



GULL LAKE HIGH SCHOOL COURSE CURRICULUM GUIDE 2022-2023

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Gull Lake High School

Students and Parents,

The selection of an academic program is an extremely important process in a student's school career. We have found that careful planning by students and parents, linked with knowledgeable guidance from counselors and teachers, have a positive effect upon academic success.

This course curriculum guide is designed to serve as a guide to planning individual programs of study at Gull Lake High School. All students will create an Educational Development Plan (EDP) based on his or her career cluster. Educational Development Plans will be reviewed and updated annually.

We strongly encourage the continued involvement of parents in the process of academic planning for each school year. The best choices are made by students and parents who have read this information carefully. Each academic plan should take into consideration the graduation requirements and a student's interests, abilities, and aspirations.

Best wishes for a successful school year!!

GLHS Administrators, Counselors, and Teachers

Mr. Don Eastman, Principal
Mr. Kris Simms, Assistant Principal

Mrs. Diana Kwiatkowski, Counselor, Last Name Beginning With A-G 9th, 10th, 11th, and 12th Grade
Mrs. Katie Soule, Counselor, Last Name Beginning With H-O 9th, 10th, and 11th and 12th Grade
Ms. Diana Bushouse, Counselor, Last Name Beginning With P-Z 9th, 10th, 11th and 12th Grade

Mrs. Tammy Geik, Special Education Teacher Consultant
Mrs. Allison Ericks, Social Worker

The mission of
Gull Lake Community Schools
is to educate every child
to achieve his/her full potential.

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Academic & Career Planning

Senior Checklist:

- ☐ Check to make sure you have all of the credits necessary for graduation and you are enrolled in the correct courses for graduation.
- ☐ Continue to improve your academic grades and overall grade point average.
- ☐ Enroll in classes that are academically challenging and will prepare you for your career path.
- ☐ Discuss postsecondary plans with your parents, counselors, and teachers.
- ☐ Obtain and complete applications for two year schools, four year schools, and technical institutes.
- ☐ Complete the Student Information Sheet to request letters of recommendation.
- ☐ Request your transcript(s) for scholarship and college applications using Parchment.com.
- ☐ Retake the ACT/SAT, if necessary, or take a college placement test to improve your college admissions test scores. Request your official scores be sent to colleges/universities.
- ☐ Check all available sources for scholarships. These would include the Gull Lake and Kalamazoo Foundation websites, website searches, individual college websites, and the GLHS Guidance web page.
- ☐ Complete financial aid forms (FAFSA, CSS Profile) beginning on October 1st. Attend a financial aid information night and a FAFSA completion workshop.
- ☐ Take the ASVAB assessment, if interested in military options.
- ☐ Register for A.P. Exams and request that your AP scores be sent to your intended college.

Junior Checklist:

- ☐ Continue to discuss your career goals, your EDP, and course selections with your counselor, parents, and teachers.
- ☐ Review your transcript, credits needed for graduation and GPA. Continue to improve your academic performance.
- ☐ Continue to explore your career and post-secondary opportunities.
- ☐ Meet with visiting representatives at GLHS from colleges, military, and technical training institutes.
- ☐ Attend area college fairs and financial aid informational events.
- ☐ Plan for spring and summer college campus visits.
- ☐ Do your best on the PSAT/NMSQT in the fall of your junior year.
- ☐ Stay involved in extracurricular and volunteer activities. These experiences are viewed favorably by employers and colleges.
- ☐ Start a file or folder pertaining to post-secondary options that you would like to explore.
- ☐ Enroll in the Test Prep Course at GLHS to prepare for the SAT during the spring of your junior year.
A college admission test score is required by nearly all colleges and universities for admission and placement into college level courses.
- ☐ Begin exploring financial aid and scholarship opportunities. Complete an online scholarship search.
- ☐ Explore CTE, EFA, Dual Enrollment, GL Virtual, Early Middle College, and Co-Op options.
- ☐ Register for AP Exams.
- ☐ Utilize Xello (formerly Career Cruising) to document academic achievements, volunteerism, extra curricular and work experiences.
- ☐ Take the ASVAB assessment, if interested in military options.

Academic & Career Planning

Sophomore Checklist:

- ☐ Continue to attend to your studies so you have the highest GPA possible and continue to monitor your grades through StudentVue.
- ☐ Remember the importance of being a well-rounded individual. Work toward leadership positions in the activities that you like best, become involved in community service and/or other volunteer activities, and investigate summer educational programs, volunteer activities, or enrichment opportunities.
- ☐ Review and update your EDP and course selections to reflect your career path. Continue to develop and update your Xello (formerly Career Cruising) assessments and plans.
- ☐ Select challenging courses that will prepare you for future career options. If interested, explore CTE, EFA, and Advanced Placement course offerings. Explore elective and enrichment classes as well.
- ☐ If you are interested in dual enrollment or Co-op during the junior year you should meet with your counselor.
If you are interested in participating in Early College you must attend an informational meeting and submit the Early College application prior to the first day of your junior year.
- ☐ Begin thinking about post-secondary education and training opportunities (community college, university, military, technical, on-the-job) needed for your career of interest through on-site visits, websites, college nights and career fairs.
- ☐ Take the ASVAB assessment, if interested in military options.

Freshman Checklist:

- ☐ Explore the various career pathways and design your high school Educational Development Plan. Explore future options for CTE, EFA, Early College, and dual enrollment.
- ☐ Participate in career exploration activities. Discuss possible careers and postsecondary education and training with your teachers, counselors, and parents.
- ☐ Make sure you are enrolled in courses that prepare you for meeting your future plans.
- ☐ Participate in extracurricular activities (school and non-school sponsored) including volunteer and community service programs.
- ☐ You will begin developing your high school transcript. Your transcript is an official record of the classes that you enroll in, the grades that you receive, and your grade point average. Colleges and universities, as well as future employers, will be interested in this information.
- ☐ Attend to your studies so you have the highest GPA possible and continue to monitor your grades through StudentVue. Seek additional help with staff and after-school supports, if needed.

Learning is the only thing the mind never exhausts, never fears, and never regrets. ~ Leonardo DaVinci

GLHS Graduation Requirements

28 total credits required to graduate

By Department:

Business	1 credit	
English Language Arts	4 credits	Grade level aligned courses
Mathematics	4 credits	Algebra Plane Geometry Data Analysis & Algebra 2 Senior Year Math/Math Related Course
Physical Education	.5 credit	Introduction to Fitness
Health	.5 credit	
Visual, Performing, & Applied Arts	1 credit	(See course listing on p.12)
Science	3 credits	Biology Physics or Chemistry Elective science course(s)
Social Studies	3.5 credits	Civics US History and Geography World History and Geography Economics
World Language	2 credits	Must be 2 levels of the same language

*The capacity to learn is a gift; the ability to learn is a skill;
the willingness to learn is a choice. ~ Brian Herbert*

Additional Information Regarding Courses and Credits

1. A student can earn credit through Gull Lake courses including affiliated programs through CTE, EFA, ATYP, KAMSC, GL Virtual, GL Early College, and/or dual enrollment. Students may take additional courses outside of the school day but must pay for those classes (see note #3). The maximum number of credits the student can earn outside of Gull Lake High School to apply towards high school graduation is two per year. Students registering for courses outside of Gull Lake (excluding CTE, EFA, ATYP, KAMSC) must have prior administrative/counselor approval in writing.

2. Gull Lake High School students **MUST** maintain a full schedule every year **THROUGH THE END OF THEIR SENIOR YEAR**. EFA evening enrichment classes are in addition to a student's full schedule.

3. A student who needs to earn additional credits in order to graduate on time (credit retrieval) must seek that credit through an accredited program. Enrollment in a program must be approved by high school administration and counseling staff **PRIOR** to the student enrolling in any course(s). A student can earn a **MAXIMUM OF TWO CREDITS** per academic year for the purpose of credit retrieval. The student is responsible for any and all costs of these courses. All credit retrieval course work will be for credit only. A student who returns to Gull Lake for a fifth year to complete his/her credit requirements **AFTER** his/her class has graduated has the option of taking a reduced schedule.

4. Students who take non-AP ATYP courses will be granted **ONE** credit per course. ATYP math courses and English Language Arts courses are in line with GLHS and the Michigan Merit Curriculum and are not weighted courses. ATYP courses equivalent to College Board Advanced Placement courses will be granted 1.5 credits and will be weighted.

5. A high school course taken in middle school will be listed on a student's high school transcript if the student has met the Michigan Merit Curriculum expectations. Credit received will be counted toward graduation and can fulfill departmental requirements. No honor points will be given and a grade will not be calculated into the high school G.P.A. and class rank.

6. The Board of Education has established weighting of AP, designated KAMSC courses, and approved Dual Enrollment classes by adding .35 honor points per one-half (.5) credit to the final grade with the prior approval of the Superintendent or designee. AP courses completed at a previous high school will be weighted .35 honor points per .5 credit. Honors courses will not be weighted.

7. Along with the course description, a homework rating is listed. They are defined by:

Low: More in class work time than homework

Medium: Expect homework; this course will require extra study time at home

High: Expect homework; this course will require extra study time at home daily

Standard codes are defined as:

MMC known as Michigan Merit Curriculum: All GLHS courses designated as MMC have met content expectations required for graduation as enacted by the State of Michigan.

Common Core: All GLHS courses designated as Common Core meet the content expectations consistent with education standards across the United States.

College Board: All GLHS courses designated as AP (Advanced Placement) are College Board approved. This means colleges may grant placement and course credit to students who obtain certain scores on the AP examinations.

NCAA: All GLHS courses designated as NCAA have been reviewed and approved by the National Collegiate Athletic Association (NCAA) Eligibility Center.

Testing Out

P.A. Act 335, Section 1279 B of the State Code indicates that any high school student may request to test out of any course offered. Students must exhibit mastery of the course content by attaining a grade of no less than a C+ (78%) on a comprehensive exam and/or be required to demonstrate mastery through the basic assessment used in the course. This may consist of a portfolio, a performance, a paper, a project or presentation.

Testing out will be counted toward fulfillment of a prerequisite and/or for placement in a subject area and sequence. A "TO" for testing out will be designated on the transcript, but **NO CREDIT** will be granted for testing out. They will not be counted toward the required number of credits needed for graduation and will not be used to determine a student's GPA. Students may not receive credit thereafter for taking a lower course sequence for that subject area.

All applicants who request to test out of a course(s) for the upcoming school year, must make a request to the Guidance Office by JUNE 1st of the current school year. Testing out dates will be conducted during orientation week before school starts.

Students will be contacted about material pick up and testing dates. Letters and emails will be sent to parents and students in the summer providing testing out information. If you have questions contact your counselor.

Michigan Merit Exam

All students are required to participate in the Michigan Merit Exam (MME) in the spring of their junior year. These scores will be included on the student's transcript as part of their permanent record. The Michigan Merit Examination (MME) assesses students in grade 11 and eligible students in grade 12 based on Michigan high school standards. It is administered each spring, and consists of three components:

- College Board SAT
- WorkKeys® job skills assessments in reading, mathematics, and "locating information"
- Michigan developed Science and Social Studies MSTEP

For additional information go to www.michigan.gov/mde.

Students in grade 9 and 10 take the PSAT 8/9 (grade 9 only) and PSAT 10 as part of high school state assessments.

GLHS offers a .5 credit Test Prep course for juniors during the 2nd trimester. For additional information, see the course description on page 12.

Preparation for College Admissions

Applicants to colleges must qualify for admission through a combination of the following: scholastic record, academic rank in class, extracurricular activities, essay and ACT/SAT. Students should check on-line for specific information concerning admission requirements. College planning should begin as early as possible in a student's high school career so that students and parents will be aware of all necessary requirements for acceptance. Colleges place great emphasis upon initiative, academic rigor, and may consider such factors as character, personality, civic responsibility, and specialized talents and skills.

Since admission to many colleges is becoming increasingly competitive, students must expect to do intensive work throughout their high school career or they may experience difficulty in gaining admission to the college of their choice. Colleges require a copy of the student's academic record (transcript) from grades nine through twelve.

The State universities of Michigan have agreed that to be eligible for regular admission to a four-year degree program, a high school student should successfully complete the following courses in high school:

English- four credits required.

Mathematics- four credits required.

Biological/Physical Sciences-three credits required; one credit of biological science and one credit of Physics/Chemistry.

History and Social Sciences- three credits required; one credit of US History and one credit of World History strongly recommended.

Prospective students are also encouraged to complete courses in the following areas:

World Language- two credits are strongly recommended and may be REQUIRED by many colleges and universities.

Fine and Performing Arts- two credits strongly recommended; students may be asked to present a portfolio or audition.

Computer Literacy- one credit of hands-on experience in using computers strongly recommended.

NCAA Guidelines

Students who are considering participation in athletics at the collegiate level need to be aware of National Collegiate Athletic Association (NCAA) requirements and guidelines. *POTENTIAL ATHLETES ARE ADVISED TO CHECK WITH THE ATHLETIC DIRECTOR FOR DETAILED INFORMATION ON THESE RULES DURING JUNIOR YEAR.* The NCAA has set specific minimum standards, in regards to curriculum and academic performance for athletes to participate in collegiate athletics their freshman year. The updated list of approved courses offered at GLHS can be viewed on the NCAA Eligibility website.

The student must register with the NCAA's Eligibility Center during their junior year in high school. Students must also have their amateur status certified by the NCAA Eligibility Center before representing a collegiate institution in competition. Registration needs to be completed online at www.ncaaeligibilitycenter.org

College Board/AP/SAT/ACT

The Advanced Placement (AP) Program is a cooperative educational endeavor of secondary schools, colleges, and the College Board. AP courses are intended to be the equivalent of college-level freshman courses and to prepare students for the AP exams which are offered in May. A grade earned in an AP course will be weighted .35 honor points per .5 credit. High School students taking AP exams may earn college credit for satisfactory performance on AP exams depending on which college or university the student will attend. For more information on college credit visit <https://apstudents.collegeboard.org/getting-credit-placement/search-policies>

Gull Lake High School offers AP courses in English, Mathematics, Science, and Social Studies.

AP courses completed at a previous high school will be weighted .35 honor points per .5 credit. Honors courses will not be weighted.

All juniors will take the SAT as part of the Michigan Merit Exam in the spring. In addition, highly selective colleges/universities may require students to take the SAT subject tests. Contact the college admission office of interest for specific requirements. A student may choose to take the ACT as an additional college admissions test. For more information, see your counselor or go to www.actstudent.org or www.collegeboard.org.

Gull Lake Virtual Partnership Learning

A student may elect to take an online virtual course as part of their high school curriculum. These courses may be selected from our local course catalog (Gull Lake Virtual Partnership) or through the options available in the state-wide online course catalog.

Gull Lake Virtual Partnership (GLVP) is a school program available to all Gull Lake Community Schools students in grades K-12. GLVP strives to offer innovative, meaningful and personalized learning opportunities for students to grow and thrive as they continue to discover their own unique talents. GLVP courses offer students the chance to strengthen their skills and abilities as they move along their educational pathways.

1. The student must receive approval from the counselor no later than one trimester before desired enrollment period.
2. Traditional students seeking a GLHS diploma are limited to two (2) online courses per trimester.
3. Virtual courses will be included on the student's transcript noting credit and grade received and will be calculated in the GPA.
4. Students will be assigned to a virtual lab with a mentor teacher. The mentor teacher offers support on a daily basis and feedback regarding course progress.
5. Students are required to meet the expectations of weekly check-ins and count day requirements.
6. Students will be expected to work in the lab during the scheduled class period. A student's request to work off campus may be granted based on successful progress within the course. The ability to work off campus may be revoked by the school if student is not passing.
7. Students will have a highly qualified content appropriate teacher for the virtual course. The teacher provides content support, course feedback, and grades for the student.
8. To view the list of approved NCAA online courses, visit the NCAA Eligibility Center and enter your virtual school code. If you have questions, please see the athletic director or your counselor. GLVP courses are noted accordingly in the course catalog if they are NCAA approved.

Dual Enrollment

A student may further their education as part of their high school curriculum at a post-secondary institution with assistance in tuition. To dual enroll for the upcoming school year, it is critical that students submit paperwork to the Guidance Office no later than the last day of school. To qualify, a student must fulfill all of the following requirements:

1. The student must complete an application to the college and submit qualifying test scores to participate.
2. The student must be enrolled in both the school district and post-secondary institution during the local school district's regular academic year.
3. It is recommended that a student enroll in a minimum of TWO college academic courses over the school year. (One fall and one winter semester)
4. The student must attend an informational meeting, meet with a college academic advisor, meet with their high school counselor, attend an on campus orientation and complete the necessary paperwork BEFORE registering for their college courses.
5. Freshmen level college courses will not be considered for weighting. Upper level college courses will be considered for weighting on an individual review basis, upon request. (Grade weighting is NOT automatic.)
6. College coursework will be added to the transcript unless otherwise indicated. NOTE: The student should be aware that some universities will not grant college credit for dual enrollment courses. If you have questions about this contact your college of interest.
7. College course work taken in the summer is not considered dual enrollment. Summer course work may be added to a student's transcript for credit only. Tuition and fees are the responsibility of the student for summer classes.
8. The student must pay any tuition, fees, or other costs that are ABOVE the amount allotted under the PSEO Act. This amount typically covers a 3 credit community college course; it will not cover the full cost of a four year university 3 credit course





Early College Program Overview

Overview

Gull Lake Community Schools Early College (GLEC) is a five-year high school program, combining the best of the high school and an early college experience. Gull Lake Early College will offer both online and face-to face educational instruction to enable students to earn their high school diploma and college credits up to an Associate's Degree. Students benefit from a supportive educational environment in which they will receive support services to assist them in their transition from high school to college. Students will have the opportunity to enroll in courses designed to develop and enhance their academic preparation skills, study skills and social maturity skills, thus providing them with the tools they need to make a successful transition to post-secondary education.

Goals of Gull Lake Early College

- Increase the amount of Gull Lake Community Schools students enrolling in college.
- Increase the number of GLCS students completing college.
- Increase postsecondary success for GLCS students through college knowledge and supports.
- Assist with the financial burden of college costs to families.
- Expand high school opportunities based on students' individual needs and interests.

Program Design

Students in the Gull Lake Early College Program make a gradual transition from traditional high school to full time college students over the course of three years. They begin the transition by blending high school courses and college courses in 11th grade and continue to increase the blend until they are full time college students in grade 13. The end result is for students to graduate at the end of their fifth year of high school with a high school diploma and an associate's degree, an occupational certificate, 60+ transferable college credits, or a MEMCA Certificate.

Highlights

- Gull Lake Early College partners with Kalamazoo Valley Community College, Kellogg Community College, and Western Michigan University.
- The cost of tuition, course materials, and fees is paid for (up to an allocated amount) by Gull Lake Community Schools.
- Gull Lake Early College students have the opportunity to gain two years worth of college credits just one year after their original high school graduation date, allowing them to enter the workforce or move on to a bachelor's degree in a shorter amount of time.

Enrollment Process

1. Students who are considering the Early College Program should be willing, motivated, and up for the challenge to perform successfully in coursework at both the high school and college level.
2. Applications are accepted during the 10th grade year from February 1– August 31.
3. Students MUST be accepted into the Early College Program before beginning their junior year .

Questions

Contact your student's school counselor or mentor for more information.

Departments and Individual Course Descriptions

COURSE OFFERINGS

Final courses offered in the master schedule are based upon student course requests and available staff to teach those courses. Therefore, we ask that all students choose their courses carefully, plan ahead and list an alternative course in case a course is not offered or there is a scheduling conflict.

Seminar

Course Number: #0009 (Freshmen)	#0011 (Junior)	Credit: .25
#0010 (Sophomore)	#0012 (Senior)	

Seminar is a year long course required of all students who attend Gull Lake High School. Seminar meets weekly for 40 minutes. Seminar sessions provide students the opportunity for academic support and assistance. Appropriate use of technology is expected of students during this time. Beyond this, students will also be encouraged to select a topic of their choice to explore in depth using seminar and GLHS resources. In addition, this time will be available for the use of the media center, computer lab, tutoring, college and military representatives, etc.

Test Prep

Course Number: #1001 Credit: .5
Grades: 11 Homework Rating: Low
Prerequisite: None

This class is designed to make students more comfortable with the features and format of a college entrance exam. Students will learn test-taking strategies and time-management skills. They will review math, English, scientific methods and models, reading comprehension strategies, language skills, writing and grammar. Students will be connected with Khan Academy and use previous test scores for test prep. Students will rotate six weeks in an English course and six weeks in a math course.

The Visual, Performing, and Applied Arts requirement may be earned through the successful completion of one (1) credit in the following courses:

GLHS

- Beginning Guitar
- Choir
- Computer Science/Software Engineering
- Computer Science/Research and Development
- Concert Band
- Creative Writing
- Creative Development
- Cyber Security
- Debate
- Digital Media, Art & Web Design
- Drawing and Painting I
- Entrepreneurs and Business Leaders
- Improvisation and Sketch Comedy
- Intro to Acting
- Intro to Theatre
- Jazz in America
- Marching Band
- Marketing
- Multimedia and Reporting
- Newspaper Publications
- Oral Traditions
- Principles of Art and Design
- Sculpture
- Speech
- Stagecraft
- Studio Art
- Symphonic Band
- Teacher Academy
- Technical Drawing I,II
- Woodworking Technology I, Advanced
- Yearbook Publications

CTE

Art and Design Career Skills
Computerized Manufacturing
Construction Trades
Cosmetology/Barbering
Culinary Arts
Electronics and Robotics
Engineering in Wood Technology
Mechatronics
Media Production
Welding

KAMSC

Information Technology
Computer Studies

EFA

3D Computer Animation and Game Design
Advanced Music Theatre
Advanced Creative Writing Online
Advanced Visual Art Studio
Beginning Dance
Comics, Manga, and Novels Online
Creative Writing Online
Dance/Health/PE
Digital Photo Art
Digital Studio Art
Film and Video Arts
Hip Hop 180
Intermediate Dance
KVCC Media Arts
Music Studio
Theatre Improv and Scriptwriting
Visual Art Exploration

NOTE: THE SECOND WORLD LANGUAGE CREDIT MAY BE OPTED OUT FOR AN ADDITIONAL ONE CREDIT OF VISUAL PERFORMING APPLIED ARTS OR SUCCESSFUL COMPLETION OF A CTE/EFA PROGRAM.

Applied Technology

NOTE: STUDENTS MUST BE AWARE THAT IN SELECTING THESE COURSES, ONLY INEXPENSIVE MATERIALS WILL BE FURNISHED. STUDENTS MAY PURCHASE WOOD FROM THE SCHOOL TO BUILD THEIR PROJECTS OR THEY MAY PURCHASE THEIR MATERIALS SOMEWHERE ELSE AND BRING THEM IN. MATERIALS PURCHASED FROM THE SCHOOL MUST BE PAID FOR AT THE COMPLETION OF EACH PROJECT.

Woodworking Technology I

Course Number: 5010
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This course is designed for students to develop fundamental operational skills, learn skills of machine woodworking tools, and gain necessary technical information for related woodworking operations. Emphasis will be placed on basic furniture construction with cabinet-making being introduced on a simplified scale. The use and skills of hand tools are also included to supplement power tool operations. Students will choose two class projects from a teacher selected list.

Advanced Woodworking Technology

Course Number: 5030
Grades: 10-12
Prerequisite: Woodworking Technology I and teacher recommendation

Credit: .5
Homework Rating: Low

This course is designed for students to further develop fundamental operational skills, learn skills of machine woodworking tools, and gain necessary technical information for related woodworking operations. Emphasis will be placed on basic furniture construction. Students will be able to pick a project of their choosing which will further their woodworking abilities. THIS COURSE MAY BE REPEATED WITH TEACHER RECOMMENDATION.

Technical Drawing I

Course Number: 5040
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This course is a must for students who are anticipating a career in engineering, technical illustrations, design, drafting, CAD, the trades or any of many technical fields. It is also beneficial for any student learning to visualize, plan and layout materials and drawings. Accuracy will be stressed. Students will learn to draw orthographic views, sectional views, pictorials, detail and assemble drawings. Class activity is centered around board drawing with CAD being introduced on a simplified scale.

Technical Drawing II (CAD)

Course Number: 505A & 505B
Grades: 10-12
Prerequisite: Technical Drawing I

Credit: 1
Homework Rating: Medium

This course is a must for students who are anticipating a career in engineering, technical illustrations, design, drafting, CAD, the trades or any of many technical fields. It is also beneficial for any student learning to visualize, plan and layout materials and drawings. Students will learn to draw orthographic views, sectional views, pictorials, detail and assemble drawings. Class activity is centered around CAD drawing.

Business and Technology

NOTE: STUDENTS WHO COMPLETE ACCOUNTING, BUSINESS MANAGEMENT AND ADMINISTRATION. MARKETING, WEB DESIGN, AND COMPUTER SCIENCE & SOFTWARE ENGINEERING WITH A "B" OR BETTER MAY BE ELIGIBLE FOR ARTICULATED (COLLEGE) CREDIT AT SELECT POST SECONDARY INSTITUTIONS. CHECK WITH YOUR BUSINESS TEACHER FOR MORE INFORMATION.

GLHS Business & Technology			
Class	CTE	GL Graduation Credit	College Articulated Credit
Introduction to Business		BUS	
Introduction to Computer Science		BUS	
College and Career Readiness		BUS	
Computer Science & Software Engineering	CTE	BUS, VPAA	Davenport University
Advanced Computer Science	CTE	BUS	
Computer Science Independent Cert.		BUS, VPAA	
Research & Development	CTE	BUS, VPAA	
Cyber Security	CTE	BUS, VPAA	
Advanced Cyber Security Essentials	CTE	BUS, VPAA	
Digital Media, Art & Web Design	CTE	BUS, VPAA	Baker College, KVCC, Davenport University
Accounting	CTE	BUS, MATH	KVCC, Baker, Davenport University
Marketing	CTE	BUS, MATH, VPAA	KVCC, Baker College, Davenport University
Business & Technology Capstone	CTE	BUS, VPAA	
Entrepreneurs and Business Leaders (formerly BMA)	CTE	BUS, VPAA, MATH	KVCC, Baker College, Davenport University, Ferris State University
Advanced Business: School Store Mgmt.		BUS, VPAA	
Personal Finance		BUS, MATH	
****Students may partially or fully substitute 1 World Language credit with an MDE-approved CTE program or by completing an additional 1.0 credit of a Visual or Performing Arts course****			
CTE = Career & Technical Education BUS = Business VPAA = Visual Performing & Applied Arts MATH = Math Related			

Digital Media, Art & Web Design (CTE)

Course Number: 103A & 103B

Grades: 10-12

Prerequisite: None

Credit: 1

Homework Rating: Low

This course will allow students to work on industry's standards to build functional websites for multiple platforms using Adobe CS6 Software. Students will focus on designing for businesses or clients that want a professional website. Students will be introduced to graphic design, image editing, creating animations, and artistic design for the internet. Website development, HTML 5 programming, publishing and maintaining websites with networks is also a part of the learning experience.

Accounting (CTE)

Course Number: 105A & 105B

Grades: 10-12

Prerequisite: Introduction to Business recommended

Credit: 1

Homework Rating: Medium

This course is recommended for students who would like to major in business as their post secondary choice, want to own their own business, or an overall view of math concepts for businesses or personal transactions. Students will learn the accounting cycle, maintain financial records for single ownership, partnerships, and corporations. Instruction will include journalizing and positing basic accounting transactions, buying and selling goods or services, and payroll functions. In addition to the accounting concepts, students will learn Microsoft Excel software with the opportunity to become Microsoft Office Specialist certified. (MOS) This course is instructed with Cengage Mine Tap which are online working papers, textbooks, and guided activities; therefore this course is offered as a virtual or seated class. THIS COURSE HAS AN ADVANCE LEVEL THAT CAN BE TAKEN AS AN INDEPENDENT STUDY WITH TEACHER RECOMMENDATION.

Introduction to Business

Course Number: 1070

Grades: 9-10

Prerequisite: None

Credit: .5

Homework Rating: Low

This course provides a full range of subject matter designed to give an overview of businesses and how the government and consumers can affect business activities. Students will learn the importance of the economic activity, social responsibilities, and global decisions that a business encounters. The course also includes topics and activities within business structures, entrepreneurship, marketing, management, financial records, and business productivity.

Career and College Readiness

Course Number: 1103

Grades: 10-11

Prerequisite: None

Credit: .5

Homework Rating: Low

This course is designed to develop and improve the students learning styles and test taking strategies. In addition, students will perform career exploration through Xello (formerly Career Cruising), aptitude testing, and virtual job searching with guest speakers from all career pathways. College searching and financial aid assistance as well as other post-secondary options will be explored and students will develop their career readiness and employability skills with resume creation and interview experience. This course is highly recommended for the Early College Student.

Entrepreneurs and Business Leaders (CTE)

Course Number: 109A & 109B

Grades: 10-12

Prerequisite: Introduction to Business recommended

Credit: 1

Homework Rating: Medium

Students will have full exposure to advanced aspects in the operations and applications within a business. There is a more in depth look at how business activities are developed on a daily basis, employability skills, workplace ethics, and human relations in the business environment. Additional topics include International Business, Business Management and Leadership, Business Planning, Project Management, Financial Analysis, and Data Management and Administration. This course allows students to be involved in many aspects of businesses and experiencing them through field trips, job shadows, and associations like Junior Achievement and DECA. Opportunities to earn Microsoft Office Specialist Certifications (MOS) in Word and PowerPoint are also offered.

Marketing (CTE)

Course Number: 111A & 111B

Grades: 10-12

Prerequisite: Introduction to Business recommended

Credit: 1

Homework Rating: Medium

This course is designed to provide students with an understanding of the principles of Marketing. There will be a focus on the management of the marketing activities and how marketing relates to overall organizational functioning, including the management of exchange processes between business units and consumers. It will include topics such as product development, pricing strategies, promotional advertising, marketing strategies, and finally product distribution. Additionally, the course will provide opportunities for students to participate in the business and marketing student club DECA.

Business and Technology Capstone (CTE)

Course Number: 1105

Credit: .5-1.5

Grades: 11-12

Homework Rating: Low

Prerequisite: Any related CTE course and Teacher Recommendation

This is structured as a work-based learning experience that will be designated as an independent study course. The student will choose an area of interest in the business sector and expand their understanding through course curriculum and real work experience. Projects and business curriculum will be assigned throughout the course. Examples are, but not limited to: *Sports Marketing*- work with our Athletic Department on broadcasting and promoting our Gull Lake events. *School-based Store*- operate and manage a retail store to peers and the community.

Introduction to Computer Science (CTE)

Course Number: 1101

Credit: .5

Grades: 9-12

Homework Rating: Low

Prerequisite: None

Introduction to Computer Science is an excellent entry into the computer science world. Students will explore career options as a Computer Scientist. Dive into the world of programming using the Python text-based programming language. Edit images using the Digital Design application GIMP, Graphic Image Manipulation Program. Design and create a short film using software to produce, edit and finalize a featured film. While learning these 21st century skills Computer Scientists learn the importance of File Management. Lastly, students will build an electronic portfolio showcasing all their amazing new talents to share with possible employers, university, and IT professionals.

Computer Science Software Engineering (CTE)

Course Number: 1102A & 1102B

Credit: 1.0

Grades: 9-12

Homework Rating: Low

Prerequisite: Introduction to Computer Science or teacher recommendation

Computer Science and Software Engineering (CSSE) is the second course available for high school students within the Computer Science pathway. CSSE will focus on learning software applications that software developers and IT professionals use in their jobs everyday. The course evolves very rapidly to keep up with industry and Career & Technical Education (CTE) standards. The course begins by reinforcing File Management for large projects by downloading, installing and preparing a Linux Ubuntu Virtual Environment for training purposes. Students use this Virtual Operating System to grow and learn their skills in installing new software, updating operating systems, and creating backups. Students will then use applications that Industry IT Professionals use on a daily basis such as GitHub, Python Integrated Development Environments (IDE), and Software Development Kits (SDK's) to program Drones through a mid air course, Robots through a quest, and Arduino Microprocessors to accept input from an array of sensors. Making mistakes is highly welcome.

Advanced Computer Science (CTE)

Course Number: 1107A & 1107B

Credit: 1.0

Grades: 10-12

Homework Rating: Low

Prerequisite: Computer Science Software Engineering

Advanced Computer Science focuses on further developing computational thinking skills through the medium of Android Application development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, JavaTM programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases to create innovative, Google Play Store distributable Apps for phones, Chromebooks, and tablets.

Computer Science: Research and Development

Course Number: 1106

Credit: .5

Grades: 9-12

Homework Rating: Medium

Prerequisite: Computer Science Software Engineering

Students will use concepts taught & learned through multiple sources including previous computer science classes, self-taught web based applications, personal life experiences, passion and peers to further their education in a collaborative team setting. Students will be encouraged to use curriculum from Science, Technology, Engineering and Mathematics (STEM) classes to complete projects of your choice, projects you have always wanted to complete but didn't have the time nor place. Teams will work through three stages of their Research & Development; Implementation Planning, Community Pitch and Final Presentation. Weekly blog reflections will be used to share experiences as the chosen project progresses. Lastly, students will showcase their Research & Development to peers, administrators, family, business & industry through an Innovation Gallery Walk held in May of each year. Students can take this course, as many times as one wishes, in different trimesters, for whenever it fits in your schedule, you can be part of this amazing learning experience. Warning - innovation will be happening!!!!

Cyber Security

Course Number: 1108A & 1108B

Credit: 1.0

Grades: 10-12

Homework Rating: Medium

Prerequisite: Computer Science & Software Engineering

Do you want to be a Cyber Warrior? Are you familiar with computer systems? Are you excited about learning how to hack and defend against cyber attacks? Then cyber security is the course for you! The curriculum is designed to prepare students with a solid foundation in Cyber Security, arming them with the knowledge, skills, and abilities necessary to pursue a career in the cyber security industry. The curriculum will provide courses and practice labs in different subject areas such as: Hardening Operating Systems, Hardening Networking Switches & Routers, and lastly, Cloud Computing. In addition, Cyber Security students will compete in the National Cyber Patriot competitions to put into practice their obtained knowledge, skills, abilities, and real life scenarios. Cyber Security students with strong work ethics and teacher approval can take the next course, Advanced Cybersecurity Essentials (ACE) to gain certifications making them marketable to Universities or the World of Work.

Advanced Cyber Security Essentials (CTE)

Course Number: 1109A, 1109B & 1109C

Credit: 1.5

Grades: 11-12

Homework Rating: Medium

Prerequisite: Cyber Security and Teacher Approval

Backed by professionals from Strykers Cybersecurity Division students will work independently on gaining certifications in the pathway of their choosing related to Cybersecurity. These paths include, but are not limited to, Cloud Computing, Network Defense Essentials, Ethical Hacking Essentials, and Digital Forensics Essentials. Upon completion of these highly sought after Certifications students qualify to apply for an Internship with Strykers Cybersecurity Division or other local participating companies. Are you ready for the future as a Cybersecurity Professional? It begins here and now!

Cooperative Education (Co-op)

Course Number: 114A, 114B, & 114C

Credit: .5

Grades: 11-12

Prerequisite: Successful completion of 50% of an CTE related course prior to being eligible for Co-op and continued enrollment in CTE. Students are not to be officially enrolled in co-op until the co-op coordinator has approved their application and job site. NOTE: An attendance audit will be completed at the time of application and will be monitored regularly.

Cooperative Education is an opportunity for students to "earn while they learn." Through written cooperative arrangements between school and employers, co-op provides students with an opportunity to extend their Career/Technical Education preparation beyond the classroom. Students who have completed at least one trimester of a CTE class can gain valuable work experience, while earning both money and high school credit. It is a great opportunity to increase awareness of the broad spectrum of occupations in an area of interest, and practice teamwork in the real working world while developing positive work attitudes and habits.

Participating students will:

- Be employed in a coordinator-approved work setting.
- Work 10-15 hours per week in class-related, legal employment.
- Receive release time from school, for on-the-job training, school credit and pay.
- Be evaluated every marking period by his / her employer

Computer Science Independent Certification (CSIC)

Course Number: 1160A, 1160B, & 1160C

Credit: 1.5

Grades: 10-12

Homework Rating: Medium

Prerequisite: Cybersecurity or Advanced Computer Science and Teacher Recommendation

This course is designed as a capstone to students who have completed the computer science curriculum at GLCS. It is designed for students to study, train, and prepare for industry standard, computer science related, certification tests. Students will choose a topic of study that interests them then they will study independently using various resources that prepare them for certification tests. The goal is for students to pass their certification tests which will provide them with the skill set for entry level work and or post secondary education. The course is designed to be a full year long, however different certifications may require various amounts of time.

Advanced Business: School Store Management

Course Number: 1110A, 1110B, & 1110C

Credit: 1.5

Grades: 11-12

Homework Rating: Low

Prerequisite: Accounting A & B OR Entrepreneurs and Business Leaders A & B OR Marketing A & B OR Web Design A & B

This course is designed as a capstone to students who have completed the computer science curriculum at GLCS. It is designed for students to study, train, and prepare for industry standard, computer science related, certification tests. Students will choose a topic of study that interests them then they will study independently using various resources that prepare them for certification tests. The goal is for students to pass their certification tests which will provide them with the skill set for entry level work and or post secondary education. The course is designed to be a full year long, however different certifications may require various amounts of time.

English Language Arts

Gull Lake students will be required to earn credit in English 9, 10, and 11. The fourth English credit must be earned in one of the following: English 12, AP Language and Composition, AP Literature and Composition, or approved dual enrollment courses.

English 9

Course Number: 201A & 201B
Grades: 9
Standard: Common Core, NCAA

Credit: 1
Homework Rating: Medium

These courses are designed to cover a wide range of literature from American, British, and world authors. This class will include the study of challenging reading, vocabulary, and grammar and language skills necessary to becoming an effective reader and writer. Students will complete a variety of formal and informal writing assignments and will participate in group work, oral presentations, research and creative projects, and a general study of history, geography, visual media, and culture necessary to appreciate and understand the literature.

English 10

Course Number: 202A & 202B
Grades: 10
Standard: Common Core, NCAA
Prerequisite: Successful completion of English 9A and 9B

Credit: 1
Homework Rating: Medium

These courses are designed to cover a wide range of literature from American, British, and world authors. This class will include the study of challenging reading, vocabulary, and grammar and language skills necessary to becoming an effective reader and writer. Students will complete a variety of formal and informal writing assignments and will participate in group work, oral presentations, research and creative projects, and a general study of history, geography, visual media, and culture necessary to appreciate and understand the literature.

English 11

Course Number: 203A & 203B
Grades: 11
Standard: Common Core, NCAA
Prerequisite: Successful completion of English 10A and 10B

Credit: 1
Homework Rating: Medium

These courses are designed to cover a wide range of literature from American, British, and world authors. This class will include the study of challenging reading, vocabulary, and grammar and language skills necessary to becoming an effective reader and writer. Students will complete a variety of formal and informal writing assignments and will participate in group work, oral presentations, research and creative projects, and a general study of history, geography, visual media, and culture necessary to appreciate and understand the literature.

English 12

Course Number: 204A & 204B
Grades: 12
Standard: Common Core, NCAA
Prerequisite: Successful completion of English 11A and 11B

Credit: 1
Homework Rating: Medium

These courses are designed to cover a wide range of literature from American, British, and world authors. This class will include the study of challenging reading, vocabulary, and grammar and language skills necessary to becoming an effective reader and writer. Students will complete a variety of formal and informal writing assignments and will participate in group work, oral presentations, research and creative projects, and a general study of history, geography, visual media, and culture necessary to appreciate and understand the literature.

Advanced Placement Language and Composition

Course Number: 205A, 205B, & 205C
Grades: 11-12
Standard: College Board, NCAA
Prerequisite: Successful completion of English 9, 10 & 11 and teacher recommendation

Credit: 1.5
Homework Rating: High

A. P. Language and Composition will follow the emphasis of most college first-year writing courses. Students will write in a variety of rhetorical modes including narration and description, argumentation, and exposition. Readings include short stories and major works of fiction as well as nonfiction essays and supplemental texts. The purpose of this course is to enable students to effectively analyze the rhetorical strategies authors use to advance a particular message/overall purpose in preparation for the AP Language and Composition Examination. Students will be assigned summer reading and writing which is designed to prepare them for challenging texts and complex subject matter.

Advanced Placement English Literature and Composition

Course Number: 206A, 206B, & 206C

Credit: 1.5

Grades: 11-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Successful completion of English 9,10, & 11 and teacher recommendation

Advanced Placement English Literature is a class especially designed for the student who is serious about reading and studying literature. The various literary genres and outstanding authors are studied. The student will analyze, interpret, and evaluate the literature through class discussion, written assignments, and creative projects. The class not only helps the student prepare for his/her freshman year in college, but also helps the student prepare for the Advanced Placement English exam. The students will be assigned a summer reading project which they will receive in June. This project will be assessed during the first trimester of the course.

Debate

Course Number: 2070

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standard: NCAA

Prerequisite: None

This course teaches the art and skill of argumentation. Students will research both sides of issues, prepare speeches, practice elocution, and master fallacies, logic and syllogisms. Debaters will produce Lincoln-Douglass, public forum, Model UN, legislative, and improve writing and critical thinking. This class will prepare students for participation in Gull Lake Debate and Model UN (GLDMUN).

Speech

Course Number: 2080

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standard: NCAA

Prerequisite: None

Speech is designed to increase students' basic skills in communication and effective speaking. This course will provide experience in various types of communication situations that will allow the student to grow in poise and gain better command of the spoken word. Students will give speeches in each of the following genres: informative, persuasive, special occasion, group presentation, and impromptu.

Creative Writing:Poetry and Personal Narrative

Course Number:

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standard: NCAA

Prerequisite: None

This course is designed for the serious writer who will devote the time and effort necessary to develop their personal voice and style through imaginative writing assignments concerning poetry and personal narrative. The course will focus on improving each writer's poetic style and improving the ability to write from one's own life experiences. This course requires daily in-class writing and journaling, peer group evaluation, revision work, studying of many different types of writings for use as models and a study of terminology necessary for improving understanding of poetry and short stories with the end goal of eventually developing his/her own personal style of writing. (THIS CLASS WILL BE OFFERED EVERY OTHER YEAR 2023-2024 and 2025-2026.)

Creative Writing:Children's Literature and Fictional Short Stories

Course Number: 2120

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standard: NCAA

Prerequisite: None

This course is designed for the serious writer who will devote the time and effort necessary to develop their personal voice and style through imaginative writing assignments concerning children's literature and short stories. The course will focus on writing fiction from the ground up and understanding fiction writing techniques. This course requires daily in-class writing and journaling, peer group evaluation, revision work, studying of many different types of writings for use as models, and studying of terminology needed to better develop one's understanding of fictional style with the end goal of eventually developing his/her own personal style of writing. (THIS CLASS WILL BE OFFERED EVERY OTHER YEAR 2022-2023 and 2024-2025).

Multimedia and Reporting

Course Number: 2190

Credit: .5

Grades: 9-11

Homework Rating: Medium

Prerequisite: None

In this class students will explore journalism and how social media and online publications have changed the world today. In the process of exploring these ideas, students will learn the basics of digital photography, graphic design, along with, video and podcast editing. Students will learn journalistic style and investigate law and ethics as applied to the media, such as the impact of real and fake news on our society. Students will explore the fundamentals of digital photography, podcasting, and publishing online. Student who elect this course should be willing to meet deadlines and have an aptitude to communicate orally in interview situations.

Yearbook/Publications

Course Number: 214A, 214B, & 214C

Credit: 1.5

Grades: 10-12

Homework Rating: Medium

Prerequisite: Consideration for acceptance to the staff includes written application, good school attendance, taken Writing for the Press, current year's teacher recommendation, special talents, school citizenship record, and an interview with the teacher.

Major responsibilities of the course include planning, decision making, photography computerized page design, interviewing students in order to write copy, selling advertising, and marketing the yearbook. Working as a team is essential. Staff members must be able to work under limited supervision, meet strict deadlines, and be able to spend time outside of regularly scheduled class hours. Students who receive below a "C" average may not elect to take this course again.

Yearbook Editor

Course Number: 215A, 215B, & 215C

Credit: 1.5

Grades: 11-12

Homework Rating: Medium/High

Prerequisite: Application process, permission of yearbook advisor

Two to four students will be selected to act as yearbook editors and/or business managers. These students will be selected based on their leadership abilities, academic standing, attendance, and special talents. They will work as a team to lead the staff during the publishing process and coordinate the efforts of the staff to create a unified, successful yearbook. Students who receive below a "C" average may not elect to take this course again.

Newspaper/Publications

Course Number: 216A & 216B

Credit: 1

Grades: 10-12

Homework Rating: Medium

Prerequisite: None, but students who have been on staff prior and/or have successfully taken MultiMedia and Reporting, Computer Publishing, Yearbook, or a publishing or a photography course in another environment will be given priority.

Students who wish to take part in the Reflection publishing team should elect this course. Responsibilities include newspaper planning and decision-making, article writing, page design and layout, and photo journalism. Students will produce the school newspaper monthly, learning to use PhotoShop, Illustrator, and InDesign. All team members must participate in selling ads to finance the paper. Students will operate under limited supervision at times meet strict deadlines, and spend time in class outside of regular school hours. First year students may take the class two or three tri-mesters per year. Returning students may elect one, two, or three trimesters. Students who receive below a "C" average may not elect to take the class again.

Newspaper Editor

Course Number: 217A & 217B

Credit: 1

Grades: 11-12

Homework Rating: Medium/High

Prerequisite: Application process, permission from advisor.

Two to four students will be selected to act as newspaper editors and/or business managers. These students will be selected based on their leadership abilities, academic standing, attendance and special talents. They will work as a team to lead the staff during the publishing process and coordinate efforts to create a unified, successful publication.

Family and Consumer Sciences

Leadership

Course Number: 5270
Grades: 11-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This course is designed to be an elective for juniors and seniors who have an active interest in learning, strengthening, and promoting leadership skills. Students will be given an opportunity to explore who they are and what they care about as they discover, strengthen, and enhance their leadership skills. This course will engage, prepare, and inspire college and career ready students. Students will have the opportunity to plan and participate in various community service projects. Leadership is a skill, a combination of art and science.

Parenting and Child Development

Course Number: 5200
Grades: 10-12
Prerequisite: Health

Credit: .5
Homework Rating: Low

This course is intended for the development of personal awareness and knowledge and skills associated with the roles and responsibilities of parenting. Topics of study include: readiness for parenting, teen pregnancy, prenatal care, fetal development, childbirth, parenting techniques and child abuse. Both young MEN and WOMEN will gain a better understanding of the physical, social, intellectual, and emotional development of children ages birth through six. The "RealCare Baby" simulator will give students a realistic experience of life with an infant (AN ALTERNATIVE ASSIGNMENT IS AVAILABLE). This class includes authentic learning through projects, guest speakers, and videos.

Interpersonal Relationships

Course Number: 5210
Grades: 10-12
Prerequisite: None

Credit: .5
Homework Rating: Low

During this course students will explore ways to enhance their relationships with their families and others. Students will learn to form realistic expectations for future relationships and prepare for the challenges that lie ahead. Topics of study include: the family foundation, strengthening family and personal relationships through communication skills, decision making skills, management skills, and conflict resolution skills, understanding family challenges and building resilience, extending your interpersonal relationships and forming your own family. This class includes authentic learning through projects, guest speakers, and videos.

Foods and Nutrition

Course Number: 5230
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This course explores the importance in understanding nutritional needs and food choices for optimal health of individuals across the lifespan. Students will learn to build healthy eating habits and live healthy lifestyles from their knowledge of nutrition. Emphasis is placed on applying nutrition principles and developing a variety of food preparation skills. Topics of study include: understanding our food habits, nutrition basics, proper food safety and sanitation, food preparation with a focus on nutrients, and food science and technology. This class includes authentic learning through projects, food labs, guest speakers, and videos. Cooking is both a science and an art. Bon appetite!

Independent Living

Course Number: 5240
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

Independent Living helps an individual develop an identity in today's world. This course prepares students for the challenges and responsibilities of early adulthood. Topics of study include: developing self-awareness, goal setting, decision-making skills, managing stress and other challenges, developing interpersonal relationships, and preparation for living on your own. This class includes authentic learning through projects, guest speakers, and videos.

Fine and Performing Arts

Choir

Course Number: 301A, 301B, & 301C
Grades: 9-12
Prerequisite: None

Credit: 1.5
Homework Rating: Low

If you have ever caught yourself singing into an imaginary microphone or singing along to the radio, you are just the right person for choir. The Blue Devil Choir is a wonderful way to meet new friends and utilize the one instrument which you will always carry with you, your voice. There is no audition and no experience needed to be a member of this outstanding ensemble. It is a requirement of this class to attend all performances and rehearsals.

Band

Course Number: 3020- Marching Band (1st trimester) Credit: 0.5
303A & 303B - Concert Band (2nd/3rd trimester) Credit: 1.0
304A & 304B - Symphonic Band (2nd/3rd trimester) Credit: 1.0

Homework Rating: Moderate

Grades: 9-12

Prerequisites: Successful completion of Middle School band and/or performance audition; teacher recommendation required

During the first trimester, the senior high band functions as the "Blue Devil Marching Band." The band will perform at all home varsity football games, marching band competitions, parades, and pep assemblies. In addition, band members are required to attend a one-week marching band camp during the summer. After football season concludes, the marching band will be split into two bands; concert band and symphonic band. Auditions will determine placement in the bands. It is a requirement of the class to attend all performances and rehearsals.

Jazz Band

Course Number: 305A
Grades: 9-12

Credit: .5
Homework Rating: Low

Prerequisite: Successful completion of Middle band and/or performance audition; teacher recommendation required.

This course is designed for instrumental students to experience performing a style of music that band students rarely have the opportunity to perform in other instrumental ensembles offered at GLHS. The ensemble will focus on playing and performing a variety of jazz styles. In addition, the class will work on improvising skills, listening skills, and supporting soloists. This class is a great addition to any current band student's schedule to add another outlet for music and performing. It is a requirement of the class to attend all performances.

Beginning Guitar

Course Number: 3060
Grades: 11-12
Prerequisites: None

Credit: .5
Homework Rating: Low

Participants in this class will work their way through learning the parts of the guitar, tuning techniques, strumming patterns, picking, note/tablature reading, basic chord progressions and putting together a garage band. You do not have to know how to read music to participate in this class

Intro to Theatre

Course Number: 3100
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

Intro to Theatre is an enjoyable introduction to the creative art and history of theatre. It will explore dramatic literature, scenic design, dramatic imagination, stage technology, theatre production, and basic theatre history.

Stagecraft and Theatre Design

Course Number: 3130
Grades: 9-12
Prerequisites: none

Credit: .5
Homework Rating: Low

Stagecraft is a hands-on course that introduces students to all technical and production elements of a live performance: lighting design and execution, sound design and execution, prop building techniques, set building techniques, costume design and execution, media and publicity design, and make up design and execution. Students are trained in the use of tools and other equipment and will be given a number of projects that require them to use these skills safely and effectively. Students may retake this course with instructor permission

Introduction to Acting

Course Number: 3110
Grades: 9-12
Prerequisites: none

Credit: .5
Homework Rating: Low

Intro to Acting takes a closer look at theatre as an actor. In this class we will focus on helping students create dramatic characters, as well as look at different "rules" for acting. It will explore characterization, pantomime, dramatic literature, staging, scene and monologue work. Students may retake this course with instructor permission.

Oral Traditions (Storytelling)

Course Number: 3140
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

Oral Tradition I invites students to discover our first language- Storytelling. It is the passing along of cultural and personal stories in their many forms. Students will discover this powerful life skill through searching for stories, mentoring an elementary child, and developing their storytelling skill and technique. Classwork will be shared in live audience settings. Students may retake this course with instructor permission.

Improvisation and Sketch Comedy

Course Number: 3190
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

Students in this class will study improvisation techniques and apply them to both long and short form improvisation. Improvisation is a performance skill that requires a great deal of knowledge about people, current events, historical events, and culture, so students will also be responsible for increasing their knowledge in these areas in addition to performing. Students will also study different elements of comedy and write short sketches that use these elements. Students may retake this course with instructor permission.

Creative Development

Course Number: 3193
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This class is designed with any type of artist in mind: visual, performing, literary, musical, etc. The class explores the nature of creativity and the habits that enable one to be creative no matter the art form or activity. Students are required to examine principles and other aspects of creativity, such as new experiences and creative blocks, and apply them to their own lives. Students must also complete an independent creative choice project throughout the trimester. Students may retake this course with instructor permission.

Art 1 (Formerly Principles of Art and Design)

Course Number: 3200
Grades: 9-12
Prerequisite: None

Credit: .5
Homework Rating: Low

This is an introductory course in the visual arts. Emphasis will be on the elements and principles of design and their relationship to visual communication. Art history, aesthetics and critical thinking will be introduced and applied within the 2D art making experience.

Drawing & Painting (Art 2D)

Course Number: 3210
Grades: 9-12
Prerequisite: Principles of Art and Design

Credit: .5
Homework Rating: Low

This class is a continuation of the painting and drawing skills acquired in Principles of Art and Design. A more personal approach to the subject matter will be encouraged and technical skills will continue to be developed. A survey of global art history (ancient to 20th century) will be explored.

Sculpture & Ceramics (Art 3D)

Course Number: 3230
Grades: 9-12
Prerequisite: Principles of Art and Design

Credit: .5
Homework Rating: Low

Modeling, carving, relief and assemblage will be used in the creation of 3D art forms. Hand-building techniques will be practiced extensively during the ceramic unit. An overview of American Art and Architecture will be examined.

Studio Art

Course Number: 3250
Grades: 10-12
Prerequisite: Prior art coursework (minimum 1 credit) and Teacher Recommendation.

Credit: .5
Homework Rating: Low

This advanced course is designed for the independent art student, with an emphasis on visual expression. The student will have the opportunity for further experimentation and investigation into personal expression through the arts (both 2D and 3D). The course is highly recommended for students who desire additional art experiences related to careers in the visual arts, design and/or marketing. Students will continue to develop technical skills related to personal artistic style and original ideas. Students will develop a "portfolio" as a showcase for their work and a document of their creative growth. In addition, student artists will be encouraged to enter their work in local art shows and competitions (KIA High School area show) and will have their work prominently displayed in the annual GLHS Festival of the Senses. STUDIO ART MAY BE REPEATED WITH TEACHER RECOMMENDATION

Art Experience as Therapy: A Peer to Peer Exploration

Course number: 3270
Grades: 9-12

Credit: .5
Homework Rating: Low

This class is designed to use a Peer to Peer/LINKS approach (see Support Services pg.36) using Art and Art Therapy techniques to identify and address the developmental needs of special needs students. Peer Mentors will be assigned to a student (or students) and will work in coordination with the instructor to develop and implement art activities specific to the physical and cognitive needs of that student. Peer mentor students would be those whose future career pathways might include; Art, Art therapy, Education, Special Education, Social Work and Psychology. Research in Art Therapy and application techniques would also be required of Peer Mentors. Through this therapeutic approach and Peer to Peer mentoring, students will be exposed to and utilize a variety of artistic experiences and methods as they relate to specific developmental needs. Teacher recommendation required. Course may be repeated with teacher recommendation.

NOTE : STUDENTS WILL BE FURNISHED MATERIALS FREE TO MEET MINIMAL COURSE OBJECTIVES. PROJECTS ARE THE PROPERTY OF THE SCHOOL FOR ONE YEAR FOR THE PURPOSE OF DISPLAY. MATERIALS PURCHASED FROM THE SCHOOL MUST BE PAID FOR AT THE COMPLETION OF EACH PROJECT.

Mathematics

Since mathematics is a sequential discipline, mastery of fundamental concepts is necessary if an in-depth understanding is to be attained. In making a recommendation the instructor will consider the student in total, with consideration given to the student's abilities, interests, motivation, study habits, and past performance. It is required by the state for each student to complete four credits of mathematics including Algebra, Plane Geometry, Data Analysis/Algebra 2, and a math course in his/her final year of high school.

Algebra (3Tri)

Course Number: 701A, 701B, & 701C

Credit: 1.5

Grades: 9

Homework Rating: Medium

Standard: MMC, NCAA

Prerequisite: MUST BE TEACHER RECOMMENDED to qualify for this class.

NOTE: This course is a three trimester course.

This course may contain the following units: Function Relationships, Linear Functions, Solving Linear Equations, Exponential Functions, Quadratic Functions, Solving Quadratic Functions, Power and Polynomial Functions, Bivariate Data.

Algebra

Course Number: 702A & 702B

Credit: 1

Grades: 9-10

Homework Rating: Medium - High

Standard: MMC, NCAA

Prerequisite: Teacher recommendation

This course may contain the following units: Function relationships, Linear Functions, Solving Linear Equations, Exponential Functions, Quadratic Functions, Solving Quadratic Functions, Power and Polynomial Functions, Bivariate Data.

Plane Geometry

Course Number: 703A & 703B

Credit: 1

Grades: 9-11

Homework Rating: High

Standard: MMC, NCAA

Prerequisite: Successful completion of Algebra AND teacher recommendation

This course may contain the following units: Language of Geometry, Mathematical Reasoning and Proof, Transformational Geometry, Triangles, Quadrilaterals and other Polygons, Right Triangle Trigonometry, Circles, Three-Dimensional Figures.

Concepts of Geometry

Course Number: 705A & 705B

Credit: 1

Grades: 10-11

Homework Rating: Medium

Standard: MMC

Prerequisite: Successful completion of Algebra/Algebra 3 Tri AND MUST BE TEACHER RECOMMENDED to qualify for this class.

NOTE: This course will meet Geometry credit at an introductory level and may not meet college admission standards.

This course may contain the following units: Language of Geometry, Mathematical Reasoning and Proof, Transformational Geometry, Triangles, Quadrilaterals and other Polygons, Right Triangle Trigonometry, Circles, Three-Dimensional Figures.

Data Analysis and Algebra 2

Course Number: 704A & 704B

Credit: 1

Grades: 9-12

Homework Rating: High

Standard: MMC, NCAA

Prerequisite: Successful completion of Plane Geometry AND teacher recommendation

This course may contain the following units: Uni-variate Data And Distributions, Matrices, Exponential and Logarithmic Functions, Rational Functions, Sequences and Series, Conics, Trigonometric Functions, Probability.

Concepts of Data Analysis and Algebra 2

Course Number: 713A 713B

Credit: 1

Grades: 11-12

Homework Rating: Low

Standard: MMC

Prerequisite: Successful completion of Plane Geometry AND MUST BE TEACHER RECOMMENDED to qualify for this class.

NOTE: This course is designed to meet the first half credit of Algebra II at an introductory level and may not meet college admission standards.

This course may contain the following units: Uni-variate Data And Distributions, Matrices, Exponential and Logarithmic Functions, Rational Functions, Sequences and Series, Trigonometric Functions, Probability and a review of quadratics.

Trigonometry

Course Number: 7050

Credit: .5

Grades: 10-12

Homework Rating: High

Standard: MMC, NCAA

Prerequisite: Successful completion of Data Analysis and Advanced Algebra AND teacher recommendation.

This class is designed for the student who plans on continuing his/her math education towards a calculus-based class either in high school or college. The topics covered will include: angles and their properties, radian measure and its applications, trigonometric functions and their graphs, identities, trigonometric equations, inverses of trigonometric functions, laws of sine and cosine, and vectors.

Precalculus

Course Number: 706A & 706B

Credit: 1

Grades: 10-12

Homework Rating: High

Standard: MMC, NCAA

Prerequisite: Successful completion of Trigonometry AND teacher recommendation.

This class is designed to prepare the college-bound student for calculus. The topics covered will include: polynomials, factoring, quadratic relations, linear relations and functions, systems of equations, matrices, the nature of graphs, rational functions, conics, exponential and logarithmic functions, sequences and series, iteration, data analysis, and introduction of calculus theories such as limits, derivatives, and integrals. A review of trigonometry will be included.

Advanced Placement Calculus

Course Number: 707A, 707B, & 707C

Credit: 1.5

Grades: 11-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Successful completion of PreCalculus

NOTE: Students who take this class will be prepared to take the AP test for Calculus AB in May.

This course is designed to prepare the student for the advanced placement calculus examination. Course topics will include the study of explicit and implicit functions, differential calculus and integral calculus. The course will be taught on a college level and students will be expected to spend 1 to 2 hours of non-class time daily studying calculus. The topics in this course may include: algebraic, numerical and graphical approaches, parametric, polar and vector functions, geometric interpretation of differential equations with slope fields, L'Hopital's Rule for convergence of improper integrals and series, numerical solution of differential equations using Euler method, infinite series convergence and divergence. Application problems of the derivative and integral are explored. The course's final exam in spring will consist of exercises taken from previous A.P. Calculus exams. Therefore, each student should be well versed in the use of and have access to a graphing calculator.

Land Surveying

Course Number: 7100

Credit: .5

Grades: 11-12

Homework Rating: Medium

Standard: MMC

Prerequisite: Successful completion of Data Analysis and Advanced Algebra

This course is an overview of the surveying profession and the history of surveying and its impact on the world. Students will review the mathematics used in surveying. Students will be introduced to basic surveying equipment with an emphasis on horizontal and vertical measurements. They will receive instruction about surveying procedures and the limitation of errors. By the end of this course the student will be able to identify various surveying instruments, define surveying terminology, make survey math calculations and describe measurement techniques and theories.

Advanced Placement Statistics

Course Number: 709A, 709B, & 709C

Credit: 1.5

Grades: 11-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Successful completion of Data Analysis and Advanced Algebra AND teacher recommendation.

NOTE: Students who take this class will be prepared to take the AP test for statistics in May.

AP Statistics is a college based curriculum statistics course. The purpose of the AP course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The topics covered will include: displaying data in tables and graphs, describing the shape of a display, measures of center, measures of dispersion, normal distribution, scatter plots, association, correlation, least squares regression, Simpson's paradox, sampling, simulation, statistical inference, probability distributions, binomial distribution, sample means and estimating with confidence. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, statistical inference. A comprehensive semester project is included as part of the grade.

Personal Finance for Everyday & Personal Finance Long Term Planning

Course Number: 7110 & 7120

Credit: .5

Grades: 11-12

Homework Rating: Low

Prerequisite: None

The goals of these classes are to acquaint students with how to plan for their personal financial future. The units covered in Everyday are: career planning, paying for your future, banking services, savings, and income taxes. The units covered in Long Term Planning are: investments, credits, purchasing, preparing a budget, and retirement.

Math for College Success

Course Number: 7160

Credit: .5

Grades: 11-12

Homework Rating: Low

Prerequisite: Data B or Concepts of Data B

Math for College Success will help students to acquire the necessary math skills to be ready for college and career success. All college and career pathways will require a solid foundation of math. This online blended class is available as a trimester course at Gull Lake High School utilizing the ALEKS Program. This course is recommended for students who want to score better on the SAT and fill in their mathematical gaps.

Math for High School Success

Course Number: 7170

Credit: .5

Grades: 9-10

Homework Rating: Low

Prerequisite: Teacher/Counselor Recommendation

Math for High School Success will assist students to acquire the necessary math skills to be successful in any level of mathematics at the high school. This is an online blended course using ALEKS software to develop each student's pathway. The class is excellent for any student who would like to increase his/her math skill level.

The fourth math related requirement may be completed through successful participation in any of the following courses or CTE Programs during senior year.

GLHS

Accounting
Entrepreneurs and Business
Leaders
Marketing
Personal Finance EDL & LTP
Technical Drawing I
Technical Drawing II CAD

CTE

Art and Design Career Skills
Automotive Technology
Aviation Technology
Banking and Finance
Computerized Manufacturing
Construction Tr
Drafting Technology/
Architecture & Engineering
Culinary Arts

CTE (Continued)

Electrical Technology
Electronics and Robotics
Engineering in Wood Technology
Heating, Ventilation, and AC
Information Technology
Mechatronics
Welding

Physical & Health Education

Health

Course Number: 8010
Grade: 9
Prerequisite: None

Credit: .5
Homework Rating: Medium

This course is designed to give the student a basic understanding of what health is and how decisions regarding our health can affect our lives everyday. Specific topics discussed include: Decision Making, , Tobacco, Alcohol and other Drugs, CPR, the Reproductive System, Contraception, Sexually Transmitted Diseases, HIV/AIDS, and Abstinence.

Introduction to Fitness

Course Number: 8020
Grades: 9
Prerequisite: None

Credit: .5
Homework Rating: Low

NOTE: THIS COURSE IS REQUIRED FOR GRADUATION

This class will provide students with an introduction to the weight room, physical fitness activities, and team sports. Emphasis will be focused on the foundations of fitness, weight training safety, and sports related activities. Participation is required. This course may not be repeated.

Lifetime Sports

Course Number: 8040
Grades: 10-12
Prerequisite: Introduction to Fitness

Credit: .5
Homework Rating: Low

The Lifetime Sports class will provide students with instruction and interaction in some of the sports that people play throughout the course of their lives. Emphasis will be on life fitness and activities. Activities will be determined by the season the class is offered and may include: Presidential physical fitness testing, volleyball, basketball, tennis, soccer, softball, badminton, pickleball, ultimate frisbee, Tae Bo, and weight training and bowling. Participation is required. A fee may be required for some activities. This course may be repeated with teacher approval.

Strength and Conditioning

Course Number: 8050
Grades: 10-12
Prerequisite: Introduction to Fitness

Credit: .5
Homework Rating: Low

This course is designed to give students a variety of fitness opportunities to improve on strength training, cardiovascular fitness, and flexibility. There will also be a component on nutritional education. Participation is required. This course may be repeated with teacher approval.

Introduction to Fencing

Course Number: 8090
Grades: 10-12
Prerequisite: Introduction to Fitness

Credit: .5
Homework Rating: Low

The first level of fencing includes the basic fencing skills as well as an introduction to the sport of Olympic fencing. The fencing students will learn on the training sword; the foil. They will also learn the basics of movement, blade engagement, beginning bouts, as well as the basic rules in modern fencing. If time permits, they will also be introduced to the other two Olympic blades, the Epee' and the Saber. The history of fencing and dueling will be given between the exercises to complete the basic knowledge of the sport. This course may be repeated for a maximum of 1 credit.

Science

Concepts of Biology

Course Number: 902A & 902B

Grades: 9

Standard: MMC NOT NCAA

Prerequisite: Teacher/counselor placement only

Credit: 1

Homework Rating: Low

This course is designed to meet the state Biology requirements for graduation at an introductory level. Concepts of Biology A will emphasize microscopic areas of life science. Topics include: chemistry of life, cell structure and function, energy, and classification of organisms. Concepts of Biology B will emphasize macroscopic areas of life science. Topics include: genetics, evolution, cell division, protein synthesis, and ecology.

Biology

Course Number: 903A & 903B

Grades: 9

Standard: MMC, NCAA

Prerequisite: none

Credit: 1

Homework Rating: Medium-High

This course is designed to meet the state Biology requirements for graduation at a more rigorous level. Biology A will emphasize microscopic areas of life science. Topics include: chemistry of life, cell structure and function, energy, and classification of organisms. Biology B will emphasize macroscopic areas of life science. Topics include: genetics, evolution, cell division, protein synthesis, and ecology. Formal lab reports will be required.

Concepts of Physics

Course Number: 904A & 904B

Grades: 10-12

Standard: MMC NOT NCAA

Prerequisite: Biology / Concepts of Biology and teacher recommendation. Algebra recommended.

Credit: 1

Homework Rating: Low

This course is designed for those students who wish to better understand how the natural world behaves. Physics is a study of nature's rules! Topics include motion, forces, momentum, energy, gravity, waves, sound, light, electricity, and magnetism. The emphasis of this course will be to understand the everyday applications of physics through hands-on experience. Laboratory experiences will be group focused and students are expected to be engaged in the learning process. Concepts level physics will involve some math applications but the emphasis will be on conceptual learning.

Physics

Course Number: 905A & 905B

Grades: 10-12

Standards: MMC, NCAA

Prerequisite: Biology, Plane Geometry and teacher recommendation.

Credit: 1

Homework Rating: Medium

Physics is the study of nature's rules! Topics include motion, forces, momentum, energy, gravity, waves, sound, light, electricity, and magnetism. This course is designed to introduce students to the principles of physics along with the skills of problem solving. Classroom structure and subject content will be group focused with students learning from and working with their peers. Hands-on laboratory experiences will be extensive and inquiry based. Students will be expected to work as a cooperative member of a laboratory team and be engaged in the learning process. Mathematical applications and problem solving will be emphasized, along with, meaningful conceptual understanding. Engineering projects will be required each trimester.

Concepts of Chemistry

Course Number: 906A & 906B

Grades: 10-12

Standards: MMC NOT NCAA

Prerequisite: Biology/Concepts of Biology and teacher recommendation. Algebra recommended.

Credit: 1

Homework Rating: Low

This course is designed to introduce the students to the principles of Chemistry while reducing the math application content. Classroom structure and subject content will be group focused with students learning from and working with their peers. Laboratory experiences will be inquiry based with proper guidance along the way to support the learner. Proper laboratory technique and principles of safety will be taught. Lab reports will be scaffolded and structured to support student learning of the subject material in every unit. Students will be expected to work as a cooperative member of a team and work independently in problem solving situations. Topics to be presented in Concepts of Chemistry A will include the particle nature of matter, gas laws and pressure, density, energy of particles, the mole and molar mass, and internal structure of the atom. Topics to be presented in Concepts of Chemistry B will include periodicity, chemical reactions and equations, energy of chemical reactions, stoichiometry, and kinetics.

Chemistry

Course Number: 907A & 907B

Credit: 1

Grades: 10-12

Homework Rating: High

Standards: MMC, NCAA

Prerequisite: Biology, Algebra OR teacher recommendation.

This course is designed to introduce the student to the principles of Chemistry. Classroom structure and subject content will be group focused with students learning from and working with their peers. Laboratory experiences will be extensive and inquiry based. Proper laboratory technique and principles of safety will be taught and stressed. Formal lab reports will be required every unit. Students will be expected to work as a cooperative member of a team and work independently in problem solving situations. Mathematical applications and problem solving will be emphasized. Students should have a calculator with scientific notation and exponential ability. Students should plan on spending an average of 45 minutes to an hour daily studying Chemistry outside of class. Topics to be presented in Chemistry A will include the metric system, unit analysis, gas laws and pressure, density, energy of particles, the mole and molar mass, and internal structure of the atom. Topics to be presented in Chemistry B will include periodicity, chemical reactions and equations, energy of chemical reactions, stoichiometry, and kinetics.

Environmental Issues

Course Number: 9120

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standards: MMC, NCAA

Prerequisite: Biology/Concepts of Biology required, Chemistry/Concepts of Chemistry recommended.

Environmental Issues is designed to provide students with an understanding of the impact humans have on the environment and the impact the environment has on humans. We will cover topics including the history of environmental issues and how we got to where we are today, sustainability, human population growth, human use of resources, climate change, and biodiversity. This course requires independent and outside reading and students will be expected to work to identify environmental issues and suggest solutions as well as present to the class.

Anatomy and Physiology

Course Number: 9170

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standards: MMC, NCAA

Prerequisite: Biology required, Physics and/or Chemistry are recommended.

Anatomy and Physiology will cover the structure and the function each of the human body systems. Several dissections will be completed in order to illustrate the features of these systems. Additionally students will look at comparisons between the systems found in invertebrates and vertebrates other than mammals/humans. Disease conditions common to each system will be included in each unit. Students will be expected to complete several short papers and one large project, and work independently to memorize substantial information.

Forensic Science

Course Number: 9180

Credit: .5

Grades: 10-12

Homework Rating: Medium

Standard: MMC

Prerequisite: Chemistry and Biology

This course surveys key topics in forensic science including the application of scientific process to forensic analysis, procedures and principles of crime investigation, physical and trace evidence. Through lessons, laboratories and analysis of fictional crime scenarios students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection and responsible conclusions. This course is heavily based in lab work (both the collection of data and communication of findings). Therefore, students will write multiple lab reports for each unit.

Advanced Placement Physics 1

Course Number:

Credit: 1.5

Grades: 10-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Data Analysis and Advanced Algebra and teacher recommendation.(Recommended to at least be currently taking Trigonometry)

AP Physics focuses on the big ideas typically included in the first semester of an algebra-based, introductory college-level physics sequence and provide students with enduring understandings to support future advanced work in the sciences. Through inquiry-based learning, students will develop critical thinking and reasoning skills. Students will cultivate their understanding of physics and science as they explore the following topics: Kinematics, Dynamics, Circular motion, Gravitation, Simple harmonic motion, Momentum, Work, Energy, and Rotational Motion. Electricity and Waves may be addressed after the AP exam. It is assumed that students will have considerable reading and math skills, and can work at an accelerated pace. THIS CLASS WILL BE OFFERED EVERY OTHER YEAR 2023-2024 AND 2025-2026.

Advanced Placement Biology

Course Number: 914A, 914B, & 914C

Credit: 1.5

Grades: 10-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Biology, Chemistry and teacher recommendation.

NOTE: This course contains lab activities which may include dissections

Advanced Placement Biology offers students interested in the biological sciences an opportunity to pursue a college level biology course while in high school. This course will cover the AP College Board requirements for preparing for the AP Exam in May. Topics include; the Process of Evolution, Utilization of Free Energy, Molecular building blocks of life, the Response of Living Systems to Information and the Interactions of Living Systems with each other and their environments. Current biological concepts, investigative procedures and laboratory tests will be introduced to broaden the students' understanding and experience in this science. Many of these lab experiences will be inquiry based. It is assumed that students will have good reading skills and will be able to budget their time to maintain a regular schedule of reading assignments. The third trimester will prepare students for the Advanced Placement Exam. It will also contain independent labs and projects. Dissections are possible. THIS CLASS WILL BE OFFERED EVERY OTHER YEAR 2022-2023 and 2024-2025

Advanced Placement Chemistry

Course Number: 915A, 915B, & 915C

Credit: 1.5

Grades: 11-12

Homework Rating: High

Standard: College Board, NCAA

Prerequisite: Chemistry and teacher recommendation

This class allows students the advantage of having previewed the introductory level of college Chemistry. Students must be able to work at an accelerated pace. It is assumed that students will have considerable reading, writing and math skills. Students will be expected to work independently with a group in the laboratory. Problem solving coursework will add greater scope and detail to topics already covered in Chemistry. Principles and concepts concerning thermodynamics, kinetics, molecular structure, equilibria, and electrochemistry will be discussed and applied. Formal lab reports will be written frequently. The third trimester will concentrate on Advanced Placement Exam preparation. A research project and a video project may also be required.

*The third science elective credit may be earned through completion of the following CTE courses: Animal Technology, Conservation Biology, Dental Assisting, EMT, Fundamentals of Health Science, Health Science, Vet Science and Nursing Assisting.

Earth and Space Science

Course Number: 919A & 919B
Grades: 9-12
Standard: MMC, NCAA
Prerequisite: none

Credit: 1
Homework Rating: Low - Medium

This course is designed to meet the state Earth and Space Science requirements for graduation. ESS A is a one trimester course. Topics that will be covered include: astronomy - the study of space and our place in it, as well as its formation and how changes in space affect our planet; geology - the study of the solid Earth, how and why it has changed over time, as well as how those changes have affected life. These studies will be made with a systems-based mindset, a focus on the interrelationships between different parts of the Earth and Space systems. ESS B will cover topics such as: cycling of matter and energy - including investigations into the hydrosphere and Carbon cycle; meteorology - the study of weather and climate, how energy and water flow cause changes in Earth's weather/climate and how humans respond to these changes; and human sustainability - a look at the use of our natural resources, our response to natural hazards, and the overall human impact on the planet.

Social Studies

Civics

Course Number: 601A & 601B
Grade: 9
Standard: MMC, NCAA
Prerequisite: None

Credit: 1
Homework Rating: Medium

In Civics A, through active inquiry and participation, students will learn about the rights and responsibilities of citizenship, basic governmental structures, the U.S. Constitution's format and history, political parties, and elections. Throughout the course, students will apply the core values of our constitutional democracy to current and historical events, key documents, and a public policy issue. In Civics B, students will learn about the executive, legislative and judicial branch of the national government. Students will be able to use the U.S. Constitution to understand the structures and principles of the three branches. In addition, students will learn about state and local governments and international relations. Students will also be applying the U.S. Constitution—specifically the Bill of Rights—to landmark Supreme Court decisions. Throughout the course, students will apply the core values of our constitutional democracy to current and historical events and key documents.

U.S. History and Geography

Course Number: 602A & 602B
Grade: 10-12
Standard: MMC, NCAA
Prerequisite: None

Credit: 1
Homework Rating: Medium

The object of this course is to acquire knowledge of our American heritage and to gain an appreciation of the efforts made by earlier Americans in their struggle to build a nation. This course will examine the military, political, social, geographic, and economic developments during the 20th Century to the present that have made America the nation it is today. There will be an emphasis on geography and its role in shaping the history of America. The contributions of outstanding individuals, major events, and social movements will also be studied. Part A will deal with event occurring from about 1890 to 1945. Part B will cover 1945 to the present.

World History and Geography

Course Number: 603A & 603B
Grade: 10-12
Standard: MMC, NCAA
Prerequisite: None

Credit: 1
Homework Rating: Medium

This course is designed to offer the student a global perspective of world history. It is a chronological survey of world history from the beginning of global interaction to present day. Geography, critical thinking skills, and writing skills will be emphasized. The goal of this class is to examine political, economic, social, and cultural diffusion over time. World History and Geography A will encompass the period from 1000 to 1850. Part B will cover 1850 to the present.

Economics

Course Number: 6070
Grades: 12
Standard: MMC, NCAA
Prerequisite: None

Credit: .5
Homework Rating: Medium

This course will include the study of microeconomics and macroeconomics. Students will use an economic way of thinking to study the market economy, national economy, the international economy, and personal finance. This course will put special emphasis on economic reasoning, problem solving, decision making, and analyzing real-life situations.

Advanced Placement U.S. History

Course Number: 605A, 605B, & 605C
Grades: 10-12
Standard: College Board, NCAA
Prerequisite: Recommendation of Social Studies teacher.

Credit: 1.5
Homework Rating: High

NOTE: THIS COURSE SATISFIES THE U.S. HISTORY / GEOGRAPHY GRADUATION REQUIREMENT.

Advanced Placement United States History is a challenging class meant to be the equivalent of a college level history course and can earn students college credit. It is a 36 week survey of American history from the age of exploration and discovery to present day. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical thinking skills, essay writing, and interpretation of original documents. An exam prepared by the College Board will be offered in May.

Advanced Placement World History

Course Number: 606A, 606B, & 606C
Grades: 11-12
Standard: College Board, NCAA
Prerequisite: Teacher recommendation

Credit: 1.5
Homework Rating: High

NOTE: THIS COURSE SATISFIES THE WORLD HISTORY/GEOGRAPHY GRADUATION REQUIREMENT.

The AP World History course is designed to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The course highlights the nature of change over time and causes and consequences within a historical framework. Content covers the world from 1200 up to the present. A college level text is used along side outside readings. Emphasis is placed on the analysis and interpretation of historical documents, essay writing and in class discussion. The class will give students those experiences necessary for taking the AP exam in May, which may qualify the student for college credit.

History of Religions and Cultures

Course Number: 6091
Grades: 10-12
Standard: NCAA
Prerequisite: None

Credit: .5
Homework Rating: Medium-High

This class will survey themes in various religious traditions. The course studies how these religious traditions conceive of gods and world orders founders and saviors practice and communities. The course will look at their history and contemporary status. The class will also look at the Philosophies of life. Emphasis is placed on analysis and interpretation of documents, essay writing and in class discussion. The following topics will be covered in depth: Islam, Judaism, Christianity, Hinduism, Buddhism, and Myths and Personal Philosophies

Sociology

Course Number: 6100
Grades: 10-12
Standard: NCAA
Prerequisite: None

Credit: .5
Homework Rating: Medium

Sociology is the study of human beings in their group experiences from the viewpoints of the structure of the group and the function of the group. It is also how human behavior may be or is influenced by various groups. This course attempts to examine clearly and logically sociological problems, acquaint the student with contributions of social scientists to the study of human society, to help the student gain an understanding of his/her own group associations, to learn the terms and concepts necessary for a basic understanding of his/her own group associations, and to learn the terms and concepts expected for a basic understanding of the course.

United States History Through Film

Course Number: 6110
Grades: 11-12
Standard: NCAA
Prerequisite: None

Credit: .5
Homework Rating: Medium

This class covers major events and themes from United States history with the focus on 20th century America. Major social, political, cultural, and military topics will be covered through the use of film and supplemental readings. Historical accuracy's and inaccuracies will be discussed and studied. Major Hollywood productions and some lesser known films will be used in this class. The class will be taught through film assignments, various readings, discussion, written exercises, and project presentations.

Introduction to Psychology

Course Number: 6130
Grades: 11-12
Standard: NCAA
Prerequisite: None

Credit: .5
Homework Rating: Medium-High

Introduction to Psychology is a broad survey of the field of psychology. The course includes such topics as learning, thinking, intelligence perception, creativity, developmental psychology, biological basis of behavior, emotions, states of consciousness, abnormal psychology, social psychology, personality theory and modern therapy. Techniques of psychological research will also be emphasized.

Western Civilization I: Ancient World-1715 GLEN OAKS DUAL ENROLLMENT

Course Number: DE-HIST101
Grades: 11-12
Standard: NCAA
Prerequisite:

Credit: 1 (Fall Semester)
Homework Rating: Medium-High

Defines the basic political, economic and social trends influencing western cultural development including Mesopotamia, Egypt, Greece, Roman Republic and Empire, the Christian Era (c. 1000 - 1500), the Reformation, and the Wars of Religion. Instruction employs critical analysis of significant historical eras and societies affecting western civilization.

Western Civilization II: GLEN OAKS DUAL ENROLLMENT

Course Number: DE-HIST102
Grades: 11-12
Standard: NCAA
Prerequisite:

Credit: 1 (Spring Semester)
Homework Rating: Medium-High

The course continues the development of Western Civilization from c. 1700 to the 20th Century. Major political, economic, and social developments reviewed include the Scientific, French, and American revolutions, the Industrial Revolution, the European Balance of Power (c. 1815-1870), the origins of World War I and II, and the Cold War era (c. 1945-1990). Instruction develops critical thinking skills relevant to understanding complex historical trends of the era.

World Language

Spanish 1

Course Number: 404A & 404B
Grades: 9-12
Standard: NCAA
Prerequisites: None

Credit: 1
Homework Rating: Medium

A basic understanding of a second language can add to an individual's cultural development, as well as one's opportunities in today's global economy. The purpose of this class is to familiarize the student with the Hispanic culture and to help students gain mastery of the fundamental building blocks of the Spanish language through grammar and vocabulary. In Spanish I. Students will be introduced to the basic skills of a second language through listening, speaking, reading, and writing. An emphasis is placed on aural/oral skills through vocabulary study and correct pronunciation of simple dialogue and short phrases. Spanish culture is introduced in each lesson and is further emphasized through various media and student projects. By the end of Spanish 1, students should be able to maintain simple face-to-face conversations in predictable settings. Students will be able to create language by combining and recombining elements of learned materials.

Spanish 2

Course Number: 405A & 405B
Grades: 9-12
Standard: NCAA
Prerequisite: Successful completion of Spanish 1

Credit: 1
Homework Rating: High

In Level 2 Spanish, the emphasis on oral communicative skills is continued. However, emphasis is now placed on more correct usage through more complete sentences. Also, there will be increased person-to-person communication. Students are encouraged to speak as much Spanish in class as possible. English will be used at a minimum. Complex verb tenses are introduced and strengthened through constant assessment. The reading and writing skills from Spanish I will be broadened. Hispanic culture will be further explored. Daily assignments will be required.

Spanish 3

Course Number: 406A & 406B
Grades: 10-12
Standard: NCAA
Prerequisite: A "C" average in level Spanish 2 and Teacher Signature

Credit: 1
Homework Rating: High

Level 3 Spanish is designed to provide students with additional review and practice of previously learned structures before advancing to intermediate level grammar. Students will continue to refine their skills in the areas of speaking, writing and listening. Complex verb tenses are introduced and strengthened through constant assessment in verb quizzes that are more in depth. Finer points in grammar are introduced with a particular emphasis on the subjunctive mood. There is continued special study through World Language projects that research Hispanic authors and are presented in the target language. Short literary works will be covered. Daily assignments are required.

Spanish 4

Course Number: 407A & 407B
Grades: 10-12
Standard: NCAA
Prerequisite: A "C" average in Spanish III and Teacher Signature

Credit: 1
Homework Rating: High

Speaking, listening, reading and writing correctly in Spanish are refined at this level. Students move from a previously structured use of the language to a more sophisticated use of their acquired skills. Students will also read and discuss short literary selections in Spanish. Students acquire skills in essay writing that are necessary tools for entry into AP Spanish. Verb assessments are increased in frequency and in number of verb tenses assessed. Daily assignments are required. The course is conducted completely in Spanish in the second trimester of Spanish IVB.

Support Services

The mission of GLCS is to educate every child to his or her full potential. National research indicates that approximately 80% of students are successful in performing to grade level content standards with general classroom instruction and materials. We also know that students do not come to us as “one size fits all” learners, and have different learning styles and rates. GLCS utilizes the Response to Intervention (RTI) model which integrates assessment and intervention within a multi-level prevention system to maximize student achievement. Students identified as at-risk for poor learning outcomes may be provided with additional support through the classes listed below. These classes provide evidence-based interventions, in which the intensity and nature of these interventions will be adjusted according to a student’s responsiveness.

Learning Strategies 9-10

Course Number: 003A, 003B, & 003C
Grades: 9-10
Prerequisite: I.E.P. Recommendation

Credit: .5-1.5
Homework Rating: Low

This course is for those students who need additional support in developing or maintaining academic related skills and will receive specific instruction in the areas identified on the students’ Individual Education Plans (IEP’s). Students will also participate in activities related to curriculum topics such as career exploration, enhancing learner behaviors, increasing self advocacy skills, and transition planning. Additionally, students will also receive additional support with assignments and assessments from their other classes.

Learning Strategies 11-12

Course Number: 005A, 005B, & 005C
Grades: 11-12
Prerequisite: I.E.P. Recommendation

Credit: .5-1.5
Homework Rating: Low

This course is for those students who need additional support in developing or maintaining academic related skills and will receive specific instruction in the areas identified on the students’ Individual Education Plans (IEP’s). Students will also participate in activities related to curriculum topics such as employability skills, disclosure, and post secondary transition planning while continuing to enhance/maintain learner behaviors and self advocacy skills. Additionally, students will also receive additional support with assignments and assessments from their other classes.

ALC- Alternative Learning Curriculum

Course Number: 007A, 007B, & 007C
Grades: 9-12
Prerequisite: I.E.P. Recommendation

Credit: .5-1.5
Homework Rating: Low

These courses are designed to provide an alternative to the credit-based curriculum. Emphasis is on functional academics as well as skills needed for independent living.

Guided Study

Course Number: 008A, 008B, & 008C
Grades: 9-12
Prerequisite: Counselor/Principal/504/CAT approval

Credit: .5-1.5
Homework Rating: Low

This class is designed to help high school students experiencing academic difficulties. This is a guided instructional period where skills are taught and students are given assistance to keep pace with their core class load. Guidance from teachers and peers will be promoted. Students will access online supports, and proper use of technology will be enforced.

Peer to Peer/LINKS

Course Number: 5840
Grades: 10-12
Prerequisite: Coordinator/Counselor Approval

Credit: .5
Homework Rating: Low

This class is a trimester elective course designed to facilitate awareness of individuals with special needs, the systems they require for placement in general education classes, and the benefits of peer-to-peer support in the least restrictive environment. LINKS students will be supporting peers with an Individualized Education Plan in a variety of settings at the teachers discretion. **Teacher recommendation required for student to have initial enrollment in the course. Course may be repeated with teacher recommendation.**

*Modifications can be made to the Michigan Merit Curriculum based on student needs.

**Education for the Arts
2022-2023 Offerings**

EFA Class	Class Location	Michigan Merit Credit
DANCE		
Trimester Offerings		
Beginning Dance Studio	Parchment High School	VPAA and PE (per school district)
Full Year Offerings		
Intermediate Dance Studio (prerequisites)	Kalamazoo Central High	VPAA and PE (per school district)
Intermediate Dance Studio (prerequisites)	Loy Norrix High School	VPAA and PE (per school district)
MEDIA ARTS		
Full Year Offerings		
3D Computer Animation/Game Design	Epic Center PMN	VPAA
Film and Video Arts	Kalamazoo Central High	VPAA
Semester Offerings		
Digital PhotoArt	Online / Epic Center, Mon Eve	VPAA and online requirement
Digital StudioArt	Online / Epic Center, Mon Eve	VPAA and online requirement
THEATRE AND MUSIC		
Full Year Offerings		
Advanced Musical Theatre Workshop	Portage Northern High	VPAA
Theatre Improv and Scriptwriting	Comstock High School	VPAA
VISUAL ARTS		
Semester Offerings		
Advanced Visual Art Studio	Kal. Institute of Arts	VPAA
Semester Offerings - Evening		
Visual Art Exploration	Kal. Institute of Arts	VPAA
LITERARY ARTS		
Semester Offerings		
Creative Writing Online	Online	VPAA and online requirement
Advanced Creative Writing	Online	VPAA and online requirement
Comics, Manga and Graphic Novel Arts	Online / In School	VPAA and online requirement
DUAL ENROLLED PROGRAM: MEDIA ARTS		
Full Year Offering		
KVCC Media Arts Sem 1: ANM 100 Adobe Creative Suite Sem 1: ART 103 Drawing & Composition Sem 2: ANM 142 Adobe PhotoShop Sem 2: ANM 143 Adobe Illustrator	KVCC Center for New Media	VPAA
NEW OFFERING		
Trimester and Semester Offering		
Music Studio	Epic Center	VPAA

**Education for the Arts
2022-2023 Course Descriptions**

Dance	
Course Title	Description
Beginning Dance Studio	Learn the basic elements and discipline of formal dance technique, exploring classical modern dance, ballet, jazz, hip hop, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students gain performance skills, learn how to choreograph their own dances and are required to participate in EFA dance concert at end of each term. They will have the opportunity to take field trips to see live dance concerts and attend master classes. Students will work with professional dance educators and guest artists.
Intermediate Dance Studio	Intermediate Dance is for students who have completed a beginning EFA class, or have previous dance/movement experience, and are committed to a full year of dance instruction. Students will further their training through in-depth instruction and structured small group student exploration in formal dance technique, classical modern dance, ballet, jazz, hip hop, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students will gain performance, composition, and choreographic skills, develop observation, analysis, critical thinking, and reflection skills. Students will prepare and produce a dance presentation each trimester. The class will take field trips to professional dance concerts and work with master guest artists.
Hip Hop 180	Activate your voice and amplify your vision through the power of performance rap/poetry, music, and movement. Dig into the history of Hip Hop culture and social justice leadership to build skills, decipher contexts, and determine truths. Then merge your artistic and activist knowledge and techniques to enact meaningful, positive social change in y(our) community.

Theatre	
Course Title	Description
Advanced Musical Theatre	Using a workshop approach, students will experience an in-depth study of musical theatre to enhance their appreciation of the genre and improve their practical performance skills in acting, vocal and dance performance. Mentored by theatre, vocal and dance educators and guest artists, students will explore, perform, and critique various aspects of musical theatre from the past to the present. Emphasis will be placed on creative and innovative approaches to performing works.

KVCC Media Arts	<p>Fall Semester: ANM 120: Creative Business Standards, MF and ANM 100 Adobe Creative Suite</p> <p>Winter Semester: ANM 143 Adobe Illustrator, MF and ANM 142 Adobe Photoshop, TWR</p> <p>Create artworks using computers as tools and learn how art communicates emotions and ideas. Projects include digital photograph manipulation, art for the Internet, stereo 3D images, digital painting, and combining traditional media with new technologies.</p>
Digital StudioArt	<p>This class will introduce the basics of drawing and painting using digital means, in the process also giving them an introduction to the basics of digital imaging using Adobe Photoshop and Illustrator. The course is built around the core elements of visual art, such as line, shape, value, and color with an additional emphasis on learning and using the tools of imaging software.</p>
Digital PhotoArt	<p>This class will introduce, enhance and refine students' ability to express themselves with the aid of digital cameras. Students will learn proper photographic technique, computer enhancement of photos, printing and professional presentation techniques. Students will have many assignments ranging from core photography fundamentals to immersive pieces of personal expression. They will leave class with the beginnings of a portfolio and knowledge to continue and expand their work in the future.</p>

Literary Arts

Course Title	Description
Creative Writing Online Web Based	<p>Through the study of written works in various forms and the regular practice of writing, students will achieve a better understanding of the creative writing process. Additionally, students will collaborate on a few projects, and will read and critique one another's work through small group workshops (held through discussion forums). Students will turn in four major creative writing assignments, regular creative writing exercises, three short reflections, a recording of student performing one of their assignments, and an online portfolio.</p>
Advanced Creative Writing Web Based	<p>This class is open to motivated writers who have successfully completed the Creative Writing Online class. Students will submit an individualized writing project to the instructor in any creative writing genre. Instructor will develop with students a relevant research plan and writing / revision calendar. Students will receive feedback from instructor and peer student writers. Final writing product will be shared in an on-line portfolio and submitted to student writing festivals.</p>
Comics, Manga and Graphic Novel Arts Web Based	<p>Learn to write and produce compelling, artistic and inventive comics or manga, and Graphic Novels. Research the history of comics, study the elements of story, plot, and character development, and the productive use of imagery, layout, and composition. Work individually and collaboratively on projects and develop projects through manipulation and editing of found media and open source graphics.</p>

KVCC Media Arts	<p>Fall Semester: ANM 120: Creative Business Standards, MF and ANM 100 Adobe Creative Suite</p> <p>Winter Semester: ANM 143 Adobe Illustrator, MF and ANM 142 Adobe Photoshop, TWR</p> <p>Create artworks using computers as tools and learn how art communicates emotions and ideas. Projects include digital photograph manipulation, art for the Internet, stereo 3D images, digital painting, and combining traditional media with new technologies.</p>
Digital StudioArt	<p>This class will introduce the basics of drawing and painting using digital means, in the process also giving them an introduction to the basics of digital imaging using Adobe Photoshop and Illustrator. The course is built around the core elements of visual art, such as line, shape, value, and color with an additional emphasis on learning and using the tools of imaging software.</p>
Digital PhotoArt	<p>This class will introduce, enhance and refine students' ability to express themselves with the aid of digital cameras. Students will learn proper photographic technique, computer enhancement of photos, printing and professional presentation techniques. Students will have many assignments ranging from core photography fundamentals to immersive pieces of personal expression. They will leave class with the beginnings of a portfolio and knowledge to continue and expand their work in the future.</p>

Literary Arts

Course Title	Description
Creative Writing Online Web Based	<p>Through the study of written works in various forms and the regular practice of writing, students will achieve a better understanding of the creative writing process. Additionally, students will collaborate on a few projects, and will read and critique one another's work through small group workshops (held through discussion forums). Students will turn in four major creative writing assignments, regular creative writing exercises, three short reflections, a recording of student performing one of their assignments, and an online portfolio.</p>
Advanced Creative Writing Web Based	<p>This class is open to motivated writers who have successfully completed the Creative Writing Online class. Students will submit an individualized writing project to the instructor in any creative writing genre. Instructor will develop with students a relevant research plan and writing / revision calendar. Students will receive feedback from instructor and peer student writers. Final writing product will be shared in an on-line portfolio and submitted to student writing festivals.</p>
Comics, Manga and Graphic Novel Arts Web Based	<p>Learn to write and produce compelling, artistic and inventive comics or manga, and Graphic Novels. Research the history of comics, study the elements of story, plot, and character development, and the productive use of imagery, layout, and composition. Work individually and collaboratively on projects and develop projects through manipulation and editing of found media and open source graphics.</p>

Kalamazoo Countywide Career and Technical Education Courses (CTE) for Merit Academic Credit 2022-23

- **Completion** of any state-approved CTE program allows a student to substitute:
 - 3rd Science Credit (regardless of content)
 - One World Language Credit (for 2016-2024 graduates only)
- **Completion means 2 full semesters except for those programs highlighted in red below which take 4 full semesters.**
 *For a completer of in-house trimester programs– see instructor. One trimester does **not** indicate a completed program.
- Some CTE programs allow for Visual, Performing & Applied Arts and/or 4th related math credit (see 3rd column below). The law provides local districts with the flexibility to determine what counts for the 4th/final year math credit, including the content and duration.

Arts and Communications Pathway	Site	Merit Credit
Art and Design Career Skills	Kalamazoo Central High School	Visual, Performing & Applied Arts 4th Related Math
Media Production	Public Media Network/Epic Center	Visual, Performing & Applied Arts
Business, Management, Marketing and Technology Pathway	Site	Merit Credit
Accounting/Finance	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Loy Norrix, Portage Central, Portage Northern, Schoolcraft, Vicksburg	4th Related Math
Banking & Finance	Galesburg-Augusta	4th Related Math
Business Administration, Management & Operations (Course names vary according to school districts)	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Loy Norrix, *Parchment, Schoolcraft, Vicksburg	Visual, Performing & Applied Arts 4th Related Math
Computer Science/Software Engineering	Climax-Scotts, Gull Lake, Vicksburg	See MMC credits at the top of page
Culinary Arts	KVCC Culinary & Allied Health Campus- Downtown	Visual, Performing & Applied Arts 4th Related Math
Information Technology	Loy Norrix	4th Related Math
Marketing/Entrepreneurship	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Parchment, Portage Central, Portage Northern , Vicksburg	Visual, Performing & Applied Arts 4th Related Math
Web Design/Graphics	*Gull Lake	Visual, Performing & Applied Arts
Engineering, Manufacturing, Industrial Technology Pathway	Site	Merit Credit
Automotive Technology	Comstock, Loy Norrix	4th Related Math
Aviation Technology	Kalamazoo Air Zoo	4th Related Math
Computerized Manufacturing	Vicksburg	Visual, Performing & Applied Arts 4th Related Math
Construction Trades	Loy Norrix and construction site	Visual, Performing & Applied Arts 4th Related Math
Electronics & Robotics	Kalamazoo Central	Visual, Performing & Applied Arts 4th Related Math
Engineering in Wood Technology	Portage Northern	Visual, Performing & Applied Arts 4th Related Math
Mechatronics	Vicksburg	Visual, Performing & Applied Arts 4th Related Math
Welding	Kalamazoo Valley Community College	Visual, Performing & Applied Arts 4th Related Math
Health Sciences Pathway	Site	Merit Credit
Certified Nursing Assistant (CNA)	Kalamazoo Valley Community College	See MMC credits at the top of page
Dental Assisting	Kalamazoo Valley Community College	See MMC credits at the top of page
Emergency Medical Technician (EMT)	Kalamazoo Valley Community College	See MMC credits at the top of page
Health Science	Kalamazoo Valley Community College	See MMC credits at the top of page
Human Services Pathway	Site	Merit Credit
Cosmetology/Barbering	West MI College of Barbering & Beauty	Visual, Performing & Applied Arts
Law Enforcement	Kalamazoo Valley Community College	See MMC credits at the top of page
Teacher Academy	Gull Lake, Loy Norrix, Portage Northern	Visual, Performing & Applied Arts
Natural Sciences & Agri-Science Pathway	Site	Merit Credit
Agri-Science: Animals and Plants	Vicksburg	See MMC credits at the top of page
Conservation Biology	Heronwood Field Station	See MMC credits at the top of page
Horticulture	Vicksburg	See MMC credits at the top of page
Veterinary Science	Vicksburg	See MMC credits at the top of page
Wildlife & Natural Resources	Vicksburg	See MMC credits at the top of page

Revised: November 4, 2021

**Education for Employment
2022-2023 Course Descriptions**

ARTS AND COMMUNICATION PATHWAY

COURSE TITLE	DESCRIPTION
Art & Design Career Skills	<p>This course allows students to explore and perfect skills in various art media, use professional quality art materials, work on Macintosh computers and tablets, and learn the Adobe Creative Suite programs including Photoshop, Illustrator and InDesign. Students will attend trips to art exhibitions and performances, design firms and school of art tours. Students will research various post-secondary programs and careers in commercial art and design, which may include animation, digital art, fashion design, graphic design, interior design, photography, printmaking, visual art and more. Designers working in the industry, as well as representatives from post-secondary institutions will visit the classroom to consult with students. Students will create a resume, assemble a professional portfolio and attend a portfolio review in preparation for college admissions and internships. This class may be taken for multiple years.</p> <p><i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math and Visual Performing & Applied Arts Credit</i></p> <p><i>This is an Early/Middle College eligible program.</i></p>
Media Production	<p>This course is ideal for students who want to learn how to create media content using visual, audio, graphic and storytelling production techniques for internet, podcasting, television, film, and radio. Students will gain work experience in such skills as video editing, audio production, video composition, graphic composition, effective communication and more. This class provides students with the opportunity to enter local and national competitions as well as airing student work on Public Media Network stations.</p> <p><i>*Potential for articulated credits with Davenport University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*Visual Performing & Applied Arts Credit</i></p>

BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY PATHWAY

COURSE TITLE	DESCRIPTION
Accounting I	See GLHS course description
AP Computer Science Principles	<p>AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.</p> <p><i>*Potential for articulated credits not yet developed</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p>

Banking and Finance	<p>This course provides students with a background in customer service, personal finance, budgeting, investment planning, and business financial management. Students gain exposure to the various career options in the field. They learn how the financial decisions that they make today affect their future.</p> <p><i>*Potential for articulated credits with Davenport University</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i></p>
BMA: Business Administration Management and Operations I	See GLHS course description for Entrepreneurs and Business Leaders
Computer Science Software Engineering	See GLHS course description
Culinary Arts	<p>This program provides students with the opportunity to learn about the restaurant and food service industry. The curriculum, ProStart, was created by the National Restaurant Association and complies with all State standards. Students learn basic food preparation and explore different fields of the culinary trade. Instruction and learning activities are provided in a food lab using hands on experiences. The curriculum includes, but is not limited to, front-of-the-house duties, as well as back-of-the-house duties. Additional activities provide instruction in a wide range of topics from management and employability skills to catering. Students participate in culinary competitions and acquire industry recognized certifications needed to succeed in the industry and post-secondary education.</p> <p><i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i> <i>*Visual Performing & Applied Arts Credit</i> <i>This is an Early/Middle College eligible program.</i></p>
Information Technology	<p>Students enrolled in this program will be exposed to numerous Information Technology specialty areas and choose one of the following career paths to focus on for the year. PC Technician: This path provides a thorough overview of what it means to work as a Tier 1 technician for an I.T. department. Students will learn about hardware, Windows and Linux operating systems, printers, scripting, networking, security and troubleshooting. Eligible certifications include CompTIA's IT Fundamentals and A+, Microsoft's Networking, Operating Systems, and Security Fundamentals; and TestOut's IT Fundamentals and PC Pro. Cisco Networking: Students in this path will experience a comprehensive introduction to the networking field and in-depth exposure to fundamental networking, LAN switching, wireless LANs, basic routing, Cybersecurity, WAN concepts, VPNs, QoS, virtualization, and network automation. Threaded throughout the course are security concepts and skills including threat mitigation through LAN security, ACLs, and IPsec. Eligible certifications include Cisco's CCNA and CompTIA's Network+.</p> <p><i>*Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i> <i>This is an Early/Middle College eligible program.</i></p>
Marketing	See GLHS course description
Web Design/Graphics	See GLHS course description for Digital Media, Art, and Web Design

ENGINEERING/MANUFACTURING AND INDUSTRIAL TECHNOLOGY PATHWAY

COURSE TITLE	DESCRIPTION
Automotive Technology	<p>This National Automotive Technician Education Foundation (NATEF) certified program covers these areas of automotive service: engine, brakes, electrical & electrical systems, steering & suspension, auto & manual transmissions and air conditioning. Students may have the opportunity to become state certified, as well as to earn credit towards completion of an associate degree or other post-secondary training. Students may take this course for two years.</p> <p><i>*Potential for articulated credits with Baker College, Kalamazoo Valley Community College, University of Northwest Ohio</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p> <p><i>*Algebra II Credit</i></p> <p><i>This is an Early/Middle College eligible program.</i></p>
Aviation Technology	<p>Students in this course are dually enrolled and have the opportunity to earn college credit through Kellogg Community College (KCC) in addition to high school credit. The KCC aviation coursework is part of a bridge agreement with Western Michigan University, College of Aviation and is delivered as on-line courses. Instructional support is provided by EFE to ensure student success at the college level. This program is designed to introduce students to many aspects of the aviation industry and is intended for students with an interest in pursuing any career related to aviation. Students will develop a broad knowledge base in subject areas ranging from evolution of airplanes and commercial aviation, flight operations, weather, airspace, navigation, regulations, and aircraft systems. Students have the opportunity to interact with industry experts and visit leaders in the field of aviation for career exploration. The program will feature many hands-on labs. Students may take this course for two years.</p> <p><i>*Potential for articulated credits with Baker College, Northwestern Michigan College</i></p> <p><i>*Dual Enrollment at Kellogg Community College with bridge agreement to WMU-College of Aviation</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p>
Computerized Manufacturing	<p>This exciting, fast-paced pre-engineering course provides advanced technology training in computer-aided design and computer manufacturing systems. All equipment is state of the art including Haas and Mazak CNC machining centers. The course uses CAD software including SolidWorks, Mastercam and KeyCreator. It also features demonstrations and maximizes student laboratory work (80% hands-on). Students gain planning, organizing and decision-making skills while also developing acceptable attitude, interpersonal and equipment-related skills. Paid co-op opportunities are available to second-year students who are placed at local manufacturers. Computerized Manufacturing prepares students for immediate employment, advanced schooling and/or apprenticeship opportunities with local area employers. Students may take this course for two years.</p> <p><i>*Potential for articulated credits with Ferris State University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p> <p><i>Visual Performing & Applied Arts Credit</i></p> <p><i>This is an Early/Middle College eligible program.</i></p>

Construction Trades	<p>This course exposes students to many aspects of the new construction and revitalization industry including site layout, carpentry, electrical, masonry, plumbing, tile setting, HVAC, painting and other construction skill areas. Both male and female students will enjoy the hands-on training experience in remodeling and/or new construction of a home that this course has to offer. Classroom training is also an important component of the class. Students interested in this course should understand basic concepts of measurement and mathematics and be able to work indoors or out</p> <p>Students may take this course for two years.</p> <p><i>* This program is a partnership with Kalamazoo Valley Habitat for Humanity.</i></p> <p><i>*Potential for articulated credits with Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p> <p><i>*Visual Performing & Applied Arts Credit</i></p>
Electrical Technology	<p>Students in this course are dually enrolled and have the opportunity to earn college credit through Kalamazoo Valley Community College. This course provides instruction and training in the areas of applied electricity, residential wiring and code, and safety and first aid. Students will learn basic electrical theory and practices as well as wiring theory and gain lab experience. Upon successful completion of this course, the student should have the knowledge and ability to wire a residence according to the national electrical code. Throughout the program, students gain valuable practical experience working on residential, commercial and industrial wiring. Students interested in this class should enjoy working with mathematical formulas and algebraic concepts.</p> <p><i>*Potential for articulated credits with Baker College</i></p> <p><i>*Dual enrollment at Kalamazoo Valley Community College - 7 College Credits</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p>
Electronics and Robotics	<p>Students in this course are dually enrolled and have the opportunity to earn college credit through Kalamazoo Valley Community College. This course provides instruction and training in the areas of applied electricity, residential wiring and code, and safety and first aid. Students will learn basic electrical theory and practices as well as wiring theory and gain lab experience. Upon successful completion of this course, the student should have the knowledge and ability to wire a residence according to the national electrical code. Throughout the program, students gain valuable practical experience working on residential, commercial and industrial wiring. Students interested in this class should enjoy working with mathematical formulas and algebraic concepts.</p> <p>Students may take this course for two years.</p> <p><i>*Potential for articulated credits with Davenport University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*4th Related Math Credit</i></p> <p><i>*Visual Performing & Applied Arts Credit</i></p> <p><i>*Algebra II Credit</i></p>

Engineering in Wood Technology	<p>Engineering in Wood Technology is a course that covers the rudimentary techniques of woodworking and cabinetmaking in relation to industry. This class provides true differentiated training for the real-world of manufacturing and industry, with student directed studies ranging from areas of programming and operation of CNCs, laser engraving and even 3D printing technologies to rustic woodworking using traditional tools such as Japanese pull saws or hand lathes. This course offers higher-level training in management and student leadership via a complex student-run student-led class structure. Students after leaving this class present skills applicable in all walks of life and will be career or college ready.</p> <p><i>*Potential for articulated credits with Michigan Career & Technical Institute</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i> <i>*Visual Performing & Applied Arts Credit</i></p>
Heating, Ventilation and Air Conditioning (HVAC)	<p>Students in this course are dually enrolled and have the opportunity to earn KVCC college credit in addition to high school credit. This course provides instruction and training in the areas of heating, ventilation, air conditioning and refrigeration as well as the design, installation, and servicing of HVAC/R systems. HVAC prepares students for a technical career upon completion.</p> <p><i>*Dual Enrollment at Kalamazoo Valley Community College - 12 College Credits</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i></p>
Mechatronics	<p>Electronics and mechanical components work together to make up complex systems from a car to a robot to automation lines. Mechatronics students learn to design, build, program, and troubleshoot electro-mechanical systems using the principles of mechanics, electronics and computer science. Students learn about electronics, robotics, equipment controls and sensors, programming, hydraulics/pneumatics, CAD/CAM, basic machining, and CNC.</p> <p><i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i> <i>*Visual Performing & Applied Arts Credit</i></p>
Welding	<p>Students in this course are dually enrolled and have the opportunity to earn college credit from Kalamazoo Valley Community College in addition to high school credit. Students must follow all requirements of a dual-enrolled program. Students learn to weld with the most advanced welding processes used today. Content includes the basic safe operation of the ox-fuel welding, cutting and brazing systems. Students also receive training in the basic electric arc welding processes, SMAW (arc), GMAW (mig), and equipment setup, selection and operation. Blueprint reading for welders, welding symbols and basic welder's trade math are included to prepare the student for employment in the welding trade.</p> <p><i>*Potential for articulated credits with Baker College, Ferris State University</i> <i>*Dual Enrollment at Kalamazoo Valley Community College - 6 College Credits</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*4th Related Math Credit</i> <i>Visual Performing & Applied Arts Credit</i> <i>This is an Early/Middle College eligible program.</i></p>

HEALTH SCIENCES PATHWAY

COURSE TITLE	DESCRIPTION
Certified Nursing Assistant (CNA)	<p>Learn to care for patients in a caring and compassionate manner. Students first learn patient care techniques in a simulated lab environment, followed by a clinical rotation at a long-term care facility. This program is designed to introduce students to the fundamentals of health care, core skills, and health care professional behavior. Upon completion of the program, students are offered study and practice sessions to prepare for the state of Michigan competency exam. Once prepared, students will take the Michigan Nurse Aide Competency Evaluation which includes skills and knowledge tests.</p> <p><i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Dental Assisting	<p>Students choosing this program will be dually enrolled through Kalamazoo Valley Community College (KVCC) and can earn both high school and college credit for the course. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. Enrollment in the EFE Dental Assisting program begins a preferred relationship with the KVCC Dental Hygiene program that could later impact a student's acceptance into the KVCC program. The course prepares students to become dental assistants. Students will learn the fundamental knowledge and skills of dental anatomy, physiology, terminology, dental materials, chairside assisting, sterilization, radiology, laboratory and clinical procedures. Second semester incorporates an internship held in KVCC's Dental clinic and local dental offices. Upon successful completion of this course, students will be qualified for certification from the American Heart Association in Safety and First Aid, and CPR. In addition, students may also be eligible for radiography certification.</p> <p><i>*Dual enrollment at Kalamazoo Valley Community College - 10 college credits</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Emergency Medical Technician	<p>Students in this class are dually enrolled and have the opportunity to earn both high school and college credit. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. EMT consists of a sequence of KVCC courses. Each course is a pre-requisite to the next course. Basic EMT provides students with instruction in basic emergency medical technology. The EMT course is a study of the topics and skills necessary to make lifesaving interventions and stabilize patients during transport to a medical facility. The course involves lecture and practical skills labs and introduces the clinical component of EMT education, the minimum level of training required for work on a transporting ambulance. Second semester students will complete clinical hours with a local ambulance service and healthcare agencies. Upon successful completion of this course, students are eligible for Michigan Department of Health and Human Services licensing as a Medical First Responder (MFR). In addition, students may also be eligible to sit for the national Registry Basic EMT licensing examination.</p> <p><i>*Dual enrollment at Kalamazoo Valley Community College - 10 college credits</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>

Fundamentals of Health Science	<p>The Fundamentals of Health Science program is ideal for students interested in exploring healthcare careers. Instruction will provide the skills and knowledge (both academic and technical) necessary to pursue entry level, advanced certification and/or a two-year degree. Special emphasis is on physiology, anatomy, medical terminology, patient assessment/vital signs, infection control, medical ethics, job-related safety, CPR, first aid and communication. Students should be dependable, well-motivated, and show a sincere interest in health care. <i>*Potential for Dual enrollment at Kalamazoo Valley Community College</i> <i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Health Science	<p>This course introduces the student to health care, with an emphasis on core skills and knowledge applicable to many professional health care disciplines. The curriculum integrates anatomy and physiology, medical terminology, and basic care skills through practical applications found in the health care setting. Students should enjoy working at a fast pace and be considering a healthcare career requiring a minimum of four years of post-secondary education. <i>*Potential for Dual enrollment at Kalamazoo Valley Community College</i> <i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Professional Health Science	<p>Professional Health Science provides advanced training and experience in the healthcare field. The course includes internship experiences and enrollment in advanced skill mini courses such as phlebotomy, electrocardiography, patient care assistance, and exercise science/sports medicine. Students successfully completing CPR/AED and medical terminology instruction may receive articulated college credit. This second-year course represents the most advanced level of study in the health science program. Students applying to the program must meet specific achievement and performance prerequisites within either Health Science or Fundamentals of Health Science before gaining admission. <i>*Potential for Dual enrollment at Kalamazoo Valley Community College</i> <i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>

HUMAN SERVICES PATHWAY

COURSE TITLE	DESCRIPTION
Cosmetology or Barbering	<p>This is a state-certified program of instruction designed to prepare students to become a licensed professional cosmetologist or barber. Michigan's cosmetology course includes 1,500 clock hours (barbering includes 2,000) of mandatory attendance. In order to complete this requirement, students must be committed to attending the program during an extended day all through their junior and senior years and the summer that falls between. Students not meeting this requirement during their EFE enrollment will need to complete the program at their own expense. Upon successful completion of this prerequisite, students will be prepared to take their Michigan State Board Exam. <i>*Cosmetology Licensure available</i> <i>*Potential for articulated credits with Ferris State University</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i> <i>*Visual Performing & Applied Arts Credit</i></p>

Law Enforcement I	<p>Law Enforcement I introduces students to the many different careers available within the field. The program emphasizes the knowledge, skills, and ethics needed to be a successful police/fire academy recruit. Areas of study include criminal law, patrol procedures, fire ground operations, first aid/CPR/AED certifications, defensive tactics, crime scene investigation, and oral & written communication skills. The program follows MCOLES* and police academy standards, as well as current college curriculum.</p> <p><i>*Partnered with Kalamazoo Department of Public Safety.</i></p> <p><i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p>
Law Enforcement II	<p>Law Enforcement II deepens students' understanding of criminal procedures and improves their written and oral communication skills. Eligible students will intern with local public safety agencies during second semester, applying the knowledge, skills, and ethics learned to real world situations.</p> <p><i>*Partnered with Kalamazoo Department of Public Safety.</i></p> <p><i>*Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p>
Teacher Academy	<p>Discover the rewards and joys of teaching! The Teacher Academy is designed to introduce students to various careers in the Education and Training Career Cluster. Students will gain yearlong hands-on experience working in a prekindergarten, elementary or middle school classroom four days per week. In addition, students will learn the necessary background knowledge of child development and principles of effective teaching through a hybrid program of learning which includes weekly online learning, class meetings, extended research projects, field trips and interviews. Students work under the joint direction of an EFE instructor and a master teacher in their area of interest as they learn to plan and direct instruction for individuals and groups, develop materials, assist with record keeping and complete other responsibilities of teachers and other school personnel. Students may take this course for one or two years</p> <p><i>*Potential for articulated credits with Central Michigan University</i></p> <p><i>*2nd World Language Credit</i></p> <p><i>*3rd Science Credit</i></p> <p><i>*Visual Performing & Applied Arts Credit</i></p>

NATURAL RESOURCES AND AGRISCIENCE PATHWAY

COURSE TITLE	DESCRIPTION
Agriscience: Animals and Plants	<p>Interested in growing plants? Want to know about and do more with animals? Interested in natural resources? This is a year-long, hands-on course that allows you to do it all. One semester is spent learning about plants: how to grow them, how they work, and how they feed the world. Students learn about plants and their relationship and importance to people. Students also study plant classification, cell structure, plant parts and functions, plant processes, plant nutrition and soils. The other semester is based upon animals--all kinds of animals. Students learn about basic biology, behavior, care and handling of a broad range of species. Students study domestic livestock production, animal health and nutrition, animal genetics and reproduction, and animal anatomy and physiology. Students study the selection, breeding, feeding, care, and marketing of animals, as well as the role of pets and other animals and their interactions with humans.</p> <p><i>*Potential for articulated credits with Davenport University</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Conservation Biology	<p>This program introduces students to the exciting careers in Natural Resource Conservation and Wildlife Biology. This laboratory/field-based course involves hands-on learning of ecological science, animal and plant studies (i.e. behavior, identification), job shadowing and field trips. This course will have special emphasis on skills and technology used in this profession. Students will have direct contact with natural resource conservationists and wildlife biologists in this field of study. They will attain the skills necessary to obtain employment in various careers in Natural Resource Conservation and Wildlife Biology</p> <p><i>*Potential for articulated credits with Davenport University</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Horticulture	<p>Do you like to grow plants? Want to try your hand at it? This year-long class allows students to explore plant biology and classification, plant nutrition, soil quality, water quality and many other plant-related questions. Projects include landscape design, experimenting with soil types, pest control, and managing all facets of an entrepreneurial spring plant sale to cap off the year. Students will discuss the horticulture and landscaping industry (greenhouse, ornamental horticulture, hydroponics, etc.) and its importance to our economy. Students work in the greenhouse, school garden, and local food forest, and grow plants for themselves and for sale.</p> <p><i>*Potential for articulated credits with Kalamazoo Valley Community College</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>
Veterinary Science	<p>During the first semester, students will focus on anatomy, medical terminology, hematology, animal breeds, animal health and care, restraint and handling, veterinary lab procedures and parasitology. The second semester will combine continued classroom instruction on specific skills with field work in area veterinary clinics. This program will introduce students to and help prepare students for various jobs in the field of veterinary medicine.</p> <p><i>*Potential for articulated credits with Davenport University</i> <i>*2nd World Language Credit</i> <i>*3rd Science Credit</i></p>

Summary of Course Offerings

(Number of Credits Per Class in Parentheses)

Specialized Courses

- #0009 Freshmen Seminar (.25)
- #0010 Sophomore Seminar (.25)
- #0011 Junior Seminar (.25)
- #0012 Senior Seminar (.25)
- #1001 Test Prep (.5)

Applied Technology

- #5010 Woodworking Technology I (.5)
- #5030 Advanced Woodworking Technology (.5)
- #5040 Technical Drawing I (.5)
- #505A/B Technical Drawing II (1)

Business and Technology

- #103A/B Digital Media, Art & Web Design I (1)
- #105A/B Accounting I (1)
- #1070 Introduction to Business (.5)
- #109A/B Entrepreneurs and Business Leaders (1)
- #111A/B Marketing (1)
- #114A/B/C Cooperative Education (.5-3)
- #1101 Introduction to Computer Science (.5)
- #1102A/B Computer Science Software Engineering (1)
- #1103 Career and College Readiness (.5)
- #1105 Business & Technology Capstone (.5-1.5)
- #1106 Computer Science Research & Development (.5)
- #1107A/B Advanced Computer Science (1)
- #1108A/B Cybersecurity (1)
- #1160A/B/C Computer Science Independent Cert (1.5)
- #1109A/B/C Advanced Cybersecurity Essentials
- #1110A/B/C Advanced Business: School Store Management

English Language Arts

- #201A/B English 9 (1)
- #202A/B English 10 (1)
- #203A/B English 11 (1)
- #204A/B English 12 (1)
- #205A/B/C AP Language and Composition (1.5)
- #206A/B/C AP English Literature and Composition (1.5)
- #2070 Debate (.5)
- #2080 Speech (.5)
- # Creative Writing: Poetry and Personal Narrative (.5)
- #2120 Creative Writing: Childrens Lit & Fictional Short Stories (.5)
- #214A/B/C Yearbook/Publications (1.5)
- #215A/B/C Yearbook Editor (1.5)
- #216A/B Newspaper/Publications (1)
- #217A/B Newspaper Editor (1)
- #2190 Multimedia and Reporting (.5)

Family and Consumer Sciences

- #5200 Parenting and Child Development (.5)
- #5210 Interpersonal Relationships (.5)
- #5230 Foods and Nutrition (.5)
- #5240 Independent Living (.5)
- #5270 Leadership (.5)

Fine and Performing Arts

- #301A/B/C Choir (1.5)
- #3020 Marching Band (.5)
- #303A/B Concert Band (1)
- #304A/B Symphonic Band (1)
- #3191 Jazz in America (.5)
- #3060 Beginning Guitar (.5)
- #3110 Introduction to Acting (.5)
- #3140 Oral Traditions (Storytelling) (.5)
- #3190 Improvisation (.5)
- #3193 Creative Development (.5)
- #3130 Stagecraft (.5)
- #3194 Individual Events Forensics (.5)
- #3200 Art 1 (Formerly Principles of Art and Design) (.5)
- #3210 Drawing & Painting (Art 2D) (.5)
- #3230 Sculpture & Ceramics (Art 3D) (.5)
- #3250 Studio Art (.5)
- #3270 Art Experience as Therapy: Peer to Peer Exp (.5)

Mathematics

- #701A/B /C Algebra (3-Tri) (1.5)
- #702A/B Algebra (1)
- #703A/B Plane Geometry (1)
- #705A/B Concepts of Geometry (1)
- #704A/B Data Analysis and Algebra 2(1)
- #713A/B Concepts of Data Analysis and Algebra 2 (1)
- #7050 Trigonometry (.5)
- #706A/B Precalculus (1)
- #707A/B/C AP Calculus (1.5)
- #7100 Land Surveying (.5)
- #709A/B/C AP Statistics (1.5)
- #7110 Personal Finance for Everyday (.5)
- #7120 Personal Finance Long Term Planning (.5)
- #7160 Math for College Success (.5)
- #7170 Math for High School Success (.5)

Physical Education / Health

- #8010 Health (.5)
- #8020 Introduction to Fitness (.5)
- #8040 Lifetime Sports (.5)
- #8050 Strength and Conditioning (.5)
- #8090 Introduction to Fencing (.5)

Science

- #902A/B Concepts of Biology (1)
- #903A/B Biology (1)
- #904A/B Concepts of Physics (1)
- #905A/B Physics (1)
- #906A/B Concepts of Chemistry (1)
- #907A/B Chemistry (1)
- #9080 Geology (.5)
- #9100 Astronomy (.5)
- #9120 Environmental Issues (.5)
- #9170 Anatomy and Physiology (.5)
- #9180 Forensic Science (.5)
- #919A/B Earth and Space Science (1)
- # AP Physics 1 (1.5)
- #914 A/B/C AP Biology (1.5)
- #915A/B/C AP Chemistry (1.5)

Link for Yearbook application

<https://forms.gle/5AWpeZTa3ToJAiNa8>

Summary of Course Offerings

(Number of Credits Per Class in Parentheses)

Social Studies

#601A/B Civics (1)
#602A/B US History and Geography (1)
#603A/B World History and Geography (1)
#6070 Economics (.5)
#605A/B/C AP U.S. History (1.5)
#606A/B/C AP World History (1.5)
#6091 History of Religions and Cultures (.5)
#6100 Sociology (.5)
#6110 US History Through Film (.5)
#6130 Introduction to Psychology (.5)
#DE-HIST101 Glen Oaks Western Civilization I (1)
#DE-HIST102 Glen Oaks Western Civilization II (1)

World Languages

#404A/B Spanish 1(1)
#405A/B Spanish 2 (1)
#406A/B Spanish 3 (1)
#407A/B Spanish 4 (1)

Support Services

#003A/B/C Learning Strategies 9-10 (.5-1.5)
#005A/B/C Learning Strategies 11-12 (.5-1.5)
#007A/B/C Alternative Learning Curriculum (.5-1.5)
#008A/B/C Guided Study (.5-1.5)
#5840 Peer to Peer/LINKS (.5)

Arts & Communication Pathway (EFA)

##3561 Creative Writing Online (.5)
#3686 Advanced Creative Writing Online (.5)
#3684 Comics, Manga, Novel Online (.5)
#3565 Digital StudioArt (.5)
#3566 Digital PhotoArt (.5)
#3590 Integrated Dance (Night) (2)
#3600 Advanced 2D and 3D Art (3)
#3610 Advanced Musical Theatre Workshop (3)
#3630 Intermediate Dance Company (3)
#3641 KVCC Media Arts (3)
#3650 Film and Video Arts (3)
#3660 Theatre Improv & Scriptwriting (3)
#3571 Music Studio (Night) (1)
#3681 Modern/Jazz Dance Studio (3)
#3688 Hip Hop 180 (3)
#3689 Advanced Visual Art Studio (3)
#3690 Visual Art Exploration (Night) (1)

Arts and Communication Pathway (CTE)

#5500 Art & Design Career Skills (3)
#5511 Media Production (3)
#3687 Computer Animation/Game Design (3)

Business Management, Marketing, and Technology (CTE)

#5820 Banking and Finance (3)
#5560 Information Technology I(3)
#5561 Information Technology II (3)
#5570 Culinary Arts (3)

Engineering/Manufacturing & Industrial Tech Pathway (CTE)

#5590 Automotive Technology I,II (3)
#5600 Aviation Technology I,II (3)
#5670 Computerized Manufacturing (3)
#5610 Construction Trades (3)
#5630 Electrical Technology (3)
#5640 Electronics and Robotics (3)
#5641 Mechatronics (3)
#5650 Engineering in Wood Technology (3)
#5660 Heating, Ventilation & Air Conditioning (3)
#5680 Welding (3)

Health Sciences Pathway (CTE)

#5700 Dental Assisting(3)
#5710 Emergency Medical Technician (3)
#5720 Fundamentals of Health Science (3)
#5721 Certified Nursing Assistant (2)
#5730 Health Science (3)
#5740 Professional Health Science (3)

Human Services Pathway (CTE)

#5750 Cosmetology/Barbering (3)
#5770 Law Enforcement I (3)
#5780 Law Enforcement II (3)
#5790 Teacher Academy (1.5)

Natural Resources & Agriscience Pathway (CTE)

#5884 Agriscience Animals and Plants(3)
#5810 Veterinary Science (3)
#5880 Conservation Biology (3)
#5885 Horticulture (3)

Additional Programs

Kalamazoo Area Mathematics and Science Center
#5900 Kamsc AM (4.5)
#5901 Kamsc PM (4.5)

Academically Talented Youth Program
#5999 ATYP (1.5)

Dual Enrollment
#600A/B/C Dual Enroll (1.5)

Gull Lake Virtual Learning
#690A/B/C Virtual (.5-1.5)

Link for CTE and EFA applicaton:

<https://studentsignup.swmitech.org/GL12>

IT IS THE POLICY OF GULL LAKE COMMUNITY SCHOOLS THAT NO PERSON ON THE BASIS OF RACE, COLOR, RELIGION, NATIONAL ORIGIN OR ANCESTRY, AGE, GENDER, MARITAL STATUS OR HANDICAP, WILL BE DISCRIMINATED AGAINST, EXCLUDED FROM PARTICIPATION IN, DENIED THE BENEFITS OF, OR OTHERWISE BE SUBJECTED TO, DISCRIMINATION IN ANY PROGRAM OR ACTIVITY TO WHICH IT IS RESPONSIBLE, OR FOR WHICH IT RECEIVED FINANCIAL ASSISTANCE FROM THE MICHIGAN DEPARTMENT OF EDUCATION.