

GRAFTON HIGH SCHOOL

Academic & Career Planning Course Guide



2025 - 2026



Grafton High School

1950 Washington Street
Grafton, Wisconsin 53024
(262) 376-5500



Administration

Mr. Scott Mantei	Principal
Mr. Kevin Moore	Associate Principal/Athletic Director
Mr. Mike Kalina	Associate Principal

School Counselors

Mr. Greg Johnson	School Counselor, Director
Ms. Emily May	School Counselor
Ms. Jenny Marks	School Counselor
Ms. Kelly Rieck	Administrative Assistant

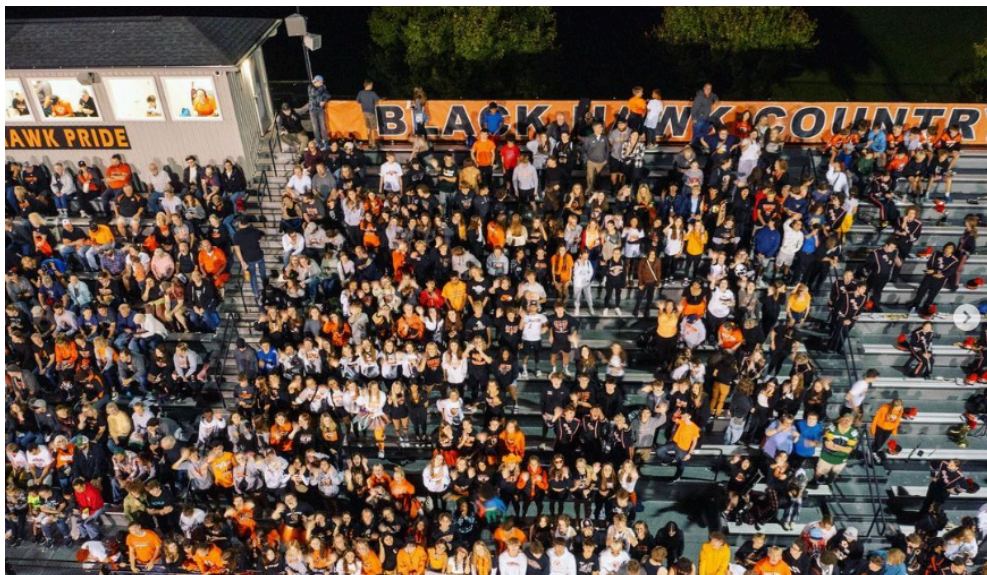
NONDISCRIMINATION AND ACCESS TO EQUAL EDUCATIONAL OPPORTUNITY

All courses, including Career and Technical Education courses, are available without discrimination based on race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including gender status, change of sex or gender identity), or physical, mental, emotional, or learning disability, or any other characteristic protected by law (Protected Classes).

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INTRODUCTION

We believe that all students can learn at high levels, and the district's comprehensive curriculum, aligned to state standards, reflects this core belief. Our dedicated, highly qualified staff work collaboratively to design and implement instructional programming to meet the needs of our diverse learners. The mission of the Grafton School District is to prepare learners for a dynamic tomorrow. Our vision is to build a collaborative, versatile environment that fosters creative, adaptable, lifelong learners prepared to succeed in an ever-changing global community. The *Grafton High School Academic and Career Planning Guide* reflects the district's vision by offering a comprehensive range of classes designed to provide students and families the information needed to plan for student success in high school and to be college, career and life ready. ([Vision 2030](#))

Course Selection Information

Once a student requests a course, a series of commitments on the part of the school is made. Courses offered will depend on enrollment requests. A minimum number of students must request a course before the course will be offered. When a course is canceled, the student may select another course in its place. Course selection, therefore, is extremely important and should be considered as much a commitment on the part of the student as the school. The array of courses offered at Grafton High School are designed to prepare students with differing interests and abilities for a variety of post high school options.

Some English, Social Studies, Mathematics, or Science courses which meet graduation requirements do not meet academic credit requirements for admission to the Universities of Wisconsin system and other colleges and universities. It is the responsibility of the student to confirm this information with the university/college admissions office.

2025-2026 Course Revisions

Course offerings at Grafton High School are annually reviewed for consideration of new courses to increase learning opportunities for our students. In addition, courses are also reviewed through the curriculum cycle. Below are changes for the 2025-2026 school year:

Art

- New Courses
 - Printmaking 1 (.5 credit)
 - Sculpture (.5 credit)

Business

- Renamed Course Career Internship
 - Career Internship/Business CO-OP (.5 or 1 credit)

Social Studies

- New Course
 - AP U.S. Government & Politics (1 credit)

Financial Literacy Requirement Changes

- Students in the graduating **classes of 2026, and 2027** may select from the following: .5 credit courses to meet the financial literacy requirement:
 - Personal Finance, College Personal Finance, AP Macroeconomics, AP Microeconomics, Independent Living
- Students in the graduating **class of 2028 and beyond** may select from the following 5 credit courses to meet the financial literacy requirement:
 - Personal Finance
 - College Personal Finance
 - Independent Living

Math Credit

- Personal Finance may be used as .5 math credit for students in the graduating classes of 2026 and 2027. Beginning with the Class of 2028 and beyond, Personal Finance can not be used as a .5 math credit.

Be Your Best at GHS

Be Prepared

PREPARE FOR SUCCESS

- Develop and use a personalized organization system
- Check Canvas and email daily to understand expectations and due dates
- Enter class equipped for the lesson with appropriate materials

- Put forth best effort on every attempt
- Actively participate in class, collaborate with peers, and appropriately use technology
- Understand lesson goals and follow feedback to demonstrate learning

Be Engaged

CHOOSE TO LEARN

Be Productive

MANAGE YOUR TIME

- During class: Complete as much work as possible
- Prior to the next class: Complete assignments, review, and practice
- Sign up for BHT with a specific academic purpose in mind

- Expect and work through academic challenges
- Communicate with teachers for support
- Ask questions and seek help as needed

Be Proactive

ADVOCATE FOR YOURSELF

GRAFTON HIGH SCHOOL

ACADEMIC PREPARATION INFORMATION

Subject	Grafton HS	Minimum College Prep	Universities of WI	Selective Universities
English	4 credits	4 credits	4 credits	4 + credits including honors and/or AP
Mathematics	3 credits	3 credits (at least Algebra, Geometry, Algebra 2)	3 credits (at least Algebra, Geometry, Algebra 2)	4 credits (including honors and/or AP)
Science	3 credits	3 credits	3 credits	4 credits (including honors and/or AP)
Social Studies	3 credits	3 credits	3 credits	4 credits (including honors and/or AP)
World Language	Not required	0-2 credits	2+ credits recommended	3-4 credits including AP
Computers	Not required	Computer proficiency recommended	Will count toward academic preparation	Computer proficiency recommended
Fine Arts	Not required	Recommended	Will count toward academic preparation	1 or more credits recommended
Physical Education	1.5 credits	Not required	Not required	Not required
Health	0.5 credit	Not required	Not required	Not required
Financial Literacy	.5 credit	Not required	Not required	Not required
Electives	8.5 credits	Academic electives	4 academic electives from above areas	Academic electives recommended
Total	24 credits	16-17 academic credits	17 or more academic credits	18-20 academic credits (average)

GHS Honor Roll (based on semester GPA)

Honors	High Honors	Special Honors
3.0-3.5	3.51-3.75	3.76 +

GRAFTON HIGH SCHOOL GRADUATION REQUIREMENTS

24 Credits Required

- 4 credits English
- 3 credits Social Studies
 - Global Studies or AP Human Geography (1 credit)
 - United States History or AP US History (1 credit)
 - American Government (.5 credit)
- 3 credits Mathematics
- 3 credits Science
 - Biology (1 credit)
- 1.5 credits Physical Education
- 0.5 credits Health
- 0.5 credit Financial Literacy
- 8.5 additional credits

Financial Literacy Requirement

All students are required to meet the financial literacy requirement. Students in the graduating classes of 2026, and 2027 may select from the following:

- .5 credit courses: Personal Finance, College Personal Finance, AP Macroeconomics, AP Microeconomics, and Independent Living.

Students in the graduating class of 2028 and beyond may select from the following

- .5 credit courses: Personal Finance, College Personal Finance, and Independent Living.

Civics Exam Requirement - Per Wis. Stat. s. 118.33(1m)(a)1. All students are required to pass the WI Civics Exam.

Visit the Department of Public Instruction [website](#) for more information

ADDITIONAL PLANNING INFORMATION

REQUIRED COURSE LOAD

Each student shall be enrolled in a minimum of seven credits per year. Exceptions to this include:

1. Seniors enrolled in an approved Work Study Program
2. Students enrolled in a Youth Apprenticeship Program
3. Students with an IEP or a 504 Plan
4. Students identified as At-Risk

CHANGES IN COURSE SELECTION

Students are expected to choose their courses carefully while considering their Academic and Career Plan. Below is the timeline if a schedule change is deemed necessary:

- Students who are requesting to add or drop a class for a legitimate reason must have parent permission and see their school counselor within the **first five school days of the semester**.
- Students who do not have a study hall (8 courses) will have through the **first four weeks of each semester** to drop a course for a study hall.

GRADUATION PARTICIPATION

Students must meet all graduation requirements to participate in the graduation ceremony.

EARLY GRADUATION

The Board acknowledges that some students are pursuing educational goals which include graduation from high school earlier than their designated class. The process and timeline outlined below must be followed to be considered for approval.

1. A student may graduate after seven semesters by earning 24 total credits; earn all 13 required course credits, and receive the permission of the Principal before the end of the sixth semester.
2. A student may graduate after six semesters of high school by earning 24 credits; earn all 13 required course credits, and receive the permission of the Principal. The request form must be submitted along with junior year scheduling materials.



NCAA COLLEGE STUDENT ATHLETES

Student-athletes wishing to compete in athletics at division 1 or 2 institutions, (athletic scholarship schools) need to register with the National Collegiate Athletic Association Clearinghouse. Registration forms and information describing regulations and eligibility can be obtained by visiting the Clearinghouse [website](#). **Eligible students must check to see whether the high school courses that are being requested are NCAA approved courses.** See your coach or school counselor for additional information. All students wishing to be a student-athlete in college should also be familiar with this website: [Official Site of the NCAA](#).

TEACHER ASSISTANT & INDEPENDENT STUDY

Teacher Assistant position - For students interested in assisting a teacher, there is an opportunity to be a teacher assistant. Interested upperclassmen (juniors and seniors) must discuss this possibility with the content teacher prior to securing administrative approval. Applications are available in the GHS Counseling Office. Teacher Assistant positions are graded on a pass/fail basis and awarded .5 credit per semester. **Students can not have a study hall in addition to a Teacher Assistant position.**

Independent Study - Students who are in 11th or 12th grade wishing to pursue study beyond established curricular offerings may apply for an Independent Study for elective credit to replace a study hall. The process involves completion of the Independent Study Plan form available in the GHS Counseling Office which requires parent, supervising teacher, counselor, and principal approval. Planning for an Independent Study should take place prior to the start of the semester in which the Independent Study will occur. It is expected that the Independent Study student will give a presentation at the end of the semester. Independent Study courses are graded on a pass/fail basis and awarded a .5 credit per semester.



CAREER CLUSTERS

Career Clusters are broad occupational groupings. [Utilizing the National Career Cluster Framework](#), 14 Career Clusters, students can identify clusters from high school to two and four-year colleges, graduate school or directly into the workforce. The Grafton High School Career Clusters [website](#) will list GHS courses that relate to a particular career area. Many courses have prerequisites - please see the course descriptions in the *GHS Academic & Career Planning Guide* to help determine the proper sequencing. The courses are recommendations only and are not intended to direct students away from areas of interest. These recommendations are broad in order to match each career pathway, but not all courses are required for each occupation in that cluster. For more information about career choices and relevant courses, see your counselor

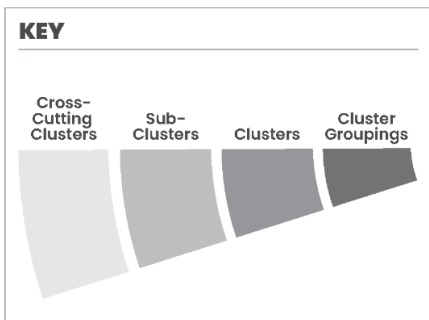
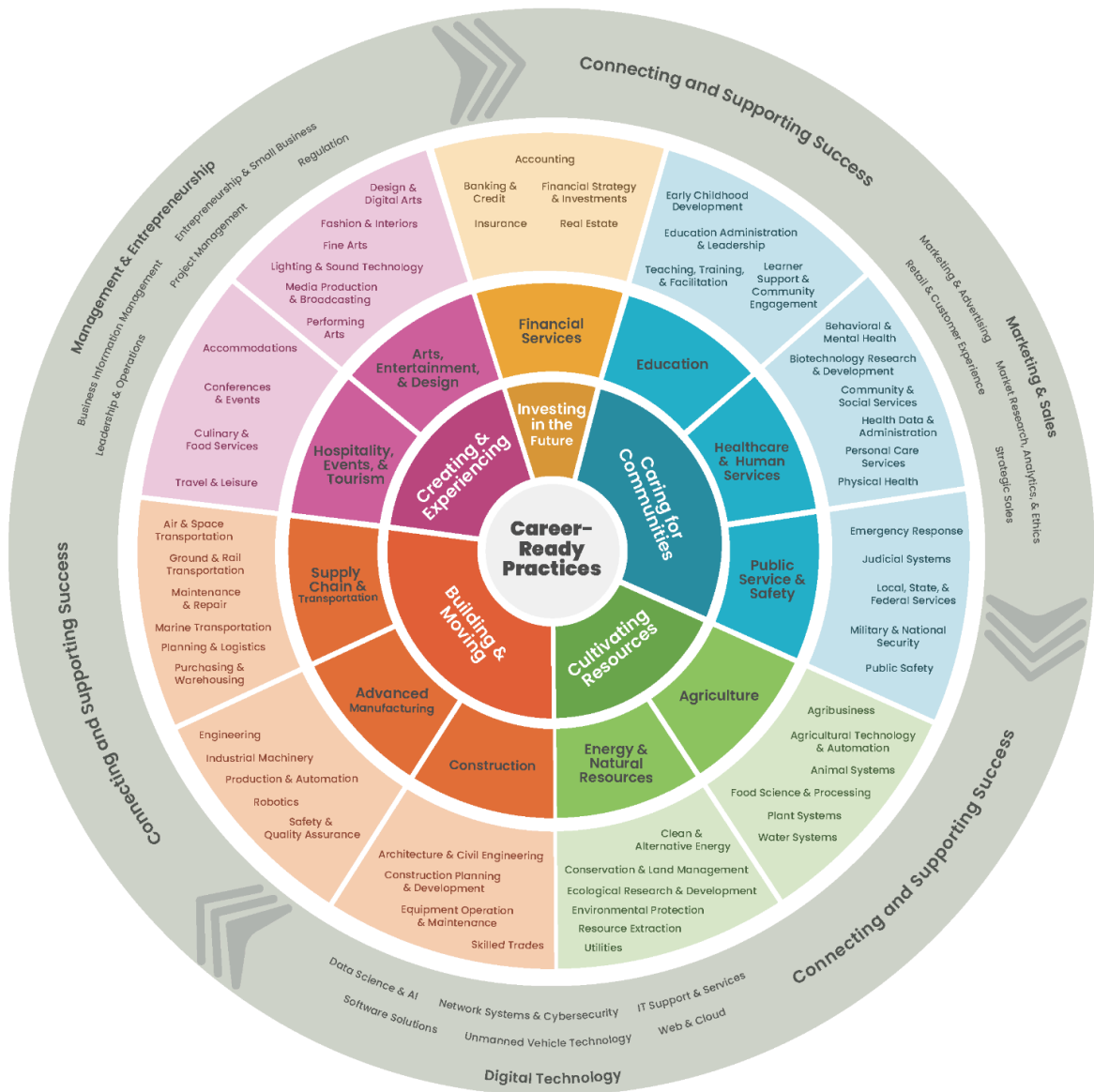


Grafton High School/Regional Career Pathways

Pathways Wisconsin is a regional approach to deliver high-quality state-endorsed regional career pathways in the state. Pathways Wisconsin has had tremendous success in bringing key partners together to create regional career pathways. GHS offers the pathways below.

- [Advanced Manufacturing Career Pathway](#)
- [Architecture & Construction Regional Career Pathway](#)
- [Business Administration in Finance Career Pathway](#)
- [Information Technology Regional Career Pathway](#)
- [Direct Patient Care Regional Career Pathway](#)






Career Clusters

Pathways to College & Career Readiness



COURSE PLANNING SHEET

9th Grade	
Course	Credit
Required:	
Literature/Composition 9 or Literature/Composition 9 Honors	1
Mathematics: _____	1
Biology or Biology Honors	1
Global Studies or AP Human Geography	1
Physical Education 9	.5
Health	.5
Career Exploratory Electives:	
_____	___
_____	___
_____	___
_____	___

10th Grade	
Course	Credit
Required:	
American Lit/Comp 10 or American Lit/Comp 10 Honors	1
Mathematics: _____	1
Science: _____	1
US History or AP US History	1
Phy Ed: _____	.5
Career Exploratory Electives:	
_____	___
_____	___
_____	___
_____	___
_____	___
_____	___

11th Grade	
Course	Credit
Required:	
World Literature/Composition or A.P. Language and Composition or AP Seminar	1
Mathematics: _____	1
Science: _____	
Social Studies _____	
Physical Education (either in 11 or 12 grade)	.5
Career Exploratory Electives:	
_____	___
_____	___
_____	___
_____	___

12th Grade	
Course	Credit
Required:	
English: _____	1
Career Exploratory Electives:	
_____	___
_____	___
_____	___
_____	___
_____	___
_____	___

**Financial Literacy .5 credit requirement must be completed prior to graduation.*

*** American Government .5 credit requirement must be completed prior to graduation.*

Grafton High School Courses

*Prerequisite required

Prerequisite	ART	Credit	9	10	11	12
	ART EXPLORATION	0.5	x	x	x	x
*	AP ART & DESIGN	1			x	x
	CERAMICS 1	0.5	x	x	x	x
*	CERAMICS 2	0.5	x	x	x	x
*	CERAMICS 3	0.5		x	x	x
	DIGITAL ARTS 1	0.5		x	x	x
*	DIGITAL ARTS 2	0.5		x	x	x
	DRAWING 1	0.5	x	x	x	x
*	DRAWING 2	0.5	x	x	x	x
*	DRAWING 3	0.5		x	x	x
*	JEWELRY METALS 1	0.5	x	x	x	x
*	JEWELRY METALS 2	0.5		x	x	x
*	PAINTING 1	0.5	x	x	x	x
*	PAINTING 2	0.5		x	x	x
*	PAINTING 3	0.5		x	x	x
	PRINTMAKING 1	.5	x	x	x	x
*	SCULPTURE	.5	x	x	x	x
Prerequisite	BUSINESS	Credit	9	10	11	12
	ACCOUNTING	1		x	x	x
*	ADV ACCOUNTING	1			x	x
	BUSINESS & MERCHANDISING	1	x	x	x	x
	BUSINESS CO-OP/CAREER INTERNSHIP	.5/1			x	x
	CAPP ENTREPRENEURSHIP	0.5		x	x	x
	COLLEGE PERSONAL FINANCE	0.5		x	x	x
	COMPUTER APPL FOR COLLEGE & CAREERS	0.5	x	x	x	x
	DESKTOP PUBLISH	0.5	x	x	x	x
	DIGITAL VIDEO DESIGN	1	x	x	x	x
	GAME/APP DESIGN	0.5	x	x	x	x
	PERSONAL FINANCE	0.5		x	x	x
	SPORTS MANAGEMENT	0.5		x	x	x
	WEB DESIGN	0.5	x	x	x	x
Prerequisite	COMPUTER SCIENCE	Credit	9	10	11	12
	INTRO TO PROGRAMMING	1	x	x	x	x
*	ADVANCED COMPUTER PROGRAM/VIRTUAL REALITY	1		x	x	x
*	AP COMP SCIENCE A	1		x	x	x
*	AP COMP SCIENCE PRIN	1		x	x	x
Prerequisite	COMMUNICATION ARTS	Credit	9	10	11	12
	AMER LIT/COMP	1		x		
	AMER LIT/COMP HON	1		x		
	AP ENGLISH LANG	1			x	x
	AP ENGLISH LIT	1				x
	AP SEMINAR	1		x	x	x
*	AP RESEARCH	1			X	x
	CONTEMPORARY LIT	0.5			x	x
	COMMUNICATIONS	0.5			x	x
	CREATIVE WRITING	0.5			x	x

	COLLEGE COMP	0.5				x
	LIT & COMP 9	1	x			
	LIT & COMP 9 HONORS	1	x			
	LIT AS SOC REFL	0.5			x	x
	PUBLICATION DES PR. I	1		x	x	x
*	PUBLICATION DES PR II	1			x	x
	TECH WRIT/COMP	0.5				x
	WORLD LIT/COMP	1			x	
Prerequisite	FAMILY CONSUMER SCIENCE	Credit	9	10	11	12
*	ADV FOOD & RESTAURANT MGMT	1.0			x	x
	BAKING PRINCIPLES	0.5	x	x	x	x
	CHILD DEV 1	0.5			x	x
*	CHILD DEV 2	0.5			x	x
	FASHION/FABRICS 1	0.5	x	x	x	x
*	FASHION/FABRICS 2	0.5	x	x	x	x
*	FOOD CONCEPTS	0.5	x	x	x	x
*	FOOD SCIENCE	0.5		x	x	x
	HOUSING/DESIGN	0.5		x	x	x
	INTRO TO HEALTH OCCUPATIONS	0.5		x	x	x
	INDEPENDENT LIVING	0.5			x	x
Prerequisite	WORLD LANGUAGE	Credit	9	10	11	12
*	AP GERMAN LANGUAGE/GERMAN 5	1				x
*	AP SPANISH LANG	0.5				x
*	CHARLEMOS	0.5			x	x
	GERMAN 1	1	x	x	x	x
*	GERMAN 2	1	x	x	x	x
*	GERMAN 3	1		x	x	x
*	GERMAN 4	1			x	x
*	HISPANIC FILM & LIT	0.5				x
*	LATIN AM STUDIES	0.5			x	x
	SPANISH 1	1	x	x	x	x
*	SPANISH 2	1	x	x	x	x
*	SPANISH 3	1		x	x	x
*	SURPRISING SPAIN	0.5			x	x
Prerequisite	TECH & ENGINEERING	Credit	9	10	11	12
*	ADVANCED AUTO	1				x
*	ADV MACH TOOL	0.5		x	x	x
*	AIR COOLED ENGINES	0.5		x	x	x
	ARCH DESIGN 1	0.5		x	x	x
*	ARCH DESIGN 2	0.5		x	x	x
*	AUTO DIAGNOSIS	0.5			x	x
	AUTO SERVICE	0.5		x	x	x
*	CABINETMAKING	0.5		x	x	x
	FTC: ROBOTICS	.5	x	x	x	x
	MACH TOOL TECH	0.5		x	x	x
	METAL FABRICATION	0.5		x	x	x
	PLTW: COMP INT MFG	1		x	x	x
*	PLTW: ENGINEERING DESIGN & DEVELOPMENT	1			x	x
	PLTW: INTRO TO ENGINEERING DESIGN	1	x	x	x	x

Prerequisite	TECH & ENGINEERING	Credit	9	10	11	12
	PLTW: PRIN OF ENGIN	1		x	x	x
*	RES CONSTRUCT 1	0.5			x	x
*	RES CONSTRUCT 2	0.5			x	x
	SYSTEMS REPAIR	1				x
	TECH/ENGINEER 9	1	x			
	WELDING 1	0.5		x	x	x
*	WELDING 2	0.5		x	x	x
	WOOD DESIGN	0.5		x	x	x
Prerequisite	MATH	Credit	9	10	11	12
*	ALGEBRA	1	x	x	x	x
*	ALGEBRA 2	1	x	x	x	x
*	ALGEBRA 2 HONORS	1	x	x	x	x
	ALGEBRA SUPPORT	1	x			
*	AP CALCULUS AB	1			x	x
*	AP CALCULUS BC	1			x	x
	AP PRECALCULUS	1		x	x	x
	AP STATISTICS	1			x	x
*	INTRO COLLEGE ALG/TRIG	1			x	x
*	GEOMETRY	1	x	x	x	x
	GEOMETRY SUPPORT	1		x	x	
*	GEOMETRY HONORS	1	x	x	x	x
Prerequisite	MUSIC	Credit	9	10	11	12
*	AP MUSIC THEORY	0.5		x	x	x
	CAMERATA	1		x	x	x
	CHORALE	1	x	x	x	x
	CONCERT BAND	1	x	x	x	x
	CONCERT CHOIR	1		x	x	x
	FUND OF THEATER	0.5			x	x
	JAZZ ENSEMBLE	0.5		x	x	x
	MUSIC THEORY	0.5		x	x	x
	MUSIC APPRECIATION	0.5	x	x	x	x
	WIND ENSEMBLE	1		x	x	x
Prerequisite	PHYSICAL EDUCATION	Credit	9	10	11	12
*	ADV. STRENGTH TRAINING	0.5		x	x	x
	NET GAMES	0.5		x	x	x
*	OFFICIATING	0.5		x	x	x
	OUTDOOR ADVENTURE	0.5		x	x	x
	PERSONAL FITNESS	0.5		x	x	x
	PHY ED 9	0.5	x			
	PHY ED 12	0.5				x
	PHY ED LEADERS	0.5		x	x	x
	STRENGTH TRAINING	0.5		x	x	x
	TEAM SPORTS	0.5		x	x	x
Prerequisite	HEALTH	Credit	9	10	11	12
	HEALTH	.5	x			

Prerequisite	SCIENCE	Credit	9	10	11	12
*	AP BIOLOGY	1.5			x	x
*	AP CHEMISTRY	1.5			x	x
*	AP ENVIRON SCIENCE	1			x	x
*	AP PHYSICS 1	1			x	x
	BIOLOGY	1	x			
	BIOLOGY HONORS	1	x			
*	CHEMISTRY HONORS	1		x	x	x
*	CHEMISTRY	1		x	x	x
	ENVIRON SCIENCE	0.5		x	x	x
	GEOLOGY/EARTH SYST	0.5		x	x	x
*	INTRODUCTION TO MATERIALS SCIENCE	0.5		x	x	
	PLTW:HUMAN BODY	1		x	x	x
	PLTW:BIOMED INNO	1			x	x
	PLTW:MED INTERV	1			x	x
	PLTW:BIOMED SCI	1	x	x	x	x
	PHYSICS	1		x	x	x
	SPACE SCIENCES	0.5		x	x	x
*	ZOOLOGY/BOTANY	0.5		x	x	x
Prerequisite	SOCIAL STUDIES	Credit	9	10	11	12
	AMERICAN GOVERNMENT	0.5		x	x	x
	AMERICAN ISSUES	0.5		x	x	x
	ANCIENT HISTORY	0.5			x	x
*	AP HUMAN GEOGRAPHY	1	x			
	AP MACROECON	0.5			x	x
*	AP MICROECON	0.5			x	x
	AP PSYCHOLOGY	1			x	x
*	AP U.S. HISTORY	1		x		
	AP U.S. GOVERNMENT & POLITICS				x	x
	GEOGRAPHY	0.5		x	x	x
	GLOBAL STUDIES	1	x			
	INTRO TO EDUCATION	.5			x	x
	MEDIEVAL HIST	0.5			x	x
	REVOLUTIONS	0.5		x	x	x
	SOCIOLOGY	0.5		x	x	x
	U.S. HISTORY	1		x		
	WORLD ISSUES	0.5			x	x
Prerequisite	YOUTH APPRENTICESHIP	Credit	9	10	11	12
	AUTO APPRENTICE	1			x	x
	BANK APPRENTICE	1			x	x
	COMPUTER APPRENTICE	1			x	x
	ENG/DESIGN APPRENTICE	1			x	x
	HEALTH APPRENTICE	1			x	x
	HOSP/TOUR APPRENTICE	1			x	x
	MFG INDUST APPR/STEM	1			x	x
	STEM APPRENTICE	1			x	x

GRAFTON HIGH SCHOOL ACADEMIC OPPORTUNITIES

ADVANCED PLACEMENT COURSES

Advanced Placement is a program of college level courses and exams that give high school students the opportunity to receive advanced placement and/or credit in college. Advanced Placement courses are taught by GHS staff and are weighted 1 extra grade point. In May, the student has the option to take the Advanced Placement test in that subject area. Note: Students may also take the AP exam without taking the related GHS AP course.

More information on AP Courses can be found [here](#).

Grafton High School offers the following AP courses:

AP Art & Design (2D, 3D & Drawing)
AP Biology
AP Calculus AB
AP Calculus BC
AP Chemistry
AP Computer Science A
AP Computer Science Principles
AP English Language & Composition
AP English Literature & Composition
AP Environmental Science
AP German Language & Culture
AP Human Geography



AP Macroeconomics
AP Microeconomics
AP Music Theory
AP Physics I:Algebra Based
AP Precalculus
AP Psychology
AP Research
AP Seminar
AP Statistics
AP Spanish Language & Culture
AP U.S. History
AP U.S. Government & Politics

EARLY COLLEGE CREDIT PROGRAM (ECCP)

This program allows a student in grades 9 through 12 to enroll in a UW System institution, or a private, non-profit institution of higher education, to take one or more nonsectarian courses. Students may earn high school credit, postsecondary credit, or both, if there is not a comparable or current course offered by the district. The deadline to submit an application is March 1st for the fall and October 1 for the spring semester. See the college website for application. Students who have questions about the program should see their school counselor or visit the GHS Counseling [website](#).

START COLLEGE NOW

This program allows high school students the opportunity to take college courses at Wisconsin Technical Colleges. Applications are available on the DPI and Technical College System website. The deadline to submit an application is March 1st for the fall and October 1 for the spring semester. Students who have questions about the program should see their school counselor or visit the GHS Counseling [website](#).

YOUTH APPRENTICESHIP

Credit: .5 credit each semester for the industry-related course and .5 credit each semester for the work experience component

Grades: 11 & 12

Prerequisite: Meet eligibility criteria; complete the application process; selection is by industry representatives



[Youth Apprenticeships](#) are unique opportunities to start preparing for a career while still in high school. One-year and two-year programs combine academic education, occupational instruction and work-based learning with an employer. Apprenticeships are offered in the following areas and can be taken one or two years. More information can be found at [Ozaukee Youth Apprenticeship](#).

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Art, A/V Technology and Communications
- Business Administration
- Education and Training
- Finance
- Government and Public Admin
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering and Mathematics (STEM)
- Transportation, Distribution and Logistics

GHS DUAL CREDIT COURSES

Grafton High School has articulated agreements with various post-secondary institutions around the state, allowing our students the opportunity to earn college credit. For a student to gain college-level credit, certain requirements must be met by the student. Students should contact the instructor of the GHS course to learn more about how these credits can be earned. Below is a list of the courses with current agreements.

GHS Department/Course	College	College Course #	College Credits	Type
Business				
Accounting	MATC	ACCTG-102	3	T.C.
Advanced Accounting	MATC	ACCTG-111	4	T.C.
Business & Merchandising	MATC	BADM-134	3	T.C.
CAPP: Entrepreneurship	UW Oshkosh (CAPP)	BUS-198	3	T.C.
College Personal Finance	UW Oshkosh (CAPP)	BUS-231	3	T.C.
Computer Applications for College & Careers	MATC	COMP SW-106	3	T.C.
Desktop Publishing	MATC	GRDS-110	3	T.C.
Web Page Design	MATC	WEBDEV-119	3	T.C.
Family & Consumer Science				
Advanced Foods & Restaurant Management	MATC	CULMGT-112	2	T.C.
Child Development 1	MATC	CHILDD-148	3	T.C.
Child Development 2	MATC	CHILDD-110	3	T.C.
Social Studies				
Intro to Education	UW Oshkosh (CAPP)	ESED-110	3	T.C.
Science				
PLTW: Biomedical Innovations	Varies			T.C.
PLTW: Principles of Biomedical Science*	Varies			T.C.
PLTW: Human Body Systems*	Varies			T.C.
PLTW Medical Intervention*	Varies			T.C.
Technology & Engineering				
Auto Service	FVTC	MLR 1	4	T.C.
Advanced Autos	FVTC	MLR 2-4	12	T.C.
PLTW: Intro to Engineering Design	UW Green Bay		2	T.C.
PLTW: Principles of Engineering	UW Green Bay		3	T.C.
PLTW: Computer Integ. Manf.	UW Green Bay		3	T.C.
PLTW Engineering Des. & Dev.	UW Green Bay		2	T.C.
World Language				
AP Spanish Lang. & Culture and 1 of the 2 culture classes	UW Green Bay	Spanish 202	14	T.C.
AP German Lang. & Culture	UW Green Bay	German 202	14	T.C.

*Students can work with multiple universities which issue college credit for PLTW courses taken in high school. See the GHS PLTW teachers for more information.

T.C. (Transcribed Credit) = Upon completion of a GHS course, students will receive credit for a college equivalent course that will be placed on the respective college transcript for that student. *Upon completion of the dual credit courses, students will need to contact the issuing college to obtain a copy of the post-secondary transcript.*

CAPP-The Cooperative Academic Partnership Program at the University of WI Oshkosh provides academically eligible high school students the opportunity to earn college credits while still in high school. Students may earn dual credit at UW Oshkosh, providing they meet **one** of the following requirements: Click [here](#) to see which colleges have accepted CAPP credit.

- Class rank in the top 30 percent
- GPA of 2.75 or above (on a 4.0 scale)

UW Green Bay College Credit in High School (CCIHS) program offers the following options for students taking World Language courses: Complete your CCIHS course and earn a B grade or better to earn 11 retroactive credits plus the 3 transcribed credits. Complete your CCIHS course and earn a B/C or a C grade and receive 5.5 retroactive credits plus the 3 transcribed credits.



indicates an Industry Recognized Certificate is available

Industry-Recognized Credentials

Industry-recognized credentials (IRC) are certifications, credentials, or licenses that are vetted by employers and serve to recognize skill attainment needed for recruitment, screening, hiring, retention, advancement, or to mitigate workforce shortages. The IRC is endorsed by a nationally recognized trade association or an organization in a particular industry. An IRC is a verification of a students' qualification or competence through a technical education program.

Course Name

Advanced Foods & Restaurant Management
 Business & Merchandising
 CAPP Entrepreneurship
 Career Internship
 College Personal Finance
 Computer Apps
 Digital Video (Independent Study)
 Metals Fabrication
 PLTW (Any Engineering Course)
 PLTW: Computer Integ. Manufacturing
 Residential Construction
 Systems Repair/Adv. Auto.

Certification Name

Servsafe Certification
 ASK Fundamental Business Concepts
 ASK Concepts of Entrepreneurship & Management
 Wisconsin Employability Skills Certificate
 ASK Concepts of Finance
 Microsoft Office Specialist
 TRUST Drone Certification
 NIMS
 AutoDesk Fusion 360
 NIMS
 Career Connections - Level 3 Certificate
 Automotive Service Excellence (ASE) Certification

GLOBAL SCHOLARS CERTIFICATE

Grafton High School offers a [Global Education Achievement Certificate](#) to high school students who have demonstrated a strong interest in global citizenship by successfully completing a global education curriculum and engaging in cocurricular activities and experiences that foster the development of global competencies. It encourages students to enroll in classes with global content in the arts, sciences, and humanities, and prepares globally competent students who are career ready.

Students may earn a Global Education Achievement Certificate by meeting the following criteria:

- 4 credits of world language in high school, earning a grade of B or better
- 4 credits of additional courses (see list below)
- participate in service or international extracurricular activities
- 8 reflections on international/cultural media (books, movies, lectures, art, and literature)
- provide a minimum of 20 hours of community service with a global emphasis.

In addition to world language, students must take 4 additional credits from the following list:

Business	Business & Merchandising
Social Studies	AP Human Geography, AP Microeconomics, AP Macroeconomics, World Issues, Geography, Ancient History, Medieval History, Revolutions, Global Studies
Science and Technology:	Environmental Science, AP Environmental Science, AP Computer Science Principles, PLTW: Principles of Engineering,
English	World Literature Comp. AP Literature and Composition, AP Research, AP Seminar
Music & Visual Arts:	Art Exploration, Drawing 1, Painting 1, Digital Arts1 & 2, Concert Band, Wind Ensemble, Concert Choir, Chorale, Camerata, AP Music Theory

Students must also participate in 4 of the following clubs or trips/exchanges (list may change each year with new clubs):

Amnesty International	German Club	Spanish Club	Personal Trip Abroad	Jazz Ensemble
Chamber Singers	Art Club	GHS Art Trip	Exchange Program	Military Book Club
FBLA	Leo Club	GHS Sponsored trips	(hosting or living abroad)	Model UN

ART

9th Grade	10-12th Grade	11-12th Grade
Art Exploration 9,10,11,12 .5 credit		AP Art & Design* 11,12 1 credit
Drawing 1 9,10,11,12 .5 credit	Drawing 2 9,10,11,12 .5 credit	
	Drawing 3 10,11,12 .5 credit	
	Painting 1 9,10,11,12 .5 credit	
	Painting 2 10,11,12 .5 credit	Painting 3 10,11,12 .5 credit
	Digital Arts 1 10,11,12 .5 credit	Digital Arts 2 10,11,12 .5 credit
Printmaking 9,10,11,12 .5 credit		
Ceramics 1 9,10,11,12 .5 credit	Ceramics 2 9,10,11,12 .5 credit	
	Ceramics 3 10,11,12 .5 credit	
	Jewelry Metals 1 9,10,11,12 .5 credit	
	Jewelry Metals 2 10,11,12 .5 credit	
	Sculpture 9,10,11,12 .5 credit	
		No Prerequisite

***AP Requirements**

Drawing Portfolio: Drawing 1, Painting 1 and 2 other classes

2D Portfolio: Drawing 1, Painting 1 and 2 other art courses or Digital Arts 1, Digital Arts 2 and 2 other Art courses

AP Art & Design

Credit: 1

Level: 11, 12

Prerequisites:

- **Drawing Portfolio: Drawing 1, Painting 1, and two semesters of art courses**
- **2D Portfolio: Drawing 1, Paint 1, and two semesters of art courses OR Digital Arts 1 & Digital Art 2, and two semesters of art courses**

Fees: \$27.00 for materials \$99.00 for the AP Exam (optional)

This course is for a mature student who has maintained a strong interest in art throughout high school. Work will require a high level of self motivation and a level of dedication beyond that of previous art classes. AP Studio Art will guide you to develop and refine your personal esthetic as well explore new media and techniques. During this process you will develop a portfolio of work that fulfills the AP Board requirements in the areas of quality, concentration and breadth. The portfolios may be in 2D, 3D or Drawing. Prompts, resources, critiques and weekly reviews of your work will be structured into the course, allowing creative freedom to explore, while having benchmarks and deadlines to keep you on task, keeping in mind artistic pursuits toward a sophisticated portfolio of work, worthy of Advanced Placement college credit.

Art Exploration

Credit: .5

Level: 9, 10, 11, 12

Fees: \$4.00 for materials

Students creatively and visually solve specific problems based on a set of criteria while experimenting and engaging both traditional and nontraditional art techniques. Students also research contemporary and historical artists and genres, share research, and articulate their analysis of visual issues through their evolution of artistic ideas and concepts. Students build a creative toolbox of concepts, skills and techniques that will continue to grow as applied to visual communication and problem solving for future art courses.

Ceramics 1

Credit: .5

Level: 9, 10, 11, 12

Fees: \$20.00 for materials

This course will focus on hand-building techniques and the proper use of tools and equipment specific to ceramics. The student will further the development of personal ideas and artistic themes, skills as applied to clay while creating 3D structures with a variety of techniques exercising creative thinking skills.

Ceramics 2

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Ceramics 1

Fees: \$20.00 for materials

This course will focus on learning to throw pots on the potter's wheel. Students will create a series of vessels with different themes and functions. The student will further the development of personal ideas and artistic themes, develop knowledge, skills, and understanding of clay as it is formed on a potter's wheel.

Ceramics 3

Credit: .5

Level: 10, 11, 12

Prerequisite: Ceramics 2

Fees: \$20.00 for materials

This course is for a mature student with a strong interest in art and ceramics. Work will require self-motivation and strong creative thinking skills. Students will specialize in a specific body of work and design projects to meet the instructor's criteria. The student will develop a masterful understanding and in-depth knowledge of ceramics and 3D forms. Students will broaden their ability to effectively use art history, analysis, creative thinking, and evaluation to improve and create works of sophistication.

Digital Arts 1

Credit: .5

Level: 10, 11, 12

This introduction course teaches students how to use Adobe CC to creatively solve artistic design problems. They will learn to create vector images using Adobe Illustrator where students will learn the basics of marketing, branding. Students will work on projects for the community and the school in a professional manner. In Photoshop, they will explore how to create and alter raster images through photography. This course will provide students with an introduction of current digital photo technology as a fine art, documentary, and social media tool. Students will end the class with a Digital Art Portfolio for both graphic based imagery and photography based imagery.

Digital Arts 2

Credit: .5

Level: 10, 11, 12

Prerequisite: Digital Arts 1

Fees: \$5 for Printing \$20 Rental Fee for Camera (if needed)

This course is a continuation of using Adobe CC to creatively solve artistic design problems. Students will learn to express meaning by exploring and using the basic knowledge of shape and space, unity and components such as contrast, hierarchy, psychology of color, and sign and symbol. Students will use available traditional and digital media and work within design constraints. Students will additionally work on projects for the community and the school in a professional manner. They will be exploring Adobe Photoshop and Illustrator using traditional digital tools and digital photography to build their digital portfolio.

Drawing 1

Credit: .5

Level: 9, 10, 11, 12

Fees: \$7.00 for materials

Students will develop a better understanding of drawing techniques as well as experiment with a variety of drawing mediums such as: pencils, colored pencils, oil pastels, pen & ink. Students will expand on drawing techniques studied in foundations and be encouraged to think creatively and build observational skills to improve hyper-perceptive observation and drawing skills.

Drawing 2

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Drawing 1

Fees: \$12.00 for materials

Study will focus on drawing the human form while exploring new styles of drawing. Students will be expected to combine well crafted drawings with creative thinking skills to solve challenging visual problems. Some of the media used may include pen and ink, charcoal, graphite, colored pencil, oil pastel and ink. Students will further advance their understanding and ability to draw using various techniques, media, and creative thinking skills.

Drawing 3

Credit: .5

Level: 10, 11, 12

Prerequisite: Drawing 2

Fees: \$12.00 for materials

This course is for a mature student with a strong interest in art and drawing. Work will require self-motivation and strong creative thinking skills. In this course the student will be exploring new types of drawing as well as further developing craftsmanship and personal drawing style. Students will develop a masterful understanding of drawing with any media and a strong ability to think creatively and apply ideas in a meaningful way.

Jewelry Metals 1

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Art Exploration or Drawing 1

Fees: \$15.00 for materials

Students will investigate skills and techniques to create different types of jewelry using brass, copper, nickel metals. Exploring different techniques including riveting, hard soldering, texturing and patinas as well as the proper use of tools and equipment. The student will further the development of personal ideas and artistic themes, applying creative thinking skills.

Jewelry Metals 2

Credit: .5

Level: 10, 11, 12

Prerequisite: Jewelry Metals 1

Fees: \$15.00 for materials

Students will focus on jewelry forming and refining techniques such as enameling, forging, welding, acid etching, raising sheet metal, and forming techniques. While continuing to use riveting, hard soldering, texturing and patinas within their work. The student will further the development of personal ideas and artistic themes, skills, and understanding of jewelry metal techniques.

Painting 1

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Drawing 1

Fees: \$15.00 for materials

Students will develop fundamental skills and knowledge necessary to create expressive and visually compelling artworks. Through a blend of theoretical and practical exercises students will delve into the intricacies of color theory, composition, and mark making. By exploring a range of painting mediums, including acrylics and watercolor, students will learn to master various techniques.

Painting 2

Credit: .5

Level: 10, 11, 12

Prerequisite: Painting 1

Fees: \$17.00 for materials

Painting 2 builds upon the foundational skills developed in Painting 1, challenging students to explore more complex concepts and techniques with both acrylic, watercolor and mixed media approaches. This course will delve into thematic painting, focusing on form, light and shadow. Students will also learn about the business side of art while creating paintings with the lens of selling them. Lastly students will be creating work to convey specific meaning or narratives, utilizing paint as a way of communicating visually.

Painting 3

Credit: .5

Level: 10, 11, 12

Prerequisite: Painting 2

Fees: \$17.00 for materials

Painting 3 offers an opportunity for students to dive deeper into a specific area of interest within the realm of painting. Whether it's a particular subject matter, such as landscapes, portraits, or abstract forms, or a specific medium such as watercolor, acrylic, or mixed media painting approaches. Students will focus on mastering their chosen area through intensive exploration and experimentation. This course encourages students to refine their artistic vision, develop advanced techniques, and create a body of work that reflects their unique style and perspective.

Printmaking

Credit: .5

Level: 9, 10, 11, 12

Fees: \$16.00 for materials

Students will explore the process of creating prints through various methods such as intaglio, block printing, lithography, and silk screen. The focus will be on developing foundational skills in monochromatic printing, emphasizing design, craftsmanship, and creative problem-solving.

Sculpture

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Ceramics 1

Fees: \$10.00 for materials

This course provides an essential opportunity for students to explore creative expression beyond the confines of traditional 2D mediums like drawing and painting. In this course we will explore three-dimensional art forms, catering to those who want to work with their hands and explore sculptural processes, using an array of materials including clay, plaster, cardboard, and recycled/upcycled items. Students will learn the basics of sculpture, and a variety of building techniques for each material used.



VISUAL
ARTS

BUSINESS & INFORMATION TECHNOLOGY

	9-12th Grade	10-12th Grade	11-12th Grade
Business/ Finance	Business & Merchandising 1 credit	Accounting 1 credit	Advanced Accounting 1 credit
Information Technology	Computer Applications for CCR .5 credit	CAPP Entrepreneurship .5 credit	Career Internship/ Business Co-OP .5 or 1 credit
	Desktop Publishing .5 credit	College Personal Finance .5 credit	
	Digital Video Design 1 credit	Personal Finance .5 credit	
	Game App Design .5 credit	Sports & Entertainment Management .5 credit	
	Web Design .5 credit		

***Can earn college credit in this class.

Sample Business/Finance Pathways

Business Merchandising--Accounting--Advanced Accounting--Career Internship

Business Merchandising--Sports & Ent. Mgmt.--College Personal Finance--CAPP Entrepreneurship

Accounting

Credit: 1

Level: 10, 11, 12

Math Credit: *This course may be used as the 3rd math credit for graduation but most colleges won't recognize it as a college prep math credit.*

MATC Transcribed Course ACCTG102 (3 credits)

Discover how money drives the business world in Accounting! Learn the basics of financial accounting, from balancing budgets to preparing financial statements, and see how these skills power successful companies. Through real-world projects and mock business challenges, you'll gain hands-on experience that prepares you for the business world and beyond.

This isn't just about numbers—it's about strategy, problem-solving, and opening doors to exciting careers. Whether you're dreaming of running your own company or climbing the corporate ladder, Accounting 1 is your first step toward a successful future in business.

Advanced Accounting

Credit: 1

Level: 11, 12

Prerequisite: Accounting

MATC Transcribed Course ACCTG111 (4 credits)

Take your accounting skills to the next level in Advanced Accounting! This hands-on course focuses on advanced financial concepts and real-world business applications to prepare you for success in the professional world.

You'll dive into industry-standard software like QuickBooks to manage accounts, track inventory, and analyze financial data. Plus, you'll get practical experience by helping manage the finances of the school store, The Hawks' Nest. From creating budgets to monitoring profits, you'll see how accounting drives business decisions in real time

Business & Merchandising

Credit: 1

Level: 9, 10, 11, 12

Get ready to supercharge your business acumen! In this exciting journey, students will not only dip their toes but dive headfirst into foundational business skills. We're talking Business Management, Operations, Law, Communications, International Business, Marketing, and Merchandising – the whole business buffet! But wait, there's more! This isn't your typical lecture; this course is a high-energy collaboration extravaganza. Get ready to team up with your fellow business enthusiasts as we tackle projects that'll make your brain cells do the cha-cha.

And guess what? We're not just talking theory here; we're diving into the real deal. Brace yourself for the ultimate Hawks' Nest experience. Picture this: you and your team making strategic decisions about what products to sell, setting prices that make the cash register sing, designing the store layout that'll make customers do a double-take, and that's just the tip of the business iceberg! So, buckle up for a hands-on, minds-on adventure where you won't just learn about business; you'll be running one. Welcome to the business rollercoaster, it's going to be a wild ride!

CAPP Entrepreneurship

Credit: .5

Level: 10, 11, 12

Fees: If taken for college credit, approximately \$315 for 3 college credits. College credit is available through UW-Oshkosh Cooperative

Welcome to the thrilling world of CAPP Entrepreneurship, a high-octane, college-level business class that mirrors the standards set by the University of Wisconsin-Oshkosh (UW-Oshkosh). Get ready to unleash your entrepreneurial spirit as we dive into an immersive journey of discovery, equipping you with the savvy and skills to conquer the dynamic realm of business. This isn't just a class; it's an adventure where learning comes to life through a fusion of cutting-edge theories and hands-on, real-world projects.

But that's not all—brace yourself for the Homecoming T-shirt Project, where you won't just be making cool shirts; you will be selling them for a profit. This class isn't just about learning; it's about earning and turning your entrepreneurial dreams into reality. Join us on this electrifying journey and let the adventure begin!

Career Internship/Business Co-Op

Credit: .5 or 1

Level: 11, 12

This dual program offers students an invaluable opportunity to blend academic learning with real-world experience. Students can choose between two distinct pathways:

1. **Business Education Cooperative (Co-Op):** Students employed in a related business field can earn academic credit while working. The Co-Op experience allows students to apply classroom knowledge directly in their paid positions, gaining hands-on experience in areas like marketing, finance, management, or administration.

2. **Career Internship:** For students interested in exploring a new career field, the internship track offers a chance to work as unpaid interns in a professional setting of their choice. Students will gain practical experience, enhance their career exploration, and build a network of contacts in areas such as education, business, technology, healthcare, and more

This course is open to juniors and seniors who have completed foundational business courses. Placement of the Internship/Co-Op site will be between the student and instructor. Approval from the instructors required.

College Personal Finance



Credit: .5

Level: 10, 11, 12

Fees: If taken for college credit, approximately \$315 for 3 college credits. College credit is available through UW-Oshkosh Cooperative

Note: *This course fulfills the Financial Literacy graduation requirement.*

Welcome to College Personal Finance, a dynamic course designed to empower you with essential skills for navigating the complexities of personal finance. Tailored for college students, this interactive curriculum goes beyond the basics, covering budgeting, credit management, understanding credit cards, and mastering checking and savings accounts. Through real-life case studies and hands-on exercises, you'll gain the knowledge and confidence needed to make informed financial choices.

But that's not all—this course takes a holistic approach to personal finance. Explore the intricacies of saving and investing, participate in a stock market simulation, and delve into critical decisions like buying versus leasing a car and renting versus buying a home. Embrace a comprehensive understanding of these major financial choices and learn how to make strategic decisions that align with your goals. This course isn't just about numbers; it's your roadmap to financial empowerment and a brighter future. Join us on this transformative journey, where you'll not only gain financial knowledge but also develop the skills to navigate your financial landscape with resilience and intelligence

Computer Apps for College & Careers



Credit: .5

Level: 9, 10, 11, 12

MATC Transcribed Course COMPSW-106 (3 credits)

Computer Applications is a computer literacy course in which you will become skilled in Microsoft Office software applications for college, career, and personal applications. Multidisciplinary projects will involve using Word, Excel, Access, PowerPoint and Publisher. You will have the opportunity to become industry certified in the MS Office applications. These certifications will give you added value for college and future work.

Desktop Publishing



Credit: .5

Level: 9, 10, 11, 12

MATC Transcribed Course GRDS-110 (3 credits)

Welcome to the Desktop Publishing course, where creativity meets functionality! This hands-on journey utilizes Adobe InDesign software to empower students in crafting a diverse array of print and digital media, from captivating business cards and dynamic sports team calendars to personalized calendars, menu redesigns, eye-catching wall graphics, and beyond. The focus is on practical application, ensuring students not only understand design principles but also gain proficiency in Adobe InDesign, a vital tool in the world of desktop publishing.

Whether you aspire to a career in graphic design or aim to enhance your visual communication skills, this course is tailored to your goals. Immerse yourself in the intersection of business, graphic design, and technology, and let your creativity flourish as you build a portfolio of stunning designs. In Desktop Publishing, you'll acquire the knowledge and skills to thrive in the dynamic landscape of visual communication, creating print and digital masterpieces that leave a lasting impression.



Digital Video Design

Credit: 1

Level: 9, 10, 11, 12

Embark on a cinematic journey with our Digital Video Design course, where creativity meets technology. This class is an immersive exploration of digital video creation using industry-standard tools, primarily Adobe Premiere. Students will master the art of capturing and editing video, gaining hands-on experience with an array of cutting-edge technologies, including drones, cranes, sliders, and more. From crafting compelling movie trailers and TV pilots to producing engaging infomercials, music videos, and more, students will have the opportunity to bring their creative visions to life through diverse and dynamic projects.

Game and Mobile App Design



Credit: .5

Level: 9, 10, 11, 12

Game and Mobile App Design is an introductory course to coding and app development that will engage you in project-based learning. You will build your games in Construct and publish to a variety of platforms like Android, iOS, Windows, Mac, and the Web. Mobile apps will be built using App Inventor, a cloud-based tool, on an Android platform which is used in smartphones, tablets, and other personal electronics.

Personal Finance

Credit: .5

Level: 10, 11, 12

Note: *This course fulfills the Financial Literacy graduation requirement.*

Math Credit: This course may be used as .5 math credit for students in the graduating class of 2026 and 2027

Take charge of your financial future in Personal Finance! This course is designed to teach you essential money management skills that will last a lifetime.

You'll explore key topics like banking, investing, insurance, credit, and career planning through real-world scenarios and practical activities. Learn how to create budgets, manage accounts, build strong credit, and plan for financial security. Discover how smart investing and informed decisions can help you reach your life goals.

Whether you're planning for college, a career, or long-term goals, Personal Finance gives you the tools to make informed and confident decisions. Start building your financial foundation today!

Sports & Entertainment Management

Credit: .5

Level: 10, 11, 12

Step into the exciting world of sports and entertainment in this dynamic course that takes you behind the scenes of your favorite events! Whether you're a die-hard fan or love the spotlight, you'll explore how the biggest names in the game use management and marketing to create unforgettable experiences.

Learn how to develop sponsorships, plan epic events, design merchandise, and craft promotions that sell out arenas. From creating in-game experiences to mastering ticket sales and endorsements, you'll gain real-world insights into what makes the sports and entertainment industries thrive.

Included in this class are experiences like: hands-on projects that bring your ideas to life, guest speakers from industry insiders and a VIP experience with a professional team (think Green Bay Packers, Milwaukee Bucks, and more!)

If you've ever dreamed of managing the next big game or entertainment event, this course will give you the skills to make it happen. Don't just be a fan—be the one running the show.

Web Design

Credit: .5

Level: 9, 10, 11, 12

In Web Design, you will learn how to create a well designed website that is easy to navigate, and uses appropriate SEO (Search Engine Optimization). Students will take part in the design and maintenance of the Hawks' Nest (School Store) website. A variety of online programs will be utilized to help maintain and manage web pages.



COMMUNICATION ARTS

9th Grade

Literature & Composition 9
1 credit

OR

Literature & Composition 9
Honors
1 credit

10th Grade

American Lit & Comp 10
1 credit

OR

American Lit & Comp 10
Honors
1 credit

Electives

AP Seminar
1 credit*

Publication Design &
Production 1
10, 11, 12
1 credit *

* Does not count toward
Communication Arts
graduation requirement

11th Grade

World Lit & Comp 11
1 credit

OR

AP Language &
Composition
1 credit

OR

AP Seminar
1 credit

Electives

AP Research
1 credit
(prereq: AP Sem)

Publication Design &
Production 1
10, 11, 12
1 credit *

Publication Design &
Production 2
11, 12
1 credit *

12 Grade

AP Literature & Composition
1 credit

AP Language &
Composition
1 credit

AP Seminar
1 credit

AP Research
1 credit
(prereq: AP Sem)

College
Composition
.5 credit

Literature as a
Social Reflection
.5 credit

Creative Writing
.5 credit

Communications
.5 credit

Technical Writing &
Communication
.5 credit

Contemporary
Literature
.5 credit

Electives

Publication Design &
Production 1
1 credit *

Publication Design &
Production 2
1 credit *

American Literature & Composition

Credit: 1

Level: 10

American Literature continues to develop a student's critical and creative thinking skills through reading, writing and speaking. Students will read novels, drama, poetry and non-fiction texts with focus on Native Americans, Puritans, Transcendentalists, the Jazz Age, the Harlem Renaissance, and modern literature. Major assessments include a research essay, literary analysis, on-demand writing and presentations.

American Literature & Composition Honors

Credit: 1

Level: 10

Prerequisite: teacher recommendation

American Literature Honors is designed for students who have displayed strong reading, writing and critical thinking skills. Students will read novels, drama, poetry and non-fiction texts with focus on Native Americans, Puritans, Transcendentalists, the Jazz Age, the Harlem Renaissance, and modern literature. Major assessments include research essay, literary analysis, on-demand writing and presentations. Students in Honors will also take part in a semester-long project based learning Justice Project. Students take this honors level course in preparation for future AP English courses.

AP Language and Composition

Credit: 1

Level: 11, 12

Prerequisite: teacher recommendation

Fee: \$97 for the AP Exam (optional)

This is a college level course. This class is designed to meet the intellectual challenges and workload consistent with the possible curriculums described in entry-level courses in universities and colleges. The course focuses on rhetorical analysis of non-fiction texts and the development and revision of well-reasoned, evidence-centered analytic and argumentative writing. This course directly prepares those students who choose to take an Advanced Placement Test of Language and Composition at the end of the year.

AP Literature and Composition

Credit: 1

Level: 12

Prerequisite: teacher recommendation

Fee: \$97 for the AP Exam (optional)

This is a college level course. This class is designed to meet the intellectual challenges and workload consistent with the possible curriculums described as "Freshman English" in universities and colleges. Students will read and analyze, in discussion and writing, poetry, short story, drama, and the novel. Students will study arguments, including logic and rhetoric. This course directly prepares those students who choose to take an Advanced Placement Test of Literature and Composition at the end of the year.

AP Research

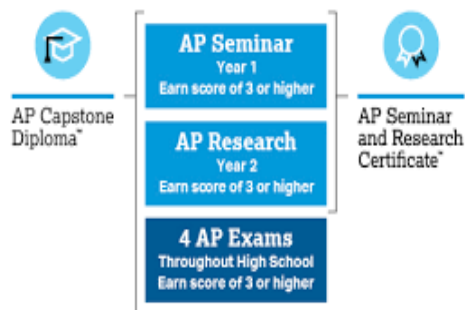
Credit: 1

Level: 11, 12

Prerequisite: AP Seminar. (AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research.)

Fee: \$145 for the AP Exam

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. Find out the benefits of [AP Capstone](#).



AP Seminar

Credit: 1

Level: 10, 11, 12

Prerequisite: Previous or concurrent enrollment in an AP course is recommended

Fee: \$145 for the AP Exam

Note: This course can count toward the senior English requirement if taken senior year

The AP Seminar course is an inquiry-based course that aims to engage students in cross-curricular conversations that explore real-world topics and issues from multiple lenses and perspectives. Students are empowered to collect and analyze information with accuracy and precision in order to craft and communicate evidence-based arguments, both written and orally. The skills practiced and refined in this class are required in the AP Research course, the second course in the AP Capstone program. [AP Capstone Info](#). Benefits of [AP Capstone](#) program.

College Composition

Credit: .5

Level: 12

Prerequisite: World Literature & Composition (can not take if had AP Language & Composition)

This one-semester writing course is for college bound seniors not in an Advanced Placement Language or Literature Composition course. Emphasis will be on expository writing, using critical thinking skills in paragraph and essay writing. Students will be challenged to demonstrate writing skills using more complex content material and sophisticated writing styles in order to equip themselves for college-level writing.

Communications

Credit: .5

Level: 11, 12

Students will engage in speaking and listening activities: intrapersonal, interpersonal, group, and public communication. Throughout the course, students will practice listening and speaking, as well as conversational and advanced questioning skills through games and activities designed to strengthen confidence and understanding. The course is designed to be a practical approach to learning a wide range of skills that will be needed for a university/work environment. By the end of the semester, students will have created tangible products that prove mastery over a range of professional communication skills.

Contemporary Literature

Credit: .5

Level: 11, 12

Prerequisite: World Literature & Composition

Contemporary Literature focuses on internal conflict and the search for an identity, in a complex, changing society. Students will review trends in modern literature and acquaint themselves with the different forms of media used to translate those forms into everyday experiences.

Creative Writing

Credit: .5

Level: 11, 12

Within a performance-based and workshop setting, students will generate various types of artistic writing including poetry, the short story, the screenplay, sensory writing, nonfiction, and a variety of pieces expressing voice. Students will critique others' writing and share their own. From the critiques, students will refine their individual pieces of writing for a performance-based semester portfolio. Throughout the course, they will develop and/or improve artistic writing skills and integrate all facets of language arts: listening, speaking, reading, and writing.

Literature & Composition 9

Credit: 1

Level: 9

Prerequisite: none

Freshmen in Literature and Composition 9 will use fiction, nonfiction, poetry, and drama as vehicles for developing critical reading and literacy skills. Students will improve their language and writing skills, analytical abilities, and creative capacity while writing paragraphs and expository essays, conducting research, and presenting oral projects based on the study of literature. Course goals are to increase students' ability to appreciate and understand the major genres of literature; to study various literary techniques, vocabulary, and characteristics of the major genres; to practice group discussion and oral presentation techniques; to continue to refine their craft of writing; to introduce necessary research skills.

Literature & Composition 9 Honors

Credit: 1

Level: 9

Prerequisite: teacher recommendation

A student in Literature and Composition 9 Honors will explore the Literature and Composition 9 curriculum in greater depth and, in some cases, at a faster pace. A learner in the Honors course thinks critically and creatively, completes tasks independently, produces quality work consistently and in a timely manner, and demonstrates a command of English literacy skills. Honors level students enter freshman year having displayed strong reading, writing, and analytical skills. In addition to the skills practiced in Literature and Composition 9, the Honors course emphasizes literary analysis, logic and reasoning, argumentation, on-demand writing, and discussion in preparation for future Advanced Placement English courses.

Literature As A Social Reflection

Credit: .5

Level: 11, 12

Prerequisite: World Literature & Composition or AP Language

Both historically and today, authors and filmmakers use their literary or cinematic works (novels, plays, poems, documentaries, films, etc.) to reflect the world around them and comment on, critique, or expose the issues facing society. Through a variety of challenging texts, this course explores social issues such as race, gender, and equity. Performance-based class discussions, group projects, and presentations are the foundation for student learning and assessment. Along with exploring texts together as a class or in a group, students will also develop an independent project expressing their own social reflection, to be presented during the final exam period. Ultimately, students will continue to build on literary analysis, writing, and discussion skills introduced in previous classes while exploring issues in modern literature.

Publication Design & Production 1

Credit: 1

Level: 10, 11, 12

Note: *Not approved by the NCAA.*

This is an elective class which does not count toward the graduation English requirement.

The course focuses on the development of published, nonfiction journalistic works for the yearbook and other school and community publications. This includes writing, interviewing, researching, editing and revising skills in workshop format. In addition, students will study design and photography principles while learning Adobe CS as extensions of their written work. Students will also write, produce, edit and publish video announcements in teams throughout the year using professional video equipment and Final Cut Pro.

Publication Design & Production 2

Credit: 1

Level: 11, 12

Prerequisite: Publication Design & Production 1

Note: *Not approved by the NCAA*

This is an elective class which does not count toward the graduation English requirement.

This course is taken by students who have already completed a year of Professional Writing. The course focuses on the advanced development of published, nonfiction journalistic works for the yearbook and other school and community publications. This includes writing, interviewing, researching, editing and revising skills in workshop format. In addition, students will study design and photography principles while learning Adobe CS as extensions of their written work. Students will also write, produce, edit and publish video announcements in teams throughout the year using professional video equipment

Technical Writing & Communication

Credit: .5

Level: 12

Prerequisite: World Literature & Composition

Note: *Not approved by the NCAA*

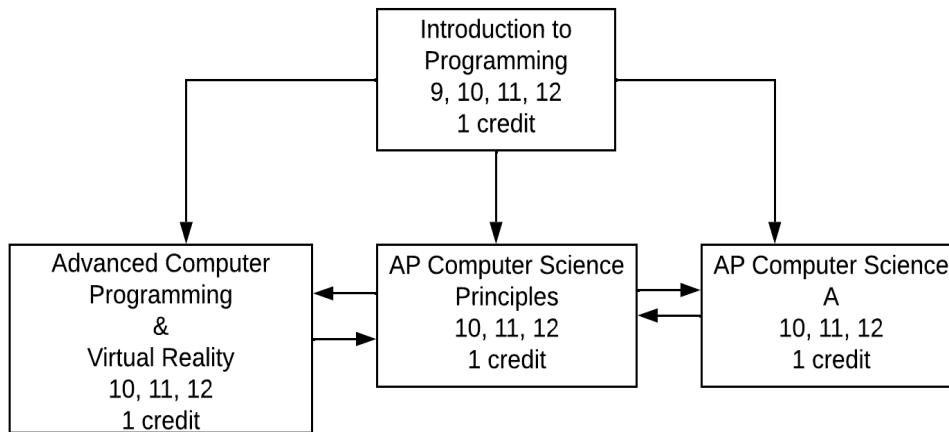
This course focused on real life, practical writing and communication skills. Projects/assignments include: group discussion, research, both oral and written reports on research, task analysis and demonstration, analysis of technical articles and work-related materials, business letters, resumes, and job applications. Students will reinforce reading, writing, research, and critical thinking skills taught during the first three years of high school

World Literature & Composition

Credit: 1

Level: 11

World Literature & Composition is a survey course for juniors to explore their individual relationship to culture and human civilization through the study of ancient, classic, and modern texts. While embarking on a heroic journey through the historical and social influences of cultures throughout the world, students will think critically about literary techniques, perspectives, and major themes of the shared human experience. Students will continue to reinforce previously learned grammar, composition, oral communication, and research skills.



Advanced Computer Programming & Virtual Reality

Credit: 1

Level: 10, 11, 12

Prerequisite: Introduction to Programming or Teacher Approval

During the first semester students will learn how to program using the language C++. The following topics will be covered: history of computers, variable types, selection structures, loops, functions, arrays (1D and 2D) and vectors. By the end of the first semester, students will have created multiple C++ applications. During the second semester, students will learn about the principles of VR technology, including optics, displays, stereopsis, and tracking. By the end of the course, students will have created and deployed a comfortable, high performance VR application using Unity.

AP Computer Science A

Credit: 1

Level: 10, 11, 12

Prerequisite: Introduction to Programming or Teacher Approval

Fees: AP practice book and \$98 for the AP Exam (optional)

AP Computer Science A introduces students to the computer programming language of JAVA. The topics covered include primitive types, using objects, boolean expressions and if statements, iteration, writing classes, arrays, array lists, 2D arrays, inheritance, recursion and larger scale programs recommended from the College Board (AP). Students will analyze code to find mistakes and output, think creatively to solve real world applications, and construct algorithms to solve a problem. Not recommended to take concurrently with Advanced Programming and Virtual Reality.

AP Computer Science Principles

Credit: 1

Level: 10, 11, 12

Prerequisite: Introduction to Programming or Teacher Approval

Fees: AP practice book and \$98 for the AP Exam (optional)

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. There are 5 big ideas in the course framework: Creativity Development, Data, Algorithms and Programming, Computer Systems and Networks, Impact of Computing. Students will use computation tools to analyze and study large data sets, develop effective communication and collaboration skills, be a well-educated citizen who understands how computer science impacts people and society, and design creative artifacts with practical, personal or societal intent.

Introduction to Programming

Credit: 1

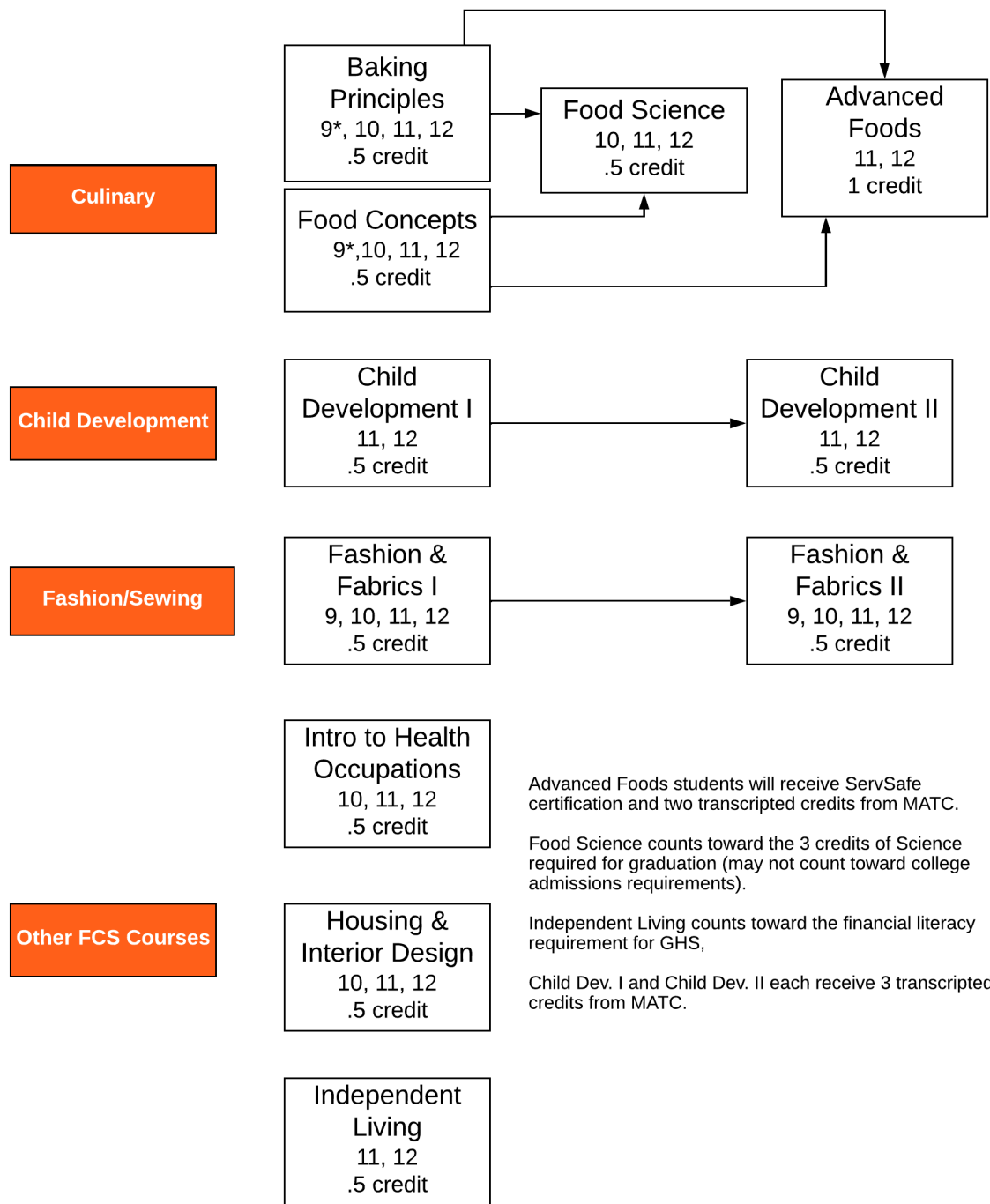
Level: 9, 10, 11, 12

Prerequisite: B or higher in Algebra or Math 8. Math Skills will be used throughout this course.

Math Credit: *This course may be used as the 3rd math credit for graduation but most colleges won't recognize it as a math credit.*

The focus of this course is to introduce computer programming using the language of Visual Basic. Major topics covered are: Graphical User Interface, Event Driven Programming, Variables, Formatting, Selection Statements, Functions, Loops, String Manipulation, Arrays, RAM, ROM, CPU, and Saving and Opening Sequential Files.

FAMILY & CONSUMER SCIENCE



Advanced Foods & Restaurant



Management

Credit: 1

Level: 11, 12

Prerequisite: Food Concepts, or Food Science and Baking Principles earning a C or better in each course.

Fees: \$35.00 (includes ServSafe Certification test)
MATC transcribed course CULMGT-112
(2 credits)

This course will equip students with the advanced skills necessary to enter the food service industry. Students will learn about food service operations including health and safety, workstations, plating and design, and many other roles of the professional chef. Successful chefs must be able to do more than simply prepare delicious recipes; they need to be able to determine costs, manage resources. Students will work on skills necessary to take the ServSafe Food Handler online certification exam. Students who pass the exam will also receive advanced standing from MATC and will be exempt from taking the MATC Food Service Sanitation course. Students will have the opportunity to participate in culinary competitions. The course will include implementing a carry out restaurant for GHS staff while using cost analysis /profit data.

Baking Principles

Credit: .5

Level: 9, 10, 11, 12

Fees: \$30.00

This course will consist of basic baking fundamentals. The study of how ingredients work together and the ratios will give students the freedom to develop their own creative baking recipes. This course will also concentrate on safety techniques, precise measurement, standardized recipes and formulas. The goal is also to introduce food service and food service careers together with fostering creativity in food preparation.

Child Development 1

Credit: .5

Level: 11, 12

MATC transcribed course CHILDD-148
(3 credits)

Students will learn about characteristics needed to be a successful child care provider, learn about child care programs and childcare careers within the industry. This course provides students with an understanding of the physical, cognitive, social and emotional development of children from birth to age 5. The students will learn teaching methods and guidance strategies to prepare lessons that will be taught to preschoolers. A lab experience in the form of a play school that is run by the students is the culminating activity. This will provide an opportunity for the students to plan and implement themed lessons. The goal is for students to gain knowledge of children through teaching and observation of developmental milestones and provide insight and opportunity for students interested in child-related careers or their own future parenting roles.

Child Development 2

Credit: .5

Level: 11, 12

Prerequisite: Child Development 1

MATC transcribed course CHILDD-110
(3 credits)

Students will continue their study and observations of children. The students will learn to observe and assess children within the classroom. The students will continue to learn teaching methods and guidance strategies. This will take place in the form of a preschool play school that is run by the students. The focus on lesson planning will be in the following areas: literacy, science, math, social studies, art, and music. Other areas of study will include health and safety of children and the vast area of careers open to those who wish to work with or for children. After successful completion of Child Development II, students will have a grasp of what it takes to be a child care professional.

Fashion and Fabrics 1

Credit: .5

Level: 9, 10, 11, 12

Fees: \$10.00 for supplies. Additional costs depending on projects chosen

Fashion and Fabrics I is a beginning level class designed for students who have an interest in learning how to sew. Students will learn how to use a sewing machine, and serger, basic sewing construction principles, how to read patterns and follow directions to create a variety of projects. The students will also explore the world of fashion.

Fashion and Fabrics 2

Credit: .5

Level: 9, 10, 11, 12

Prerequisite: Fashion and Fabrics 1

Fees: \$10.00. Additional costs depending on projects chosen

This class is a continuation of Fashion and Fabrics I. This course is designed for students who wish to expand their skills in sewing construction. The students will be using commercial patterns to create projects. The projects created will be based on the individual skill level of the students.

Food Concepts

Credit: .5

Level: 9, 10, 11, 12

Fees: \$30.00

Students will be introduced to basic cooking techniques used in the preparation of food. Cooking labs involve the organization, preparation, tasting, and evaluation of food created by the students. Safety and sanitation, basic measurement skills, nutrition and the principles of food preparation are incorporated into each unit. Students will focus on the use of culinary tools and equipment; food ingredients and their functions; and variations in cooking methods

Food Science

Credit: .5

Level: 10, 11, 12

Prerequisite: Food Concepts or Baking Principles.

Must have either course prior to taking Food Science.

Fees: \$30.00

Note: *This course may be used as a .5 credit of science for graduation but most colleges won't recognize it as a science credit.*

Food science benefits consumers every day with healthier diets, better tasting affordable foods, and increased food safety. Food Science is an exciting area that applies a blend of basic sciences such as biology, chemistry and physics with biochemistry and mathematics to improve the taste, nutrition and value of the world's food supply. The curriculum includes food science experiments using the scientific method. This course will focus on the physical, biological, and chemical makeup of foods and their effects on the human consumer..

Housing and Interior Design

Credit: .5

Level: 10, 11, 12

Students start this course by learning about basic architectural housing styles and features, reading architectural plans, and getting an understanding of the home construction process. Students will learn about the elements and principles of design, the role of color, and how to select furniture and accessories to design aesthetically pleasing interior design. Students will develop a design plan for a fictitious client using presentation boards, samples and scale drawings. Elements of style, color scheme, space plan, backgrounds and furniture placement are considered for their client. This is a project based class that uses a variety of activities to learn about housing and interior design.. Careers in interior design and related occupations are also explored.

Independent Living

Credit: .5

Level: 11, 12

Note: *This course fulfills the Financial Literacy graduation requirement and is similar to the Personal Finance course.*

This is a comprehensive course designed to help students explore many aspects of being a responsible adult. Students will learn about personal development, decision-making, communication, conflict resolution, careers and financial literacy. There is an emphasis on budgeting and managing finances, investing, and insurance. The course prepares students for future life responsibilities.

Introductions to Health Occupations

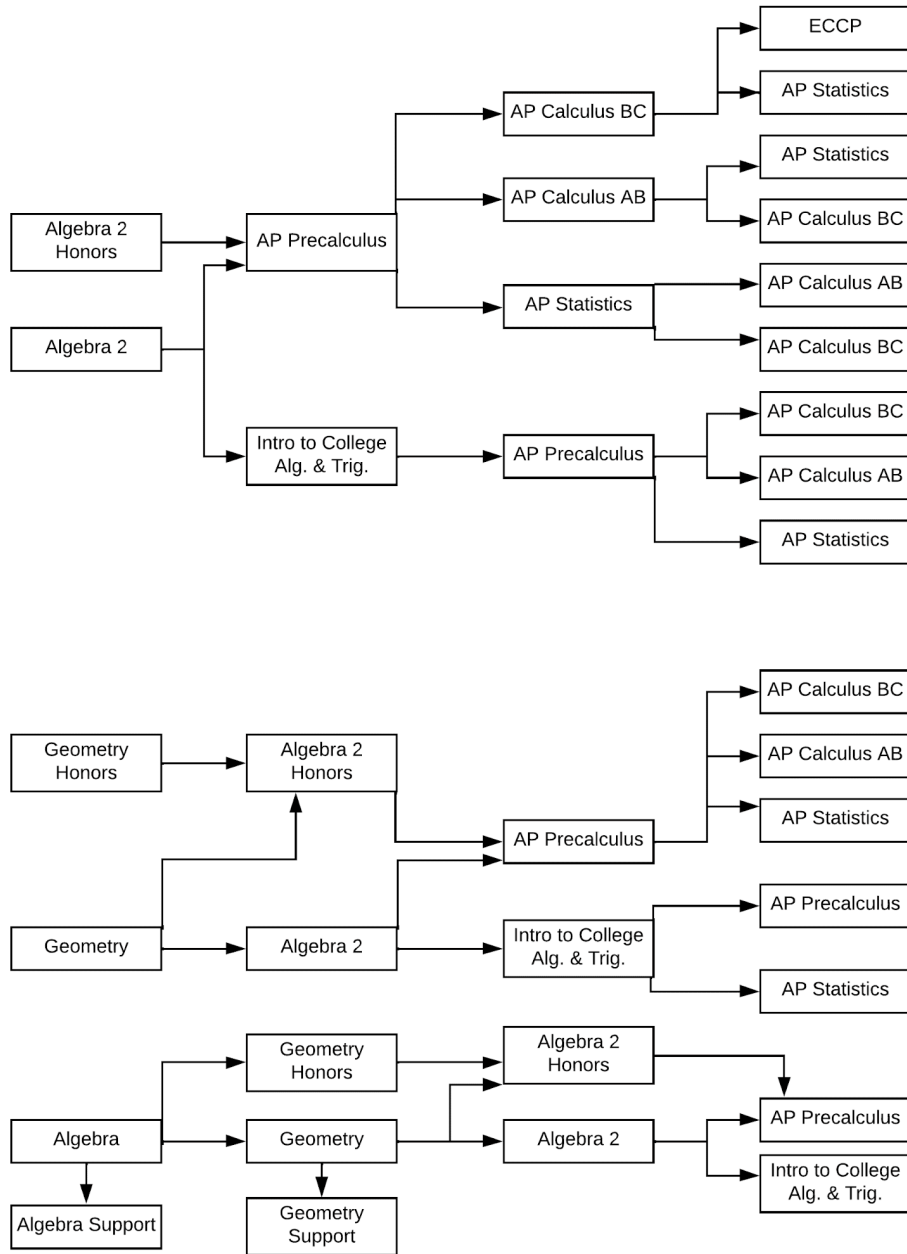
Credit: .5

Level: 10, 11, 12

This course will provide an orientation to the healthcare field. Areas of study include the history and trends of the healthcare field, legal and ethical responsibilities, personal and professional qualities of a healthcare worker, medical terminology, cultural diversity, geriatric care and employability skills.



MATHEMATICS



The following courses will meet GHS math graduation requirements (not college admissions requirements)

1. Accounting
2. Personal Finance - may be used as .5 math credit for students in the graduating class of 2026 and 2027
3. Intro to Programming

Algebra

Credit: 1

Level: 9, 10, 11, 12

Graphing calculator: TI-83 or TI-84

Algebra is the foundation for all upper level mathematics. The purpose of this course is to provide students with a basis for advanced mathematics and aid them in solving mathematical problems. Basic algebraic properties are developed in which the student solves equations, manipulates formulas, and learns graphing techniques. Numerous efforts are made to show meaningful relationships to the areas of science, technology, and other math related areas.

Algebra Support

Credit: .5 per semester

Level: 9

Prerequisite: Test score performance and recommendation of 8th grade teacher. This course does not count toward the math graduation requirement.

Graphing calculator: TI-83 or TI-84

Algebra Support is a course taken concurrently with an Algebra class. Students review and work on prerequisite math skills while also exploring/reinforcing algebra concepts in greater depth than a typical Algebra class would allow.

Algebra 2

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Algebra and Geometry or Geometry Honors

Graphing calculator: TI-83 or TI-84

Algebra 2 is the last of the sequence of three courses that begins with Algebra. Students will build off of their Algebra and Geometry backgrounds and begin their transition to higher level math courses in the math sequence. Topics such as Sequences, Polynomials, Rational Functions, Exponential/Logarithmic Functions, Trigonometric Function and Statistical Inferences are covered in this course. A large part of this course is also helping students prepare for the ACT and grow stronger with their use of the graphing calculator.

Algebra 2 Honors

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Algebra and Geometry or Geometry Honors

Graphing calculator: TI-83 or TI-84

Algebra 2 Honors is an accelerated version of Algebra 2. The greater depth, breadth, speed, and rigor of the course is intended to prepare students for success in future math courses including AP PreCalculus, AP Calculus, and/or AP Statistics. The course is designed for students who are ready to accept the challenge of studying advanced topics from Algebra and Trigonometry. A large part of this course is also helping students prepare for the ACT and grow stronger with their use of the graphing calculator.

AP Calculus AB

Credit: 1

Level: 11, 12

Prerequisite: Satisfactory completion of AP Precalculus

Fees: \$22.00 and \$99 for the AP Exam (optional)

Graphing calculator: TI-83 or TI-84

AP Calculus AB is designed to be the equivalent of a first semester college calculus course devoted to topics in differential and integral calculus. This course features a multi representational approach to calculus with concepts, results and problems expressed graphically, numerically, analytically, and verbally. Students work throughout the year to be prepared to successfully complete the AP Exam in May.

AP Calculus BC

Credit: 1

Level: 11, 12

Prerequisite: Satisfactory completion of AP Precalculus or AP Calculus (AB)

Fees: \$22.00 and \$99 for the AP Exam (optional)

Graphing calculator: TI-83 or TI-84

Units covered include a complete review of material taught in the AP Calculus (AB) course, an introduction to the basic concepts of series, sequences, parametric, vector, and polar functions. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. AP Calculus (BC) is concerned with continuing the students' understanding of the concepts of calculus and providing experience with its methods and applications.

AP Precalculus

Credit: 1

Level: 10, 11, 12

Prerequisite: Completion of Algebra 2 or Algebra 2 Honors

Graphing calculator: TI-83 or TI-84

Fee: \$99 for the AP Exam (optional)

AP Precalculus is designed to be the equivalent of a first semester college precalculus course. AP Precalculus provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college level mathematics courses. This course explores a variety of function types and their applications—polynomial, rational, exponential, logarithmic, trigonometric, polar, parametric, vector-valued, implicitly defined, and linear transformation functions using matrices. Throughout the course, the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are developed. Students experience the concepts and skills related to each function type through the lenses of modeling and covariation and engage each function type through their graphical, numerical, analytical, and verbal representations.

AP Statistics

Credit: 1

Level: 11, 12

Prerequisite: completion of AP Precalculus

Fee: \$99 for the AP Exam (optional)

Graphing calculator: TI-83 or TI-84

This class is highly recommended for college-bound students planning to enter into the health science, social science or business fields. The course covers the language and methods of probability and statistics in the areas of sociology, business, ecology, economics, education, medicine, psychology and mathematics. Several different methods for describing sample data are presented. Measures of central tendency and variation are included. Rules of probability and probability distributions lead into the normal distribution and properties of the normal curve. Sampling techniques, which include simulation and experiment design, and hypothesis testing are stressed in the second half of the course. Students are exposed to many different methods for analyzing data for causation and strength of relationship between two variables.

Geometry

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: completion of Algebra.

Ruler and protractor, compass Graphing calculator: TI-83 or TI-84

Geometry deals with an in-depth understanding of shapes, reading and writing proofs, and the applications and use for postulates and theorems. Items we will focus on are: unique properties of specific shapes in 2D and 3D; lines, planes, angles, congruency, and similarity; writing and understanding proofs; perimeter, area, surface area and volume.

Geometry Honors

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Completion of Algebra with a grade of A or B along with relevant scores on the 8th grade MAPS and Forward tests.

Ruler and protractor, Graphing calculator: TI-83 or TI-84

Geometry Honors is an accelerated version of Geometry. The greater depth, breadth and rigor of the course is intended to prepare students for success in future math courses and eventually AP Calculus and AP Statistics. The course is designed for students with a strong mathematics background and who have a willingness to work hard and be ready to accept a challenge.

Geometry Support

Credit: .5 per semester

Level: 10, 11, 12

Prerequisite: Algebra Teacher recommendation. This course does not count toward the math graduation requirement.

Ruler and protractor, compass, Graphing calculator: TI-83 or TI-84

Geometry Support is a course that will be taken concurrently with a Geometry class. Students will work on prerequisite basic math skills, as determined by the teacher of the Geometry class. Students will be exploring and reinforcing Algebra concepts that are identified as necessary in the Geometry curriculum.

Intro to College Algebra & Trigonometry

Credit: 1

Level: 11, 12

Prerequisite: Completion of Algebra 2 or Algebra 2 Honors

Graphing calculator: TI-83 or TI-84

The purpose of this course is to provide students with a strong mathematical foundation in preparation for college or upper level high school mathematics. It is primarily intended to be a 4th year math class. The first part of this course will cover exponents, radicals, solving linear and quadratic equations, solving inequalities, equations of lines and their graphs, graphical transformations of functions, domain, range and composite functions. The second semester will focus on Trigonometry: right triangle properties, trigonometric functions and graphs, inverse trig functions, rational functions, logarithms, systems of equations and matrices.

MUSIC

AP Music Theory

Credit: .5

Level: 10, 11, 12

Prerequisite: Music Theory

Fees: \$98 for the AP Exam (optional)

Students must also be enrolled in band or choir. In this class we will study advanced topics of music theory and notation. Activities will include written and aural examples of concepts. Content includes composition, harmonic progression, seventh chords, and modulation. Students will complete the semester by writing their own music composition. This course is for any advanced music student but is strongly recommended for students who seek to complete a collegiate major or minor in music. Students will learn to apply musical knowledge to become better at identifying and using the correct written and aural application of music within the western context. The class also prepares students to take the Advanced Placement test in May. Receiving a passing grade on the test can earn a student up to 10 college credits.

Camerata

Credit: 1

Level: 10, 11, 12

Prerequisite: Audition

Camerata is an auditioned, women's, intermediate ensemble. This ensemble is ideal for students who have mixed choral ensemble experience and want to pursue single-gender choral studies. Students will learn about women's ensemble repertoire as well as the differences from mixed to single-gender singing through performance. The course includes topics such as vocal pedagogy techniques, sight reading, basic music theory, and a wide array of cultural and historical perspectives through repertoire selection for female voices. Reflection, analysis, and excellence are the pillars of the course. Participation in WSMA Solo and Ensemble Festivals is optional, but highly encouraged. Placement in Camerata is by audition only. It is important to note that grade level bears no factor in determining enrollment in any ensemble at GHS. Skill level and work ethic are the determining factors in the audition process.

Chorale

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: None

Chorale is a non-auditioned, open mixed, and the entry level choral ensemble. This ensemble is ideal for students who are just entering high school and/or who have limited prior choral ensemble experience. Students will learn about basic choral singing through performance. The course includes topics such as vocal pedagogy techniques, sight reading, basic music theory, and a wide array of cultural and historical perspectives through repertoire selection. Reflection, analysis, and excellence are the pillars of the course. Participation in WSMA Solo and Ensemble Festivals is optional, but highly encouraged. Placement in Chorale is by default should a student choose not to audition for concert choir.

Concert Band

Credit: 1.0

Level: 9, 10, 11, 12

Prerequisite: None

The GHS Concert Band is open to all band students. This ensemble is the entry level consisting of freshmen and sophomores. This course begins the high school level of musicianship and lays the foundation necessary for success in upper division ensembles. Emphasis is placed on student engagement and on solid fundamentals for instrumental techniques. This is done through rigorous and challenging repertoire for the age and technical abilities of ensemble members. Membership in Concert Band is by default should a student decide not to audition into upper division ensembles, but it is important to note that grade level bears no factor in determining enrollment in any ensemble. Skill level and work ethic are the determining factors in the audition process. Music performed in Concert Band is typically of a 2.5 to 3.5 difficulty or "Easy" to "Medium-Easy." All students enrolled in any band at GHS are required to march as a member of GHS Marching Black Hawks. Our impressive marching ensemble performs a halftime field show at all home football games and marches in various parades in our school and community. Students will also take part in the GHS Pep Band which performs at all home football game and a selection of home basketball games.

Concert Choir

Credit: 1

Level: 10, 11, 12

Prerequisite: Audition

Concert Choir is an auditioned, open mixed, and advanced level choral ensemble. This ensemble is ideal for students who have a minimum of one year experience in a high school entry level ensemble. Students will learn about advanced choral repertoire and skills through performance. The course includes topics such as vocal pedagogy techniques, sight reading, music theory, chamber music, basic conducting opportunities, and a wide array of cultural and historical perspectives through repertoire selection. Reflection, analysis, and excellence are the pillars of the course. Participation in WSMA Solo and Ensemble Festivals is optional, but highly encouraged. Those choosing not to participate will go through the process of preparing for the Solo and Ensemble Festival and then perform works for the class or in another manner at the discretion of the instructor. Placement in Concert Choir is by audition only. It is important to note that grade level bears no factor in determining enrollment in any ensemble at GHS. Skill level and work ethic are the determining factors in the audition process.

Fundamentals of Theater

Credit: .5

Level: 11, 12

Prerequisite: None

This course is designed for students who have an interest in theater, the application of theatrical theory, or the technical aspects of production and/or production design. It will provide an introduction to reading and writing scripts, directing, acting, and theater technology. Exposure to all elements of a production, from initial stages of selecting a show to creating programs and programming lighting or audio devices, will be covered. Students enrolled in the course will be given hands-on experiences with concurrent running of the school's annual musical, including lights, sound, hair, makeup, set design, stage management, technical direction, and personnel management. Students will develop a well-rounded theatrical experience that will instill an appreciation for theater arts and prepare them for a future in this area.



Jazz Ensemble

Credit: 0.5

Level: 10, 11, 12

Prerequisite: Audition and/or Instructor Consent

Jazz Ensemble provides instruction and development in the musical genre of jazz which may include, but is not limited to, the study of: the blues, salsa, mambo, tango, bossa nova, bebop, hard bop, rhythm and blues, funk, funk-rock, the shuffle, big band dance, ballads, and swing. This ensemble is open to students by audition and/or instructor consultation and consent and meets OUTSIDE of the academic school day. Rehearsals may take before or after school with occasional weekend commitments as performances draw nearer. Students should expect an opportunity to study and perform high quality jazz ensemble literature and to learn basic skills involving improvisation within the jazz idiom. Emphasis is placed on the widely accepted basics of swung eighth notes and jazz articulations through the study of etude books and technical method books as well as charts for jazz ensemble. Jazz Ensemble performs in community events, concerts, and at jazz festivals across Wisconsin and the Midwest. Those in this ensemble or who plan to be are strongly encouraged to audition for the WSMA State Honors Jazz Ensemble. Instrumentation: For winds and rhythm section, a traditional big band instrumentation is sought after as outlined below. Exceptions to this philosophy are at the discretion of the director. Prior enrollment in any jazz ensemble does not guarantee enrollment.

Alto Saxophone – 2	Piano – 1/2
Tenor Saxophone – 2	Piano Guitar – 1
Baritone Saxophone – 1	Electric Bass – 1
Trombone – ¼	Drum Set – 1/2
Trumpet – ¼	Auxiliary Percussion & Vibraphone – 1

Non-Traditional Instruments: Flutes, Clarinets, Euphoniums, French Horns, etc. are accepted at the discretion of the director.

Music Appreciation

Credit: .5

Level: 9, 10, 11, 12

Note: *No prior music experience necessary*

Music Appreciation is open to all students at GHS.. In Music Appreciation students will learn what it is about music that makes us enjoy it. Students will also learn about many genres of music, and discuss the histories of each genre and how composers and artists make us feel things when we listen to music.

Music Theory

Credit: .5

Level: 10, 11, 12

The Music Theory course is designed to enhance music skills and basic music fundamentals and is open to any GHS student. Music is purposefully and intentionally constructed, and this course will educate the music student as to why music works in the ways it currently does. The essential aspects of melody, harmony, rhythm, and form are studied. Throughout the course of the semester students will study basic notation, scales, key signatures, intervals, triads, cadences, non-chord tones, transposition, form, part-writing, 4-part chorale style writing, counterpoint in various species, and analysis of a score. Aural dictation, sight singing, and ear training are also an integral part of the course and will be taught in conjunction with the content listed prior. Individual creativity is nurtured through both rhythmic and melodic composition. This course is highly recommended for students in a musical ensemble, for those thinking of pursuing any type of post-secondary music education, and is a prerequisite for AP Music Theory. The concepts listed above are essential for success in AP Music Theory, and will most definitely be a determining factor in deciding whether a not a student should undertake AP Music Theory.

Wind Ensemble

Credit: 1

Level: 10, 11, 12

Prerequisite: Concert Band or Director Approval

The GHS Wind Ensemble is the most advanced ensemble offered at Grafton High School. Enrollment in Wind Ensemble is earned or in some cases, a consultation with the director. It is important to note that grade level has no factor in your enrollment in any ensemble at GHS. Concert Band is mostly underclassmen and Wind Ensemble is mostly upperclassmen but there are always a few students that cross over for various reasons. Skill level and work ethic are the primary factors in determining your enrollment in an ensemble at GHS. Scheduling should not hinder your ability to be in band so please speak with the director if you have a conflict. Compared to Concert Band, there are some additional opportunities for performance like performances at other GSD schools or in the community. Music performed in Wind Ensemble will largely lie around the Grade 3.5-5.5 range or Medium to advanced. All students enrolled in any band at GHS are required to march as a member of the GHS Marching Black Hawks. The Marching Black Hawks perform a field show during halftime of the homecoming game (and possible other home games) as well as a few parades in the community. Students will also take part in the GHS Pep Band which performs at all home football games and a selection of home basketball games.

PHYSICAL EDUCATION & HEALTH

9th Grade

- Health
- Phy Ed 9

10-11th Grade

- Net Games
- Officiating
- Outdoor Adventure
- Personal Fitness
- Strength Training
- Advanced Strength Training
- Team Sports
- PE Leadership

12th Grade

- Net Games
- Officiating
- Outdoor Adventure
- Personal Fitness
- Phy Ed 12
- Strength Training
- Advanced Strength Training
- Team Sports
- PE Leadership

High School Requirements:

1.5 credits of Physical Education and .5 Credits Health

Students will participate in a variety of health-enhancing physical activities to promote a healthy and active lifestyle. They will demonstrate responsible personal and social behavior by exhibiting self control, cooperative skills, appropriate sports related behavior, and regard for safety.

Advanced Strength Training

Credit: .5

Level: 10, 11, 12

Prerequisite: Strength Training or teacher approval

Fees: \$10

Course can be repeated

This course is designed for students who wish to continue their expertise in strength training. Students who have taken Strength Training (or receive instructor approval) and wish to excel in this area would benefit from this course. The course will focus on building strength training and agility knowledge. This course is designed for students who have experience in the development of strength, speed, agility and flexibility. The focus of this class is to use body weight, free weights, and Olympics lifts to develop overall strength, core stabilization, flexibility, and injury prevention.

Health

Credit: .5

Level: 9

This course is designed to have individuals successfully develop, establish, and achieve positive lifestyle goals. To develop health promotion and prevention of health problems. The topics discussed in this class include but are not limited to: Health Promotion, Substance use and Abuse, Nutrition and Eating Disorders, Mental Health and Wellness, as well as Human Growth and Development.

Net Games

Credit: .5

Level: 10, 11, 12

Fees: \$10

The emphasis of this class will focus on lifetime and recreation activities and the continued development of overall fitness. The activities in this class may include, but are not limited to: golf, tennis, badminton, pickleball, table tennis, archery, aquatics and personal fitness. Each unit will give instruction on skill, strategy and relevant fitness concepts.

Officiating

Credit: .5

Level: 10, 11, 12 (grade 10 with teacher approval)

This course will focus on teaching students how to officiate different sports. Throughout this course students will become a registered (WIAA) official in a sport of their choice along with learning how to officiate a variety of other sports. For each sport we learn how to officiate, the students will be learning the rules to the game, proper positioning while the game is going on, how to handle situations with players, coaches, and parents, as well as other situations an official might encounter. The class will require active participation in simulated games in order to allow students to gain experience being an official. The sports that the course will focus on are, but not limited to: soccer, baseball, softball, basketball, football, and volleyball.

Outdoor Adventure

Credit: .5

Level: 10, 11, 12

Prerequisite: PE 9 and Health

Fees: \$25

Students who have a passion for the outdoors will experience hiking, rock climbing, camping, fishing, orienteering, archery, biking, curling, kayaking, and much more. Winter lessons will include cross country skiing, snowshoeing and winter camping skills.

Personal Fitness

Credit: .5

Level: 10, 11, 12

Fees: \$10

Course can be repeated

This course investigates personal fitness and wellness. Students will engage in a variety of activities that improve cardiovascular endurance, muscular strength, muscular endurance and flexibility. An emphasis is placed on students developing a basic understanding of a variety of exercise techniques. Activities in class include, but are not limited to: yoga, kettlebell workouts, fitness activities, weight training, Zumba, Pilates, step aerobics and water aerobics.

Physical Education 9

Credit: .5

Level: 9

This course is designed to develop fundamental skills in individual and team activities. An emphasis is placed on student understanding of the reason for and value of physical activities as well as current techniques. The activities in this class may include, but are not limited to: lacrosse, soccer, ultimate frisbee, volleyball, basketball, biking, tennis in-line skating, aquatics, CPR/AED training and fitness activities.

Physical Education 12

Credit: .5

Level: 12

Fees: \$10

Students will participate in a variety of team, individual and net sports. The emphasis in this class will focus on recreational activities. Activities in class include, but are not limited to: tennis, table tennis, badminton, basketball, floor hockey, curling, bowling, aquatic team games, volleyball, triball, softball and golf.

Phy Ed Leaders

Credit: .5

Level: 10, 11, 12

Prerequisite: PE9 With Teacher Approval/Application Completion

Students in P.E. Leadership are trained to assist with the instruction and supervision of students in Adapted P.E. Peer leaders are exposed to the education of students who have varying abilities. Peer leaders will follow the department policies on dressing, attendance, and assessment. Emphasis is placed on individual participation and leadership. Units include both team and individual sports, skills for Special Olympic competitions, weight training, aerobics, and fitness testing. This course is limited to approximately 5 students per semester based on need.

Strength Training

Credit: .5

Level: 10, 11, 12

Fees: \$10

Course can be repeated

Students will learn about human movement science while also participating in a wide variety of weight training, strength training and conditioning activities. Students will explore human muscle anatomy, various exercise tests, performance training and other alternative methods of training. The students will be in the fitness center and gymnasium training an average of four days per week, with one day of cross training.

Team Sports

Credit: .5

Level: 10, 11, 12

Fees: \$10

This class will focus on lifetime and recreational activities and the continued development of overall fitness. The activities in this class may include, but are not limited to: softball, cooperative games, floor hockey, ultimate frisbee, basketball, lacrosse, bowling, curling, speedball, team handball, volleyball, flag football, soccer, aquatics and badminton.



SCIENCE

9th Grade

*Biology
1 credit

or

*Biology Honors
1 credit

Elective

PLTW: Principles
of Biomedical
Science
1 credit

*Biology or Biology
Honors is required for
graduation

PLTW
Pathway

10-12th Grade

Chemistry
1 credit

Chemistry
Honors
1 Credit

Environmental
Science
.5 credit

Geological Earth
Science
.5 credit

Material Science
.5 credit

Physics
1 credit

PLTW: Human
Body Systems
1 credit

Space Science
.5 credit

11-12th Grade

PLTW: Medical
Intervention
1 credit

AP Biology
1 credit

AP Chemistry
1 credit

AP Environmental
Science
1 credit

AP Physics
1 credit

12th Grade

PLTW: Biomedical
Innovation
1 credit

AP Biology

Credit: 1.5

Level: 11, 12

Prerequisite: Biology and Chemistry; recommendation by the Science Department staff

Fee: \$96 for the AP Exam (optional)

AP Biology is a rigorous, year-long weighted course designed to be taught on a first-year college level. Upon completion of the course the student will be prepared to take the AP Biology Exam which, if passed, may give the student up to 10 hours college credit in Life Science. Student's independent study of each unit is critical to their success as class time is devoted to discussion and lab activity. Units of study include:

- The process of evolution drives the diversity and unity of life
- Biological systems utilize energy and molecular building blocks to grow, reproduce, and maintain homeostasis
- Living systems retrieve, transmit, and respond to information essential to life processes
- Biological systems interact and these interactions possess complex properties

AP Chemistry

Credit: 1.5

Level: 11, 12

Prerequisite: Chemistry; Physics recommended. recommendation by the Science Department staff

Fees: \$20. \$98 for the AP Exam (optional)

AP Chemistry is a rigorous, year-long weighted course designed to be taught on a first-year college level. Upon completion of the course the student will be prepared to take the AP Chemistry Exam which, if passed, may give the student up to 10 hours college credit in Chemistry. Student's independent study of each unit is critical to their success as class time is devoted to discussion and lab activity. Units of study include Stoichiometry, Thermochemistry, Electron Structure of Atoms, Chemical Equilibrium, Gasses, Solubility Equilibria, Oxidation/Reduction, Electrochemistry, and Acids and Bases.

AP Environmental Science

Credit: 1

Level: 11, 12

Prerequisite: Chemistry (or concurrent enrollment) and recommendation by the Science Department staff

Fees: \$96 for the AP Exam (optional)

AP Environmental Science is a rigorous, year-long weighted course designed to be taught on a first-year college level. Upon completion of the course the student will be prepared to take the AP Environmental Science Exam which, if passed, may give the student up to 3 hours college credit in Environmental Studies. AP Environmental Science is presented using a project-based approach, immersing students in real-world problems while introducing them to the topics that are critical to their success: Student's independent study of each unit is critical to their success as class time is devoted to discussion and lab activity. Units of study include Earth Systems, Biogeochemical Cycles, Soil Science, Agriculture, Ecology, Population Studies, Land Use, Energy Resources and Consumption, Global Climate Change, and Pollution.

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AP Physics 1

Credit: 1

Level: 11, 12

Prerequisite: Chemistry and AP Precalculus (or concurrent enrollment with AP Precalculus).

Fees: \$98 for the AP Exam (optional)

AP Physics I is a rigorous, year-long weighted course designed to be taught on a first year college level. Upon completion of the course, the successful student should be able to take and pass the AP Physics I Exam which, if passed, may give the student up to 5 college credits depending on the university. The course is divided into Newtonian mechanics. rotational motion, energy conservation, collisions, rotational dynamics and fluid mechanics. Extensive use of math is required. Students must be in a minimum of Pre-Calculus to enroll and concurrent enrollment in a calculus course is recommended. Additionally, there will be a field trip to the Kalahari or other suitable entity for the study of motion.

Biology

Credit: 1

Level: 9

Note: Biology is a required course for graduation

Biology is the study of ecology, cell biology/microbiology, biochemistry, enzymes and metabolism, molecular biology and techniques, heredity, and evolution. Students will learn to apply the concepts central to biology, while gathering and interpreting data during laboratory experiments.

Biology Honors

Credit: 1

Level: 9

Prerequisite: Teacher Recommendation

Biology Honors integrates the same topics as Biology but at an increased pace with greater depth and focus on science process (data gathering and analysis, experimental design). Students will also have increased exposure to inquiry based lab activities.

Chemistry

Credit: 1

Level: 10, 11, 12

Prerequisite: It is recommended that students who earn a C+ or lower in Algebra wait one year to take Chemistry.

Fees: \$20

Chemistry is a lab intensive course where students will problem-solve, think critically, analyze and collaborate while studying the structure of matter and the changes it undergoes.

Topics investigated include atomic and molecular structure, chemical reactions, stoichiometry, and periodic table. Students will demonstrate their understanding of concepts through several lab practicals throughout the course. Students that do not meet the prerequisites listed above should wait a year to take Chemistry and enroll as a Junior to have better success.

Chemistry Honors

Credit: 1

Level: 10, 11, 12

Prerequisite: It is recommended that students had successful completion of Geometry and Biology with a B or better and have successfully completed Algebra 2 or are concurrently enrolled.

Fees: \$20

Accelerated Chemistry integrates the same topics as Chemistry but at an increased pace with a greater depth and focus on mathematical applications, data analysis, and predictions. Chemistry Honors is highly recommended for students interested in taking AP Science courses and upper level PLTW courses.

Environmental Science

Credit: .5

Level: 10, 11, 12

Prerequisite: It is recommended that students are either concurrently enrolled or have completed Chemistry.

Topics explored include: current environmental events, waste disposal, air quality, water quality, soil pollution, and endangered species. You will also help in the Testing the Waters activities at the Milwaukee River. Introductory concepts involving environmental science that go beyond biology, showing the interrelation between the student and the environment will also be included.

Geology and Earth Systems

Credit: .5

Level: 10, 11, 12

Prerequisite: None

Geology and Earth Systems is designed to interpret and understand the world around you. In order to do so, students will investigate and study the interactions between the four major Earth's spheres, including the geosphere, atmosphere, hydrosphere and biosphere in order to explain Earth's formation, processes, history, landscapes, how and why Earth changes over time. Topics to be addressed include, but are not limited to, the scientific method, mapping Earth's surface, minerals, rocks, plate tectonics, earthquakes, volcanoes, and geologic time. Students will participate in laboratory exercises, small group activities, web based investigations, class discussions, projects, and research.

Introduction to Material Science

Credit: .5

Level: 10, 11

Prerequisite: Biology. This course should be taken before Chemistry, as it helps prepare students for further physical science courses.

Fees: \$15

Material Science is a lab-intensive course that will focus on the fundamental relationship between the structure, properties, processing and performance of materials. Students will study the metal, polymer, ceramics/glass and composite material families. Material Science will help prepare students for Chemistry, therefore it may only be taken prior to Chemistry, not concurrently.

Physics

Credit: 1

Level: 10, 11, 12

Prerequisite: Algebra 2 and Chemistry (or concurrent enrollment in both)

In Physics, students will design experiments, analyze data, create graphs, and synthesize information into conclusions. These skills will be applied to motion, projectiles, forces, energy, collisions, electricity, sound and optics. Students will have the opportunity to collect data in a "real-life" situation at the Kalahari (waterpark and amusement park) field trip. The Physics class is designed to prepare students for college-level science as well as the ACT.

Students have shown to be more successful in Physics if they have completed Chemistry first, and are enrolled in a math class of Algebra 2 or higher.

PLTW: Principles of Biomedical Science

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Biology (or concurrent enrollment)

Fees: \$25

Students explore concepts of biology and medicine as they take on roles in different medical professions to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. This course is designed for 9th or 10th grade students. *This course is eligible for a college transcript with a grade, transcribed credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions.* Visit <https://www.pltw.org/experience-pltw/student-opportunities> for more information.

PLTW: Human Body Systems

Note: Anatomy and Physiology course

Credit: 1

Level: 10, 11, 12

Prerequisite: Biology, Chemistry or concurrent enrollment in Chemistry. **PLTW: Principles of Biomedical Science is encouraged but not required.** Students enrolled in AP science courses who are interested in this course can enter directly into PLTW: HBS.

Fees: \$25

Students examine the interactions of body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. *This course is eligible for a college transcript with a grade, transcribed credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions.* Visit <https://www.pltw.org/experience-pltw/student-opportunities> for more information.

PLTW: Medical Intervention

Credit: 1

Level: 10, 11, 12

Prerequisite: Biology, Chemistry or concurrent enrollment in Chemistry. Recommended completion of Principles of Biomedical Science and/or Human Body Systems.

Fees: \$25

Medical Intervention guides students through the life of a fictitious family as they investigate how to prevent, diagnose and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; conquer cancer; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. *This course is eligible for a college transcript with a grade, transcribed credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit <https://www.pltw.org/experience-pltw/student-opportunities> for more information.*

PLTW: Biomedical Innovation

Credit: 1

Level: 11, 12

Prerequisite: Biology, Chemistry and 2 additional PLTW courses. Highly motivated individuals who excel at project-based learning. AP Biology and/or AP Chemistry are encouraged but not required.

Fees: \$25

This is the final course in the PLTW Biomedical Science sequence. Students will build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. *This course is eligible for a college transcript with a grade, transcribed credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit <https://www.pltw.org/experience-pltw/student-opportunities> for more information.*

Space Sciences

Credit: .5

Level: 10, 11, 12

Prerequisite: Algebra

Space Sciences includes the study of the Earth-moon-sun system, the solar system, human space exploration, the galaxy and the universe. Students will learn how processes in space work, how scientists study space and how space technology affects our life on Earth. Students will be able to explain how phenomena such as phases of the moon, seasons and auroras are caused. Students will participate in hands-on labs, which will at times involve the use of basic math, including ratios and other basic skills from algebra and pre-algebra. Students will learn about theoretical astronomical concepts like black holes and string theory. Students will also understand space technology, such as GPS and communications satellites, are used and how they can be affected by events in space such as solar flares.

Zoology/Botany

Credit: .5

Level: 10, 11, 12

Prerequisite: Biology

Fees: \$25

Zoology/Botany will explore diversity of life, with an emphasis on zoology and botany. It involves hands-on dissection of multiple organisms for the purpose of comparative studies of anatomical systems. Additionally, students will have access to the GHS greenhouse to grow many of their own plants for laboratory purposes. Although the focus will be on the plant and animal kingdoms, fungi and protists may also be covered.



SOCIAL STUDIES

9th Grade

Global Studies*
9
1 credit

OR

AP Human
Geography*
9
1 credit

*Required 9th grade:
Global Studies
or
AP Human Geography

**Required 10th grade:
US History
or
AP US History

***Required to take
American Government
or
AP US Government &
Politics

10th Grade

US History **
10
1 credit

OR

AP US
History**
10
1 Credit

American
Government***
10, 11, 12
.5 credit

Geography
10, 11, 12
.5 credit

Sociology
10, 11, 12
.5 credit

Revolutions
10, 11, 12
.5 credit

American
Issues
10, 11, 12
.5 credit

11-12th Grade

Ancient History
11, 12
.5 credit

Medieval History
11, 12
.5 credit

World Issues
11, 12
.5 credit

AP
Macroeconomics
11, 12
.5 credit

AP
Microeconomics
11, 12
.5 credit

AP Psychology
11, 12
1 credit

AP US Gov.
Politics
11, 12
1 credit

Intro to
Education
11,12
.5 credit

American Government

Credit: .5

Level: 10, 11,12

Note: This course, or AP US Government and Politics, will meet the American Government/Civics course requirement for graduation

This course focuses on the formation and purposes of governments as well as the creation, organization and powers of the Legislative and Executive Branches of the Federal Government. This course also focuses on the Federal Judiciary, as well as rights and responsibilities as a citizen. The purpose of this class is to acquaint the student with an understanding of the institutions of democracy and the organizations of the Executive, Legislative, and Judicial branches.

American Issues

Credit: .5

Level: 10, 11, 12

This course will help develop an ability to rationally discuss current issues in American policy from factual and research. Reading, debate, library research, and small group discussion are emphasized in this class. Students will use current event materials and will explore important trends in modern America. Students will analyze our country today focusing on current events.

Ancient History

Credit: .5

Level: 11, 12

Early Human development, Egyptian Society, Mesopotamian Society, Greek Society, and Roman Society are examined. Students will be able to develop a system of note taking that allows them to prepare for comprehensive single question essay question tests. Students will analyze various procedures for preparing and taking an essay test as a means of finding a system that will work for them in content oriented college courses. Students will be graded on not only the essay's content but on the form of the essay itself. There will be three term papers throughout the semester.

AP Human Geography

Credit: 1

Level: 9

Prerequisite: Recommendation from Middle School Social Studies Teacher and Parent Permission

Fees: \$98 for the AP Exam (optional);

\$15 fee for purchasing the AP Human Geography Ultimate Review Packet online subscription.

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students will learn about the methods and tools geographers use in their science and practice. On successful completion of the course the students should be able to: use and think about maps and spatial data, understand and interpret the implications of associations among phenomena in places, recognize and interpret at different scales the relationships among patterns and processes, define regions and evaluate the regionalization process, characterize and analyze

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changing interconnections among places. Interested students may take the Advanced Placement Human Geography examination in the spring.

AP Macroeconomics

Credit: .5

Level: 11, 12

Fees: \$15 fee for purchasing the AP Economics Ultimate Review Packet online subscription. The subscription includes a video for each of the units in AP Economics. It also includes review note outlines, key terms, and vocabulary for each unit. The subscription also has practice tests and quizzes for each unit; **\$98 for the AP Exam (optional)**

Note: This course fulfills the financial Literacy graduation requirement for students in the graduating class of 2026 and 2027

The purpose of Macroeconomics is to provide students a thorough understanding of GDP, unemployment, inflation, the role of consumers, business, and government in the macro economy, international trade, taxes, the Federal Reserve, national debt, and the deficits. Students will focus on problem solving and critical thinking skills in this course. Serious economic problems such as national debt, inflation/stagflation, recession, depression, trade imbalance, taxing and savings rates, banking reform, etc. will be explored with potential solutions to the economic problems presented. Students will be tested based on their ability to logically apply various economic theories to real world problems.

AP Microeconomics

Credit: .5

Level: 11, 12

Prerequisite: AP Macroeconomics

Fees: \$15 fee for purchasing the AP Economics Ultimate Review Packet online subscription. The subscription includes a video for each of the units in AP Economics. It also includes review note outlines, key terms, and vocabulary for each unit. The subscription also has practice tests and quizzes for each unit; **\$98 for the AP Exam (optional)**

Note: This course fulfills the financial Literacy graduation requirement for students in the graduating class of 2026 and 2027

In Microeconomics, the study of the laws of supply and demand are expanded and focused on, the role of business and markets, theory of the firm and factors of production, choices between Wages, Labor, and Capital, Externalities, Public v Private Goods, Tax Shifting. Students will focus on problem solving and critical thinking skills in this course. Various microeconomic concepts such as individual and business supply/ demand, elasticity, and markets will be explored with potential solutions to economic problems presented using marginal analysis. Public and private goods as well as taxes and their impact will also be studied. Students will be tested based on their ability to logically apply various economic theories to real world problems. Students will have the opportunity to take two AP exams, Microeconomics and Macroeconomics, in May.

AP Psychology

Credit: 1

Level: 11, 12

Fees: \$98 for the AP Exam (optional)

The goal of this course is to examine the mental processes and behaviors of individuals in society today. It is a college level course that students can earn 3 college credits if they take and pass the AP Psychology exam. Topics vary from the physiological workings of the brain and nervous system-to the abstract workings of the mind. Historical study will be included focusing on the works of a variety of early Psychologists. The course will also study development, motivation, emotion, consciousness, learning, and memory. Units dealing with abnormal psychology, treatment, and social psychology will tie many of the different ideas together. The course includes an emphasis on content knowledge and application, requiring high level thinking skills and an in depth approach to the material.

AP United States Government and Politics

Credit 1

Level 11,12

Prerequisite: Recommendation of previous social studies teacher

Note: This course, or American Government, will meet the American Government/Civics course requirement for graduation

AP United States Government and Politics curriculum is designed to give students an analytical perspective on government and politics in the United States. Students will study both general concepts used to interpret U.S. politics and examine specific examples of those concepts. The AP Government course requires students to learn facts and concepts, understand typical political processes, and be able to explain important Supreme Court cases. The course will require students to master historical and analytical skills, including; chronological and spatial thinking, historical research and interpretation. Students will evaluate viewpoints presented through major print and electronic media, understand statistical data and analyze trends related to significant political events. Emphasis is placed on applying problem-solving and critical-thinking skills, interpreting graphs and tables, organizing information, evaluating information, and communicating orally and in writing. The course aims to help the student to participate effectively and democratically in American political society.

AP U.S. History

Credit: 1

Level: 10

Prerequisite: recommendation of Freshman Social Studies teacher.

Fees: \$15 fee for purchasing the AP US History Ultimate Review Packet online subscription. The subscription includes a video for each of the units in AP US History. It also includes review note outlines, key terms, and vocabulary for each unit. The subscription also has practice tests and quizzes for each unit. \$98 for the AP Exam (optional)

Note: U.S. History or AP U.S. History is required for graduation

The AP U.S. History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full year college introductory courses. Students should learn to assess historical materials and their relevance to a particular historic problem. AP U.S. History will help students develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Geography

Credit: .5

Level: 10, 11, 12

A study of the history of the social, economic, and political structure of nations of several continents and countries of the World. Examples: Africa, U.S.A., South Asia, Australia, etc. In the process of studying these nations and their locations, the history of each culture is stressed. A special emphasis is given to the many cultures that have enriched the U.S. Students will review map-reading skills and be able to locate the major landforms and countries on a map and globe. Students will analyze through videos, films, articles, and projects the great diversity of cultures in the world today, determining those things that are similar in all cultures and those things that may differ from culture to culture.

Global Studies

Credit: 1

Level: 9

Note: This course or AP Human Geography is required for graduation

Global Studies focuses on the study of physical geography, culture, history, economics and current events around the globe. The course will include studying those themes across North America, Europe, Africa, Asia and Oceania.

Introduction to Education



Credit: .5

Level: 11, 12

Pending: College credit is available through UW-OshkoshCooperative Academic Partnership Program (CAPP) for students who meet program requirements. More information can be found [here](#).

The intent of this course is for students to become better informed about the Pre-K to 12th grade teaching profession. Students will explore the history and culture of K-12 education through multiple lenses with emphasis on becoming aware of roles needed for schools to function successfully. Students will reflect on their own educational journey, examine teacher standards, techniques used to engage all students, interact with education stakeholders, and look critically at issues within education.

Students will have the opportunity to attend site visits and explore different schools and classroom settings, analyze what it is like to be a teacher, and lead discussion and activities in the classroom.

Medieval History

Credit: .5

Level: 11, 12

A study of the political, social, and economic development of people and their society from the Fall of Rome up to the Renaissance. There will be three term papers throughout the semester. Students will analyze various medieval writings including biographies, essays, journals, etc.; comparing and contrasting the ideas found in those writings to modern day concepts. Students will be able to describe medieval life and thought in broad categories, supporting this with facts found in the readings. Students, ultimately, will be able to describe the Medieval World in the context of people and ideas, noting those ideas that were unique to that era and those that are common to humanity at any time.

Revolutions

Credit: .5

Level: 10, 11, 12

This course examines why revolutions occur and their significance. The course will cover content from the Renaissance to current day. Major revolutions that will be focused on include: The Reformation, French and Russian Revolution and China and Cuba. These revolutions will be used as case studies to learn the different signs and stages of revolution and examine political and social impacts.

Sociology

Credit: .5

Level: 10, 11, 12

Basic Sociology including sociological technique and research, culture, groups, personality, social class and the family. Students will analyze social problems and issues to better understand behavior. Students will learn to factually and rationally discuss the problems and issues of human behavior. Students will learn through discussions, case studies, videos, simulations, etc. explore and seek to understand other people's points of view. Students will learn to listen to controversial issues, gather data, and factually respond to issues.

U.S. History

Credit: 1

Level: 10

Note: U.S. History or AP U.S. History is required for graduation

A study of the major historical events from approximately 1861-1933 is presented in the first semester and a study of the major historical events from 1933 to the present is presented in the second semester. In both semesters a special effort is made to correlate the influences of the political, social, and economic factors to our world today. This final required social studies class is designed to give students a broad understanding of our nation's history. It primarily deals with our history from the post Civil War/Reconstruction era to the present. This course focuses on the diversity of our history in the last century. The course will look at the various problems our country has faced and how we have solved them.

World Issues

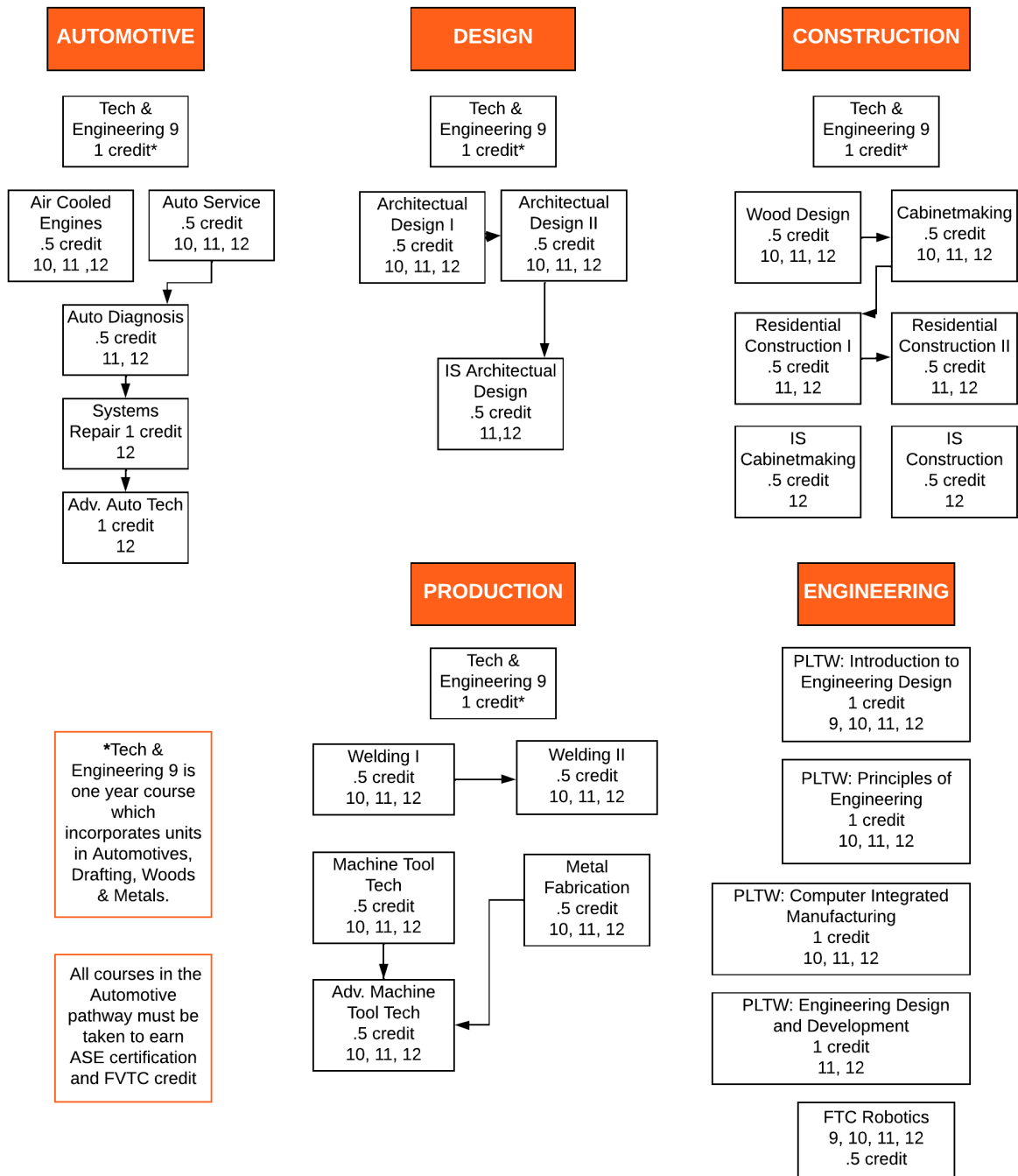
Credit: .5

Level: 11, 12

Students will learn how to use current information and historical background to make reasoned judgments about current problems and issues in the world. Students will seek through research, discussion and lecture to understand others points of view concerning contemporary world issues. Students will have a greater awareness and appreciation for the global climate in which they live and be aware of current occurrences across the globe. The course provides background on U.S. foreign policy and the people and organizations which shape it. Students will have an understanding of problems facing the world today, as well as a historical understanding of conflict in different regions of the world.



TECHNOLOGY & ENGINEERING



Recommended Engineering Sequence:

PLTW: IED → PLTW: POE →

PLTW: CIM → PLTW: ED

Advanced Autos

Credit: 1 (2nd semester/every day)

Level: 12

Prerequisite: Final grades of "B-" or better in Auto Service, Auto Diagnosis, and Auto Systems Repair. Instructor approval needed.

Fees: \$35 lab materials

Note: FVTC transcribed course for 12 credits

This course explores automotive engine overhaul, manual transmission and clutches, automatic transmission, air conditioning theory. It is expected that all information and skills from *prerequisite courses* be able to be applied during Advanced Auto Tech labs. The class offers at least one hour every day of lab time since more intense projects such as engine and transmission overhauls will be attempted. Students enrolled in this class will be required to perform high quality vehicle service in a time frame that is competitive with industry flat rate. Students in automotive competitions are required to be enrolled in this class. Content is based on ASE Standards and *accomplishing ASE tasks A1, A2, A3 & A7 is a major emphasis*. Career Pathways in transportation, distribution, and logistics will be emphasized. Students will finalize their understanding of total vehicle repair and service. This course will prepare the student for entry level positions in the field of automotive repair. It will also give them an edge in technical college courses involving automobile service and repair. *Students with career goals in mechanical engineering will also benefit from the course*. During the semester, students will take the ASE Student Certification Exam that is in each ASE Area A1-A8 and AST.

Fox Valley Technical College Credit Opportunity

FVTC and Grafton High School have partnered to offer students the option of earning FVTC credit while still in high school. In alignment with our ASE recertification and Fox Valley Technical College partnership students are required to complete all courses in the automotive sequence and earn (Tech-9, Air-Cooled, Auto Service, Auto Diagnosis, Auto Systems Repair) a B- or higher in each course. Also, students enrolled in Advanced Autos will be expected to attend BHT on Thursdays and Fridays throughout the school year.

Advanced Machine Tool Technology

Credit: .5

Level: 10, 11, 12

Prerequisite: Machine Tool Tech or Metal Fabrication

Fees: \$35 project fee

This is an advanced level course designed to give students a deeper understanding of computer aided machining processes (CNC). Students will use a variety of software to design and program parts machined on a variety of CNC machines. Advanced Machine Tool Technology is recommended for all students, especially those looking to pursue a career in engineering or take part in a youth apprenticeship.

Air-Cooled Engine Technology

Credit: .5

Level: 10, 11, 12

Fees: \$20 lab materials plus any personal engine parts needed

Note: This course is a prerequisite for Auto Service Technology if planning on taking all the automotive classes in order to earn post-secondary credits and ASE certifications. If a student is exploring the automotive options and does not plan on taking Systems Repair and Advanced Autos, this would be an appropriate course.

Students will perform disassembly, measuring, testing, diagnosis, repair, and reassembly of power equipment and air-cooled engines. Tests on current production engines will be emphasized. The student will learn the operational characteristics of both 2 stroke-cycle and 4 stroke-cycle engines. A special emphasis on electrical engine systems and transaxles will be included in the subject matter. Students will also be introduced to the concepts considered in engineering an internal combustion engine. Students may service their own engines and will work on shop engines that are in the 2 through 20 horsepower range.

Architectural Design 1

Credit: .5

Level: 10, 11, 12

Fees: \$5 lab fee

To further acquaint students with residential architectural designs, including the designing and drawing of a residential home and a brief study of building codes, and structural symbols. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized.

Architectural Design 2

Credit: .5

Level: 10, 11, 12

Prerequisite: Architectural Design 1

Fees: \$5 lab fee

To permit students interested in architectural drawing to further their studies in more complicated structural problems. To design electrical, plumbing and heating systems, cost analysis, modular components, specifications, and building loads. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized.

Auto Diagnosis

Credit: .5

Level: 11, 12

Prerequisite: Instructor approval needed.

Fees: \$35 lab materials

This is an *advanced level course* that is strictly "driveability-oriented". There is a heavy emphasis on electrical and electronic theory. The student will learn diagnostic procedures involving the use of professional test equipment such as oscilloscopes, digital volt-amp-ohm meters, infrared exhaust analyzers, computer scan tools, precision measuring tools, and a

variety of pressure, vacuum, leakage, temperature and sound testing devices. There is as much theory as there is hands-on emphasis in this course. It is designed for the student seriously considering a career in some type of repair, engineering, or testing of automobiles and their systems. Content is based on ASE Standards and *accomplishing ASE tasks A6 & A8 is a major emphasis*. Career Pathways in transportation, distribution, and logistics will be emphasized. This class is taken in preparation for Systems Repair and Advanced Auto Tech.

Auto Service



Credit: .5

Level: 10, 11, 12

Prerequisite: Instructor approval needed.

Fees: \$35 lab materials

FVTC transcribed course for 4 credits

This is an entry-level course in the study of the automobile and its systems. It will meet the needs of the students who just want to know more about the motor vehicles they will be driving, as well as the first course in the full progression of the automotive technology program. This course requires no previous mechanical experience. Students will learn through a combination of regular class work (written assignments, lectures, discussions, and tests) and hands-on lab activities, based on ASE Standards. By using professional service and testing equipment, the student will become safe and lightly skilled at routine service and maintenance of automobiles. Career Pathways in transportation, distribution, and logistics will be emphasized. *Auto body work is not covered in class.*



Auto Systems Repair

Credit: 1 (1st semester/every day)

Level: 12

Prerequisite: Final grades of "B-" or better in **Air-Cooled Engine Technology, Auto Service and Auto Diagnosis**. Instructor approval needed.

Fees: \$35 lab materials

Auto Systems Repair lightly covers all previously learned diagnosis and testing of vehicle systems. In addition, the new emphasis is on steering, suspension, brake and chassis systems. Students will learn repair and service procedures on anti-lock brake systems, will perform front wheel alignments, tire mounting and balancing and replacement of major steering and suspension components. This is truly a class that is concerned with performing major vehicle repairs. Content is based on ASE Standards and *accomplishing ASE tasks A4 & A5 is a major emphasis*. Career Pathways in transportation, distribution, and logistics will be emphasized. Since this is a first semester-senior year class, selection for automotive competitions is made from the students enrolled in this class by taking the ASE MLR test. A high ability level and an interest in an automotive career is a usual characteristic of a student taking this *advanced level course*. This class is taken in preparation for Advanced Auto Tech.

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Cabinetmaking

Credit: .5

Level: 10, 11, 12

Prerequisite: Wood Design

Fees: \$35 for materials; additional fees may be charged depending on projects

The student will develop an understanding of the more advanced wood machine procedures and safety of the machines. The student will become acquainted with the occupational requirements related to the cabinetmaking field. The student will work on one self-designed project. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized.

FTC: Robotics

Credit: .5

Level: 9, 10, 11, 12

Fees: \$25 for competition costs

Prerequisite: A background in programming, electronics or engineering design. Completion of Introduction of Programming and/or Principles of Engineering and/or a prior member of FIRST Lego League or Instructor Approval.

Students in First Tech Robotics will design, build and program a robot to perform a specific task specified by the First Organization. Additionally, students will be asked to connect with community organizations to raise funds for their team. There will be additional time required outside of school hours as we approach competition dates. Competition dates will typically be on a Saturday or Sunday in the months of December, January and/or February. This is a course students can take every year and can earn up to a total of 2 credits. Students unable to fit this course into their schedule can still participate as a member of FTC outside of the school day

Machine Tool Technology

Credit: .5

Level: 10, 11, 12

Fees: \$35 project fee

This is an entry-level course designed to give students a basic understanding of computer aided machining processes (CNC). Students will use a variety of software to design and program parts machined on a CNC mill. Machine Tool Technology is recommended for all students, especially those looking to pursue a career in engineering or take part in a youth apprenticeship.

Metal Fabrication

Credit: .5

Level: 10, 11, 12

Fees: \$35 project fee

This is an entry-level course designed to give students an understanding of basic machining and metalworking processes. Students will develop machining skills and knowledge necessary for manufacturing and engineering careers. Class projects may include: tic-tac-toe game, shovel, dice, and a handcart. Metal Forming is recommended for all students, especially those looking to pursue a career in engineering or take part in a youth apprenticeship.

PLTW: Computer Integrated Manufacturing



Credit: 1

Level: 10, 11, 12

Fees: \$35 lab materials

This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students will explore how CNC machines and robots are utilized to produce a manufactured product. This course will provide students interested in an engineering pathway the opportunity to explore possible engineering careers.

PLTW: Engineering Design & Development



Credit: 1

Level: 11, 12

Fees: \$20 lab materials

Note: Must take at least two of the following courses in order to enroll in PLTW Engineering Design & Development.

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

PLTW: Introduction to Engineering Design



Credit: 1

Level: 9, 10, 11, 12

Fee: \$20 lab materials

This is the first PLTW course in the Engineering career pathway. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. This course will provide students interested in an engineering pathway the opportunity to explore possible engineering careers.

PLTW: Principles of Engineering



Credit: 1

Level: 10, 11, 12

Fee: \$20 lab Materials Principles of Engineering is a team-based advanced course providing opportunities for students to explore engineering content related to energy,

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Power, materials, Control systems, robotics and Statistics. Students will apply engineering related math and science while completing activities and projects. This course will provide students interested in an engineering pathway the opportunity to explore possible engineering careers.

Residential Construction 1

Credit: .5

Level: 11, 12

Prerequisite: Wood Design or senior standing

Fees: \$30 lab materials

The student will work on a "mock-up" of a single story ranch house. The student will be able to estimate the cost for building a house. The student will experiment with all phases of rough construction including: foundations, framing of floors, walls, doors/windows, ceilings, and roofs. The student will develop the ability to read and interpret blueprints. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized. Career Pathway in Architecture and Construction using Project Book 3, student gains 500 apprenticeship hours for the SEWCTC (Southeast Wisconsin Carpentry Training Center)

Residential Construction 2



Credit: .5

Level: 11, 12

Prerequisite: Residential Construction 1

The student will work on a "mock-up" of a single story ranch house. The student will experiment with all phases of finish construction work including: basic electrical wiring, basic plumbing, interior finished wall coverings, window/door installations, advanced roof framing, roof coverings, and siding. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized. Career Pathway in Architecture and Construction using Project Book 3, student gains 500 apprenticeship hours for the SEWCTC (Southeast Wisconsin Carpentry Training Center)

Technology & Engineering 9

Credit: 1 (four 9-week segments)

Level: 9

Fees: \$35 lab materials

Note: This course is a prerequisite for Air-Cooled Engine Technology if planning on taking all the automotive classes in order to earn post-secondary credits and ASE certifications. However, if a student is only exploring the automotive options and does not plan on taking Systems Repair and Advanced Autos this class is not a prerequisite.

This course is a study of the technologies used in business and industry. Every nine weeks the students will experience a different area of technology. They will study metals and manufacturing, power and transportation, woodworking, and computer-aided drafting and design. They will learn by operating hand tools, machinery, equipment, and software in each area

Welding 1

Credit: .5

Level: 10, 11, 12

Fees: \$35 lab materials. Student must furnish approved welding gloves

Students will explore the following weld processes with main emphasis on GMAW:

SMAW (ARC Welding), Oxy-Fuel – Cutting, GMAW (Mig Welding), GTAW (Tig Welding), and CNC plasma Cutting. Course content will explore Career Pathways related to manufacturing, and develop the entry level skills needed to pursue a Youth Apprenticeship at a local manufacturing company. This course is designed to teach students the fundamentals of welding in a wide range of positions. All students will work towards completion of entry level welding standards. Students will build a race car chassis for a Formula High School Racecar.

Welding 2

Credit: .5

Level: 10, 11, 12

Prerequisite: Welding 1

Fees: \$35 lab materials. Student must furnish approved welding gloves

Students will explore the following weld processes with main emphasis on GMAW:

Independent Seminar-Cabinetmaking

Credit: .5 or 1

Level: 11, 12

Prerequisite: Wood Design, Cabinetmaking, Mechanical Design, and teacher approval

Fees: varies depending on project

The student will have the opportunity to explore advanced areas of study related to the cabinetmaking field. The student and the instructor will decide, in advance, the area or areas to be studied. The student will have the opportunity to observe the operation of a cabinet shop within the community.

Independent Seminar-Construction

Credit: .5 or 1

Level: 12

Prerequisite: Residential Construction I and II, Architectural Drafting, and teacher approval

The student will have the opportunity to explore advanced areas of study related to the construction field. The student and the instructor will decide, in advance, the area or areas to be studied. The student will have the opportunity to observe the operation of a residential construction company within the community.

Independent Seminar – Welding 3

Credit: .5 or 1

Level: 11, 12

Prerequisite: Welding 2 and teacher approval

Fees: Varies depending on projects

The student will have the opportunity to explore advanced areas of study related to a career in the welding field. The student and instructor will decide the areas to be studied.

SMAW (ARC Welding), Oxy-Fuel – Cutting, GMAW (Mig Welding), GTAW (Tig Welding), and CNC plasma Cutting. The course will place an emphasis on welding in vertical positions. Major course project includes completion and operation of a Formula High School race car. All students will work towards mastery of entry level welding standards that can lead to manufacturing youth apprenticeship opportunities and competition in SkillsUSA Welding Events.

Wood Design

Credit: .5

Level: 10, 11, 12

Fees: \$35 for materials; additional fees may be charged depending on projects

The student will develop an understanding of the basic wood machine procedures and safety of machines. The student will become acquainted with the occupational requirements related to the woodworking field. The student will work on six assigned projects. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized.

Independent Seminar - Machining

Credit: .5 or 1

Level: 12

Prerequisite: Advanced Machine Tool and teacher approval

Fees: Varies depending on projects

The student will have the opportunity to explore advanced areas of study related to a career in the machining field. The student and instructor will decide in advance the area or areas to be studied, and projects to be completed.

Independent Seminar – Arch Design

Credit: .5 or 1

Level: 11, 12

Prerequisite: Architectural Design I and II, teacher approval

Fees: Varies depending on projects

The student will have the opportunity to explore advanced areas of study related to the mechanical or architectural design field. The student and the instructor will decide, in advance, the area or areas to be studied. The student will work on multiple short-term projects relating to the area or areas being studied.

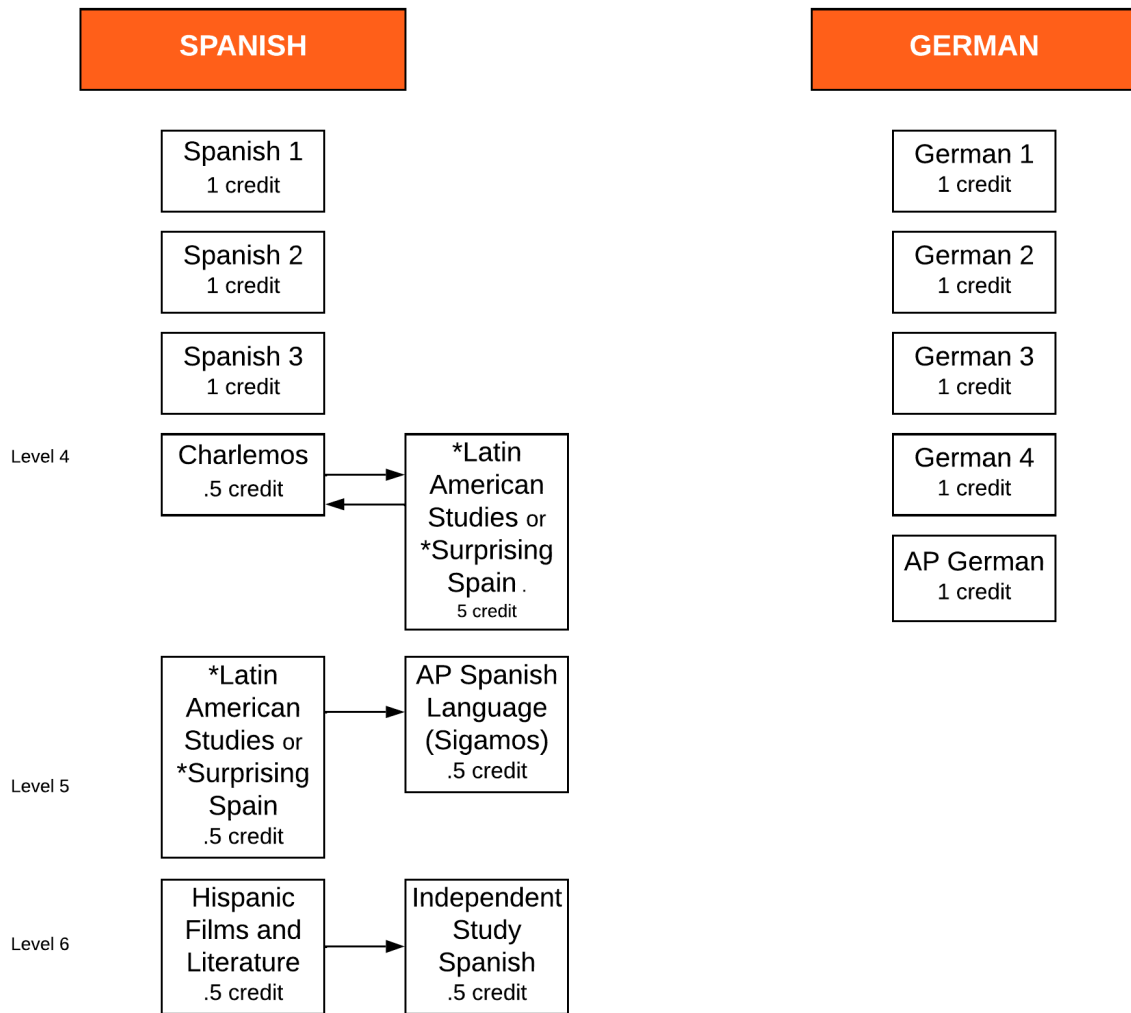
Applied Interdisciplinary Math

Credit: ¼ per approved Tech/Engineering course

Level: 10, 11, 12

Applied Interdisciplinary Math (AIM) is a math credit embedded into select Technology and Engineering (T&E) classes. Please see your school counselor with any questions.

WORLD LANGUAGES



** Each course is offered every other year*



AP German Language & Culture

Credit: 1

Level: 12

Prerequisite: German 4

AP German Language and Culture is a rigorous college course designed for highly motivated students to improve their German proficiency and knowledge. Instruction is in German, with an emphasis on refining and expanding speaking, reading and writing, working toward an advanced low to mid level of proficiency. Authentic texts, films and materials are provided. Themes include: International Business, the Environment, Science and Technology, Music and Poetry, and Comparisons of Family and Society. Students will obtain skills to help qualify for professional work in various areas such as business, teaching, translating and interpreting, and become prepared to attend German courses as a college freshman.

GERMAN COLLEGE CREDIT OPPORTUNITY:

The University of Wisconsin Green Bay and Grafton High School have partnered up to offer students the option of earning UW college credit while in high school. Students sign up for German 5 their senior year and German 202 through UW Green Bay. If students earn an average of B or better, they will earn 3 credits for the UW Green Bay German 202 course and 11 retroactive credits. UW Green Bay determines the tuition in August.

GERMAN TRIP OPPORTUNITY:

A student trip to our partner school in Germany is offered every other year. All German students in good standing may participate.



AP Spanish Language

Credit: .5

Level: 12

Prerequisite: Charlemos, Spanish 3 and both cultural classes

This course will be a comprehensive review of advanced grammatical concepts focusing heavily on the subjunctive mood in the present. This course will include a variety of authentic reading/listening sources such as: short stories, poems, proverbs, music, and a movie in Spanish. All four skills of reading, writing, listening and speaking will be covered. This class is conducted almost exclusively in Spanish.

SPANISH COLLEGE CREDIT OPPORTUNITY:

The University of WI - Green Bay and Grafton High School have partnered up to offer students the option of earning UW credit while still in high school. To be eligible for this program, students must enter Spanish 2 as freshmen. The prerequisite is three years of high school Spanish. Students will need to sign up for and take both AP Spanish and the last cultural studies Spanish course in their senior year. Students will also sign up for Spanish 202 through the University of WI- Green Bay. If students earn an average of B or better, they will earn 3 University of WI credits and 11 retroactive credits. Any questions, please see your Spanish teacher and/or school counselor. UW Green Bay determines the cost of the 3 credits in August prior to school starting.

Charlemos

Level 4 conversation course

Credit: .5

Level: 11, 12

Prerequisite: Spanish 3

A major focus of the course is development of the ability to converse. We will review and add new grammar structures and vocabulary. This course will help the students be able to use Spanish orally whether in a foreign country or living and working in the United States.

German 1

Credit: 1

Level: 9, 10, 11, 12

German 1 is an introduction to the language and culture of the German-speaking countries. Students are actively engaged as they learn to speak, listen, read, and write German at a basic level. Topics of study include: the classroom, time and numbers, weather and calendar, food and family, free time activities, food and clothing. Culture, geography and grammar are integrated into each unit. The Mosaik textbook and supplements are supplied to each student.

German 2

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: German 1

German 2 is a continuation of German 1, making progress toward a novice high level of proficiency in both written and spoken German. Topics at this level include personal descriptions, health, city vs. country living, travel and student life which increase the use and understanding of German vocabulary and grammar, and help students identify opportunities to learn and use German outside the classroom. The Mosaik textbook and supplements are supplied to each student.

German 3

Credit: 1

Level: 10, 11, 12

Prerequisite: German 2

German 3 expands students' listening, speaking, reading and writing skills in more creative situations, making progress toward an intermediate low to mid level of proficiency in German. Students identify opportunities to learn and use German outside the classroom, and to recognize its potential for personal growth, enrichment, and enjoyment. This class is mostly taught in German. The Mosaik textbook and supplements are supplied to each student.

German 4

Credit: 1

Level: 11, 12

Prerequisite: German 3

Students will be immersed in the German language and culture through a variety of assignments and activities based on National Foreign Language Standards. Students work toward an intermediate mid-level of proficiency or higher, and prepare for college placement exams. German 4 students are introduced to many authentic materials: books, films, news, and websites. Students use the Internet and German websites weekly. German 4 topics include: current events, European history and geography, the environment, music and poetry, celebrations, studying and working abroad, and a short novel. This course is conducted almost entirely in German.

Hispanic Films and Literature

Credit: .5

Level: 12

Prerequisite: Latin American Studies, Surprising Spain, AP Spanish Language

This course introduces students to a variety of short stories and movies from Spain and Latin America. It will provide students with ongoing and varied opportunities to further develop their proficiency across a range of language skills—with special attention to reading and writing—and to encourage students to reflect on the many voices and cultures included in a rich and diverse body of authentic literature written in Spanish and authentic film produced in Spain/Latin America. We will compare and contrast a few different film genres (surrealism, melodrama, Hollywood realism, etc.) in their Hispanic contexts. Students will study the work of renowned Latino, Spanish, and Latin American authors. Students will analyze important cultural and historical events in the films and literature (the Guatemalan Civil War, Hispanic superstitions, the Spanish/Moor conflicts, Columbian drug trafficking, etc.)

Latin American Studies

Level 4/5 cultural course, offered every other year

Credit: .5

Level: 11, 12

Prerequisite: Spanish 3

Students will study the geography, history, music, dance, food, and overall daily life and cultures of Latin American countries. This course is taught almost exclusively in Spanish. Students will continue to learn and build their vocabulary base and advanced grammar skills by reading, writing, listening, and speaking in Spanish.

Note: Students will need to cook an authentic meal with a partner or group of three during our “Foods in Latin America” unit. Cost will vary depending on the recipe chosen.

Spanish 1

Credit: 1

Level: 9, 10, 11, 12

Spanish 1 begins the study of the language and cultures of the Spanish-speaking world. Grammar and vocabulary are practiced at the introductory level with speaking, listening, reading, and writing activities. Through readings, videos, and cultural activities students begin to learn about Hispanic contributions to culture and civilization. In this class, we will use more Spanish as the year progresses. The Autentico online textbook and ancillary materials are used in this course.

Spanish 2

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Spanish 1

It is recommended that students earn a “C” or better in Spanish I in order to take Spanish II.

Spanish 2 continues the study of the language and cultures of the Spanish-speaking world. Grammar, vocabulary, speaking, listening, reading, and writing skills are the focus of this course. Through readings, videos, and cultural activities, the students continue to learn about Hispanic contributions to culture and civilization. This class will be taught in Spanish with some English. The Autentico online textbook and ancillary materials are used in this course.

Spanish 3

Credit: 1

Level: 10, 11, 12

Prerequisite: Spanish 2

It is recommended that students earn a “C” or better in Spanish II in order to take Spanish III.

This course is a comprehensive approach to developing more advanced Spanish language skills including reading, writing, speaking and listening. Emphasis will be on paired and small group work. Through readings, videos, and cultural activities the students continue to learn about Hispanic contributions to culture and civilization. The class will be taught in Spanish with some English. This course concludes with the Autentico online textbook series.

Surprising Spain

Level 4/5 cultural course, offered every other year

Credit: .5

Level: 11, 12

Prerequisite: Spanish 3

Students will study the geography, history, music, dance, food, and overall daily life and culture of Spain. This course is taught almost exclusively in Spanish. Students will continue to learn and build their vocabulary base and advanced grammar skills by reading, writing, listening, and speaking in Spanish.

Note: *Students will need to cook one authentic Spanish dish with a partner or group of three during our “Foods of Spain” unit. Cost will vary depending on the recipe chosen.*