, and current employability skills. This course is credit bearing and students will receive a letter grade based on demonstration of skill acquisition.

Gratiot-Isabella

Technical Education Center

PROGRAM GUIDE 2026-2027

Alma Campus
Mt. Pleasant Campus

Alma Technical Center, 1500 N. Pine Ave., Alma, MI 48801 (989) 463-7502 *** www.almaschools.net
Mt. Pleasant Area Technical Center, 1155 S. Elizabeth St., Mt. Pleasant, MI 48858 (989) 775-2210

www.gi-tec.com

Gratiot-Isabella Technical Education Center

1155 S. Elizabeth St., Mt. Pleasant (989) 775-2210 - www.gi-tec.com

1500 N. Pine Ave., Alma (989) 463-7502 - www.almaschools.net

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Welding

Art and Communication



Digital Media
Graphics/Printing
Interior Design

Digital Media

The Digital Media program is taught using a “hands-on” project-based approach to the world of information technology for business applications and multimedia design (2D, 3D, animation, motion graphics, video production and web site design and development will be explored). The program provides comprehensive skills in the design and use of information technology. Industry standard software such as: Adobe Photoshop, Animate, Dreamweaver, Illustrator, Premiere Pro, After Effects, etc. will be used to complete real-world projects.

COURSE CONTENT

- Digital Communication
- Graphic Design
- Project Management
- Customer Service & Planning
- Development Tools
- Web Site Design & Layout
- Web Development
- Web Administration
- Multimedia Production
- Design & Safety Standards
- Web Testing & Evaluation
- Technical Support

SPECIAL CLASS FEATURES

- Opportunity to participate in Business Professionals of America (BPA) Co-op opportunities available
- Job shadow opportunities available
- Opportunity to earn Visual/Performing/Applied Arts Credit
- Opportunity to earn college credit

EMPLOYMENT SKILLS FOR THE FUTURE

- Multimedia production
- Web design and development
- Self-directed and teamwork project management

Graphics/Printing

This Graphics program is a dynamic opportunity to study the various methods of reproducing images by printing, duplicating, screen printing, and photography. This includes computer copy preparation encompassing the use of Adobe Photoshop, Illustrator, and InDesign, scanners and laser printers, laser engraving and bindery. This course is designed for students who have a career interest in graphic design, printing fields, commercial design, advertising layout, and packaging design. Skills in customer service, estimation, and production are developed in the student-run printing lab.

COURSE CONTENT

- Intro to design and image development
- Introduction to image output
- Introduction to finishing operations
- Employability skills and Portfolio
- Applied academics
- Industry Overview
- Safety and Health
- New Media, Advanced Design & Image Development
- Leadership
- Advanced image output
- Advanced finishing operations
- Project Management

SPECIAL CLASS FEATURES

- Real-world job production
- Printing, duplicating, screen printing and photography
- Vinyl Signage
- Co-op opportunities available
- Job shadow opportunities available
- Visual/Performing/Applied Arts
- Credit Opportunity to earn College credit
- Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

- Customer service
- Estimating job costs
- Computer copy preparation
- Scanners and laser printer
- Laser engraving
- Vinyl Signage Cutting
- Bindery

Interior Design

The Interior Design program is a creative outlet for students interested in all aspects of design. Students demonstrate creativity in many types of design projects such as hotels, restaurants, studio apartments, kitchens, beach houses, living rooms, and nursery schools. Students develop skills in drafting, presentation techniques, barrier free design, specifications and material selection. Students apply the skills learned in the classroom with hands-on experience in a real world setting. Painting, hanging wallpaper and ceramic tiling are a few of the entry-level skills students will master preparing them to work in various aspects of a career in interior design. Students prepare portfolios showcasing their design strengths and abilities.

COURSE CONTENT Measurement

Techniques/ Drafting

Blueprint Symbols Circulator Pattern

Principles & Elements of Design

Color Theory

Professional design organization

Employability Skills

Advanced Tech. Skills

Interpreting prints & Specifications

Leadership and Teamwork

Codes and Barrier Free Design

Data Collection Analysis

Worksite

SPECIAL CLASS FEATURES

Interior design/drafting techniques

Kitchen Design

Barrier free design

Material selection

Computer-Aided Design

Portfolio development

Co-op opportunities available

Job shadow opportunities available

Visual/Performing/Applied Arts

Credit Senior Math Credit

Opportunity to earn College credit

Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

Painting, Hanging Wallpaper, Ceramic Tiling

Basic kitchen design

Problem-Solving

Math concepts

Blueprint reading

Basic CAD operations

BUSINESS



Accounting
Business Management
Marketing

Accounting

Accounting is a career-oriented course designed for students who plan to enter any area of business after graduation or attend college. This curriculum is project based with an emphasis on problem solving. Topics covered include the accounting cycles of service organizations and merchandisers focusing on the recording of business transactions and the preparation of financial statements. Advanced topics include corporate accounting, managerial accounting, cost accounting, tax accounting, and auditing. Students participate in a number of team building activities, such as auditing and simulating real work experience. Completion of this course will prepare students for job entry and/or articulated course credits at several Michigan colleges.

COURSE CONTENT

Introduction to Accounting & Financial
Reporting Cost-Volume-Profit Analysis
Accounting Information System
Accounting for Sales and Inventory
Time Value of Money
Accounting for Fixed Assets
Accounting for Long-term Liabilities and Equity
Financial Statements
Applied Academics
Career Development (Employability, Teamwork, Leadership, Entrepreneurship)
Business and Financial Management
Technology and Safety

SPECIAL CLASS FEATURES

Real-world clients
Opportunity to participate in Business Professionals of
America Co-op opportunities available
Job shadow opportunities available
Senior math credit
Opportunity to earn College credit

EMPLOYMENT SKILLS FOR THE FUTURE

Problem-solving
Basic Accounting
Payables/Receivable
Organization
Communication

Business Management

Business Management is an advanced level business course that focuses on the opportunities and challenges of managing a business in the free enterprise system. This curriculum is project based with an emphasis on teamwork, problem solving and communications. Business Management will also focus on management theory, human resource management and behavior, finance, purchasing, logistics, and production. A team of students creates a student company. The student company allows team members to become shareholders, gain leadership skills, become project managers, and to share in risk-taking, decision-making, problem solving, accounting, production, human resources, marketing, and other experiences that take place in operating a successful business. A career in this field encompasses planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Opportunities to participate in service projects will be emphasized. Completion of this course will prepare students for job entry and/or articulated course credits at several Michigan colleges.

COURSE CONTENT

- International Business
- Information Technology and Application
- Data Management and Administration
- Business Planning and Entrepreneurship
- Human Resources / Personnel Administration
- Operations and Quality Management
- Financial Analysis and Economics
- Communications
- Business Management and Leadership
- Law, Ethics, and Government Regulations
- Project Management
- Career and Professional Development

SPECIAL CLASS FEATURES

- Opportunity to participate in Business Professionals of America (BPA)
- Real-world business development
- Co-op opportunities available
- Job shadow opportunities available
- Senior math credit
- Visual/Performing/Applied Arts
- Credit Opportunity to earn College credit

EMPLOYMENT SKILLS FOR THE FUTURE

- Problem-solving
- Leadership
- Organization
- Communication
- Teamwork

Marketing

In the Marketing program, students develop practical skills that can be applied to a broad variety of businesses. Class projects require students to apply marketing concepts such as product design, distribution, purchasing, merchandising, logistics, market research, pricing, quality service, advertising, and promotion. A hands-on approach is utilized as students operate “The School Store” and organize special events. Students are challenged to act as organizational business leaders, taking on supervisory and management roles.

COURSE CONTENT

- Functions/Foundations of Marketing
- Selling
- Promotion and Social Media Pricing
- Financial Analysis
- Channel Management
- Entrepreneurship, Risk Management, and Operations
- Marketing Information Management
- Strategic Market Planning
- Product Service Planning
- Human Resources, Management, and Careers
- Economics

SPECIAL CLASS FEATURES

- Student-run school store
- Product merchandising
- Advertising and promotion Inventory (ordering and tracking)
- Real-world event planning
- Co-op opportunities available
- Job shadow opportunities available
- Senior math credit
- Visual/Performing/Applied Arts
- Credit Opportunity to earn college credit
- Opportunity to participate in Business Professionals of America (BPA)

EMPLOYMENT SKILLS FOR THE FUTURE

- Customer
- Service
- Teamwork
- Problem-solving
- Organization

FAMILY & CONSUMER SCIENCE OFFERINGS



Criminal Justice
Culinary Arts
Educational Careers
Health Careers/CENA

Criminal Justice

The Criminal Justice program gives students the opportunity to explore the basic concepts and potential careers in the Criminal Justice field. The program provides instruction in law enforcement, corrections systems, and juvenile justice systems. Criminal justice is primarily an academic program with some physical fitness aspects. Students will also have opportunities for hands-on activities, such as, handcuffing, investigations, and firearms training (training weapons only). There will be multiple field trips and guest speakers to give the students firsthand knowledge of what it is like to be a police officer, corrections officer, juvenile worker, and other careers in the field.

COURSE CONTENT

Public Safety Branches

Law and Legal System

Organizational

Structure

Professional Standards including Ethics and Legal Responsibility

Safety, Health and Environment

Public Relations

Career Development

Workplace

Technology

Problem Solving / Investigations

Leadership and Team Work

Communications

Applied Academic in Law and Public Safety

SPECIAL CLASS FEATURES

Real-world experience

Guest speakers from various

fields Co-op opportunities

available

Job shadow opportunities available

Opportunity to earn College credit

EMPLOYMENT SKILLS FOR THE FUTURE

Teamwork

Communication

skills

Problem-Solving and Ethical Reasoning

Leadership

Culinary Arts

The Culinary Arts program offers students hands-on experience in the food service industry. Students are taught the key components in food preparation and restaurant management. The students will participate in menu planning, food inventory (ordering and stock rotation) and safe food preparation. Students also learn basic preparation of a variety of ethnic food styles. Real world experience is gained by working in an on-campus, full-service restaurant. Culinary students are responsible for customer service, dining room and business management. This course prepares students for entry-level employment or a college degree focused on food design, preparation and restaurant management.

COURSE CONTENT

Culinary Core ServSafe & Sanitation
Guest Relations
Basic Cooking
Baking & Pastry
Management
Cost Control & Culinary Math
Marketing & Entrepreneurship
Advanced Cooking
Grade Manger (Pantry Chef)
Sustainability & Nutrition

SPECIAL CLASS FEATURES

Completers of the two-year program will be eligible to become ServSafe Certified. Co-op opportunities available
Job shadow opportunities available
Opportunity to earn College credit
Visual/Performing/Applied Arts
Credit

EMPLOYMENT SKILLS FOR THE FUTURE

Hands-on full-service training in student-run restaurant
Food prep and cooking and baking
Inventory and menu planning
Customer Service
Teamwork

Educational Careers

The Educational Careers course provides students an understanding of teaching as a career. Each student will have an opportunity to observe a teacher and learn teaching skills in a real world setting. Students will be placed in their home communities with an assigned mentor teacher. Through classroom activities, students will also become more aware of current trends relating to children, families, and the work place. Students must have good attendance and be able to pass a background check.

COURSE CONTENT

Human Growth and Development
Communication and
Collaboration Diversity
Classroom Management and
Guidance Applied Learning and Field
Experience Health and Safety
Employability Skills and Career Planning
Learning Environment and Climate
Ethics and Professional Responsibility
Systems and Legal Issues
Instructional Strategy/Technology
Curriculum Planning and Assessment

SPECIAL CLASS FEATURES

Work experience as a teacher assistant
Planning, preparation, and presentation of developmentally appropriate lesson plans
CPR and First Aid knowledge
An understanding of child development and classroom management techniques
Co-op opportunities available
Job shadow opportunities available
Opportunity to earn College credit
Visual/Performing/Applied Arts
Credit

EMPLOYMENT SKILLS FOR THE FUTURE

Teamwork
Communication
Work-site experience with elementary/middle school children, special needs programs, or other educational sites.

Health Science Careers

The Health Careers program offers students the opportunity to acquire knowledge and skills that are applicable to many health careers. In this one or two year program students will complete a core curriculum related to the Health Science Program. Topics include, but are not limited to, Medical Terminology, Medical Math, Anatomy and Physiology, Health Facility Safety, CPR and First Aid training. Students will also explore different health careers, participate in work-based learning experiences and complete a hands-on clinical experience. Students can select a curriculum path focused on becoming a CENA or another health-related career, such as pharmacy technician. At the end of the year, CENA and Pharm. Tech students will have the opportunity to become State certified. Students in this program must be able to pass a background check. Second year students may focus on a different area of Health Careers.

COURSE CONTENT

Medical Terminology
Communications
Teamwork
Safety
Legal (charting) & ethical standards
Technical skills (CPR)
Health
maintenance
Employability
Academic foundations (Anatomy & Physiology) & medical
math Work-based learning

SPECIAL CLASS FEATURES

Training and/or certification in CPR and First Aid
Certified Nursing Assistant (CNA)
Clinical experience
Guest speakers from various health career fields
Opportunity to participate in HOSA – a national health care organization for students
Co-op opportunities available
Job shadow opportunities available
Opportunity to earn College credit
Senior math credit

EMPLOYMENT SKILLS FOR THE FUTURE

Problem-solving
Patient care
Teamwork

TRADE & INDUSTRY OFFERINGS



AgriScience
Automotive Technology
Construction Trades
Drafting Electronics
Machine Trades
Pre-Engineering/Mechatronics
Small Engine Technology
Welding

AgriScience

AgriScience prepares students for a wide variety of careers in agriculture and animal science. Specific areas of study include Plant/Soil Science, Veterinary Science, Agricultural Business Management, Farm Mechanics, Leadership in Agriculture, and Greenhouse/Landscape Management. Class work is supplemented by hands-on experience in on-site laboratories and greenhouses, as well as, field trips to area farms and businesses.

COURSE CONTENT

Scientific and Social Implications

Leadership, Business Education & Career Success Organization of Living Systems

Animal Industries and Domestic Animal Production Comparative Animal Systems and Animal Genetics Animal Health and Nutrition

Plant Physiology

Plant Nutrition

Pests and Pest Management Soils Environmental and Energy Systems Natural Resources

Fundamentals

SPECIAL CLASS FEATURES

Opportunity to participate in Future Farmers of America

(FFA) Real-world experience

Co-op opportunities available

EMPLOYMENT SKILLS FOR THE FUTURE

Self-directed participation

Leadership and Teamwork

Critical thinking and problem solving

Automotive Technology

The Auto program follows the curriculum defined by the National Automotive Technician's Education Foundation (NATEF). The following areas are covered in the two-year program (two areas per year): Steering and Suspension and Electrical (2016-2017) Brakes and Electrical (2017-2018).

The steering and suspension portion of the curriculum covers steering systems. Skill development will focus on steering, suspension, and four-wheel alignment. Skill development in the brakes segment area will focus on drum, disc, hydraulic, power assist, and anti-lock brake systems. In the electrical component of the program, students will learn fundamentals and applications in automotive electrical, electronics, voltage, current, resistance, series and parallel circuits, magnetism, application of Ohm's Law, and wiring diagrams. Lighting systems, instruments, warning devices, horn, and other accessory circuits using wiring diagrams are covered, as well as skills in diagnosis, adjustment and repair of accessory and convenience circuits. The service area lab, used by the students, is equipped with up-to-date tools and equipment. This lab provides a real world setting where students practice technical skills used in an automotive repair facility.

COURSE CONTENT

- General Electrical Systems and Theory and Operation
- Battery Diagnosis and Service
- Starting and Charging Systems Diagnosis and Repair
- Lighting Systems and Horn and Wiper/Washer Diagnosis and Repair
- Gauges, Warning Devices Diagnosis and Repair
- Accessories Diagnosis and Repair
- General Brake Systems Diagnosis and Hydraulic Systems Diagnosis and
- Repair Drum and Disc Brake Diagnosis and Repair
- Power Assist Units Diagnosis and Repair
- Employability Skills and Industrial Safety
- Miscellaneous (Wheel Bearing, Parking Brakes, Electrical, etc.) diagnosis and Repair
- Electronic Brake, Traction and Stability Control Systems Diagnosis and Repair

SPECIAL CLASS FEATURES

- Preparation to take the ASE Student Certification
- test Real-world automotive service lab
- Co-op opportunities available
- Job shadow opportunities available
- Opportunity to earn College credit

EMPLOYMENT SKILLS FOR THE FUTURE

- Problem-solving and Critical Thinking
- Teamwork
- Basic auto repair strategies

Construction Trades

The Construction Trades course provides students a hands-on experience in the residential construction field. It will focus on the following areas: safety, tool use, methods of construction, foundation layout, wall and floor framing, roofing, stair construction, insulation, drywall, trim work, siding, door and window installation, shingling, and deck building. This class will address codes and inspections, blueprint reading, masonry, and other areas of construction. The hands-on building of the GI-TEC schoolhouse project gives students the skills to become employable in the construction field and/or continue in post-secondary education.

COURSE CONTENT

Construction Materials
Construction Tools and Equipment
Building Construction Design – blueprint, etc.
Site preparation and infrastructure
Common construction practices—concepts flooring, foundation, etc.
Residential Construction Techniques (Carpentry)
Green Technology Construction Techniques Safety, Health, and Environmental Industry Overview
Employability and Technology Skills
Heavy Equipment/Civil Construction Techniques
Construction Business Management

SPECIAL CLASS FEATURES

Knowledge of various construction careers Carpentry
Masonry Electrical Wiring Plumbing HVAC
Co-op opportunities available
Job shadow opportunities available
Senior math credit
Visual/Performing/Applied Arts
Credit Opportunity to earn College credit
Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYABILITY SKILLS FOR THE FUTURE

Teamwork
Problem-Solving/Troubleshooting
Critical Thinking
Blueprint reading
Basic construction techniques

Mechanical Drafting/CAD

Students will create plans that visually communicate how something functions or is to be constructed. This course utilizes visual problem solving and project planning for product development, architectural construction and/or other mechanical projects such as reverse engineering, product improvement, and mechanical assemblies. This course teaches entry-level job skills and prepares students for a career in Architecture, Landscaping or the Manufacturing industry.

COURSE CONTENT 2D

Drawing/CAD
Geometric Construction
Orthographic Projection
3D/Parametric Modeling
Dimensioning and Tolerancing
Supplemental Views
Architectural/Engineering Drawings
Manufacturing Process Engineering
Technology and Safety Engineering
Design Concepts Technical Materials
Research and Development
Applications Career Preparation and Employability

SPECIAL CLASS FEATURES

Computer-Aided Design (Auto CAD)
Collaborative work with other classes
Co-op opportunities available
Job shadow opportunities available
Opportunity to earn College credit
Senior math credit
Visual/Performing/Applied Arts Credit
Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

Customer Service
Troubleshooting
Creativity
Teamwork

Machine Trades

Machine Trades' students learn safety, manufacturing skills, and good work habits as they relate to the machine trades industry. Metal working theory and a variety of hand tools will be covered. Students will learn to operate engine lathes, vertical milling machines, drill presses, saws, and surface grinders. Other areas covered will be print reading, layout, measurement, math applications, and basic computer aided machining (CAM). Projects are designed to develop skills needed in the machine trades industry. Advanced students learn manufacturing processes, print reading, Geometric Dimensioning and Tolerance (GD&T), precision measurement, set ups, electrical discharge machine operations, tool and cutter grinding, maintenance of computer aided machining (CAM), computer-aided design (CAD), lock out/tag out, jig and fixture building, basic working of a die, and plastic mold building.

COURSE CONTENT

Metal Working Theory/Materials
Inspection and Measurement
Print Reading and GD&T Bench work
Occupational Skills/Work Habits
Saws, Drills, and Power Tools Maintenance and Set Up
Mill I/Lathe I
Manufacturing Processes
Advanced Milling/Turning/Grinding
CNC/CAD/CAM
Safety

SPECIAL CLASS FEATURES

Real-world lab
Co-op opportunities available
Job shadow opportunities available
Opportunity to earn college credit
Senior math credit
Visual/Performing/Applied Arts
Credit
Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

Critical Thinking and Problem-solving
Communication
Teamwork

Pre-Engineering/Mechatronics

Pre-Engineering/Mechatronics is a combination of Design Software (CAD), Electronics, Electricity, Robotics, Pneumatics, and Machining. Students will complete hands-on projects to learn automated manufacturing processes and prepare for various industrial careers and post-secondary options. This STEM (Science, Technology, Engineering, Mathematics) program will give students an introduction to manufacturing and the opportunity to design, develop, build, and test devices.

COURSE CONTENT

Systems Integration/Mechatronics System Design/Prototype/CADD
Electrical/Motor Controls/VFD/Servo/Sensor Driven Mechanical Control
Systems/Electrical Controls PLC/Diagnostics
Fluid Power/Pneumatics Robotics
Electronics/Sensors Manufacturing/Machining/CNC
Quality/Measurements Blueprint/Schematics/Drafting

SPECIAL CLASS FEATURES

Real-world lab experience
Co-op opportunities
available
Job shadow opportunities available
Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

Self-directed
participation Teamwork
skills
Critical thinking and problem solving

Small Engines Technology

In the Small Engine Technology course, students learn to repair small engines and train for entry-level employment in the field. Students learn to repair two-stroke and four-stroke engines, including ignition, carburetor, and exhaust systems. In addition, this class explores two and four-cycle high performance modifications. Students build team-working skills by collaborating on projects, developing troubleshooting techniques, and excellent customer service.

COURSE CONTENT

Basic two/four-stroke operation

Fuel Systems

Ignition Systems Equipment/Technology Measuring/Conversions

Electrical Systems

Drive System

Chassis Systems Maintenance

Troubleshooting

Employability/Professional Skills Safety

SPECIAL CLASS FEATURES

Real-world experience on two-stroke and four-stroke engines Co-op opportunities available

Job shadow opportunities available

Senior math credit

Opportunity to earn College credit

EMPLOYMENT SKILLS FOR THE FUTURE

Customer

Service

Troubleshooting

Teamwork

Welding

This Welding class is designed for the student who has a genuine interest in learning welding for their future occupation. Many areas of welding including oxyacetylene, electric arc, mig, and tig, manual and automatic flame cutting are taught. This program provides students with hands on experience in a real-world lab. Students learn the fundamentals of welding theory, use of related hand tools and equipment and perform a variety of welding techniques. Class projects include fabrication and repair work. Welding students are involved in layout, inspection, measurement and design.

COURSE CONTENT

Occupational Orientation Safety and Health for Welders
Shielded Metal Arc Welding (SMAW)
Manual OxyFuel Gas Cutting (OFC)
Flux Cored Arc Welding (FCAW)
Drawing and Welding Symbols
Gas Metal Arc Welding (GMAW)
Mechanized OxyFuel Gas Cutting (OFC)
Gas Tungsten Arc Welding (GTAW)
Plasma Arc Cutting (PAC)
Weld Inspection and Testing Carbon Arc Cutting (CAC-A)

SPECIAL CLASS FEATURES

Real-world experience
Co-op opportunities available
Job shadow opportunities available Senior math credit Visual/Performing/Applied
Arts Credit Opportunity to earn College credit
Opportunity to participate in MITES (Michigan Industrial and Technology Education Society)

EMPLOYMENT SKILLS FOR THE FUTURE

Communication
Detail-oriented Teamwork
Safety knowledge Creativity
Critical Thinking

Cybersecurity

Cybersecurity is about communicating, managing and being creative in a digital world. Put your skills to work and learn how to protect business assets, networks, systems, and data from criminals or unauthorized users. Learn the cybersecurity fundamentals including threat detection, digital forensics, network infrastructure, ethical hacking, and risk. Understand the importance of confidentiality, integrity and accessibility for every business and how it applies to cybersecurity. With Cybersecurity being one of the top 20 fastest growing fields in the county, it's time to get involved!

(Cybersecurity is held at the GI-TEC Mt. Pleasant Campus).