

Grafton High School



***Academic & Career
Planning
Course Guide***

2022-2023



Grafton High School
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INTRODUCTION

This Academic and Career Planning Guide is designed to provide students and parents the information needed to plan for student success in high school and prepare for life. As students design their four year plan, they should use this guide as a resource to:

- **Explore your interests through your classes.** In addition to taking your core curriculum, consider taking additional classes such as those listed in Family & Consumer, Fine Arts, Technology Education and Business Education – to demonstrate a well-balanced academic background.
- **Master the basics.** Strengthen your reading, writing, math and vocabulary skills for college and scholarship essays, as well as the standardized tests.
- **Plan your high school curriculum early.** Early planning will ensure you are preparing for college and career requirements.

The initiative should be taken by the student, as the student must shape the direction of his or her life and determine where and how to apply his or her effort and talents. Students need to answer the following questions:

1. *Am I working each year to meet graduation requirements?*
2. *Am I selecting courses consistent with my interests and abilities?*
3. *Am I anticipating and preparing for a productive future?*

Good planning begins with a thorough understanding of personal strengths, aptitudes and goals. It is imperative that all options are reviewed and considered. This resource is designed to be used in conjunction with the Academic and Career Planning opportunities provided by the Grafton High School Counseling Department.

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 University of Wisconsin system and other colleges and universities.

The University of Wisconsin System admission requires 17 “college-preparatory units” including four years of English, three years of Social Studies, three years of Mathematics (algebra and higher), three years of Science, and four years of additional college preparatory electives. All colleges and universities highly **recommend** four years of core classes: English, Math, Science, and Social Studies. Two years of a World Language may be required at some colleges, but three to four years of a single world language is highly recommended by UW-Madison. All universities view world language as strong college preparation.

There is a general agreement between the universities and high schools regarding acceptable college preparatory credits. However, this may vary between one institution of higher education and another.

It is the responsibility of the student to confirm this information with the university/college admissions office.

GRAFTON HIGH SCHOOL GRADUATION REQUIREMENTS

Class of 2023

24 Credits Required

- 4 credits of English
- 3 credits of Social Studies
 - **American Government or AP Human Geography (1.0 credit)**
 - United States History or AP US History (1.0 credit)
 - *Note: Students selecting AP Human Geography are required to take American Government (.5 credit) prior to graduation*
- 3 credits of Mathematics
- 3 credits of Science
 - Biology (1.0 credit)
- 1.5 credits of Physical Education
- 0.5 credits of Health
- 9 additional credits

Class of 2024 and beyond

24 Credits Required

- 4 credits of English
- 3 credits of Social Studies
 - **Global Studies or AP Human Geography (1.0 credit)**
 - United States History or AP US History (1.0 credit)
 - **American Government (.5)**
- 3 credits of Mathematics
- 3 credits of Science
 - Biology (1.0 credit)
- 1.5 credits of Physical Education
- 0.5 credits of Health
- 9 additional credits

Financial Literacy Requirement

Starting with the class of 2022 and all classes thereafter will need to meet the district's financial literacy requirement for graduation. Students will continue to receive department specific credit for these courses and the financial literacy requirement will be recorded for completion by the counseling office. Students must select one of the following .5 credit courses:

- Personal Finance (Business)
- College Personal Finance (Business)
- AP Macroeconomics (Social Studies)
- AP Microeconomics (Social Studies)
- Independent Living (FACE)

Civics Exam 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.

REFLECTIVE QUESTIONS FOR STUDENTS

Throughout the Academic & Career Planning process, students are encouraged to reflect on four main questions to help develop their ACP.

<p style="text-align: center;">KNOW WHO AM I?</p>	<p>What interests me?</p> <ul style="list-style-type: none"> ● What are my strongest skills? ● What academic, career, and/or life skills would I like to develop before I graduate?
<p style="text-align: center;">EXPLORE WHAT DO I WANT TO DO?</p>	<ul style="list-style-type: none"> ● What are the Career Clusters I am most interested in and why? ● What type of degree or certificate do I need to support my goals? ● Will this career choice support what I want for my financial future? ● Which internal and external courses can I take to explore my interests? ● What jobs would I like to shadow and when will I do that?
<p style="text-align: center;">PLAN HOW DO I GET THERE?</p>	<ul style="list-style-type: none"> ● What schools offer a related degree/major? ● What will I need to provide a competitive admissions application for the schools/majors I might be interested in? For example: <ul style="list-style-type: none"> ○ What level of math must I complete? ○ Do I need to complete a portfolio? ○ What ACT scores are required for admissions? ● In what areas will I pursue more rigorous coursework to support my strengths and/or areas of interest? Will I take AP courses etc.? ● Will my credits transfer to the school(s) I want to attend? ● How much do I anticipate that my post-secondary education might cost? ● Will I qualify for Financial Aid and Scholarships? ● Will I have the dispositions needed to find employment following high school?
<p style="text-align: center;">GO</p>	<p>Students are an active participant in their Academic & Career Planning Process. Students are encouraged to reflect often on their choices and update their plans, sometimes more than yearly. This will include:</p> <ul style="list-style-type: none"> ● Reviewing, adapting, or modifying course selections and personal goals ● Conferencing with counselors and/or parents

CAREER CLUSTER FRAMEWORK

The Career Cluster framework provides a sequential path for students to take a career interest and develop it into job potential. The 16 broad Career Clusters are broken down into 79 specific pathways. Students will be able to learn about multiple careers within each pathway and choose one program of study available in their school, which will be developed through the process laid out in this manual. The program of study will be tied to community needs, specific partnerships, and a sequence of courses which will provide a channel for students to move seamlessly from high school to postsecondary institutions. The program of study becomes a foundation for each students' individual learning plan, which is a portfolio of student accomplishment in preparation for postsecondary education or the workforce.

CAREER CLUSTERS are broad occupational groupings based on a set of common knowledge and skills required for a broad group of careers. Wisconsin has adopted the national 16 career clusters that also serve as a tool for organizing curriculum and instruction. Career clusters provide opportunities for all students regardless of their career goals and interests. They are a tool for a seamless educational system that blends rigorous academic/technical preparation, provides career development, offers options for students to experience all aspects of a business or industry, and facilitates/assists students and educators with ongoing transition.

CAREER PATHWAYS are a sub-grouping of careers used as an organizing tool for curriculum design and instruction. Similar to career clusters, career pathways are grouped based on their requirements for a set of core and similar knowledge and skills for career success. Each pathway highlights a specific part of each cluster. An easy example of this can be seen in the Agriculture, Food and Natural Resource cluster. Seven different pathways, from animal to plant systems highlight the variety of interests that each cluster holds for students.

A PROGRAM OF STUDY is a specific career pathway, defined by a local school/district partnership, which is a sequence of instruction based on recommended standards and knowledge and skills, consisting of coursework, co-curricular activities, worksite learning, service learning and other learning experiences including career and technical student organizations (CTSO). The sequence of instruction provides preparation for a career.

AN ACADEMIC CAREER PLAN (ACP) includes a program of study and learning that represents a fluid, living, breathing, mapped academic plan reflecting a student's unique set of interests, needs, learning goals, and graduation requirements, it goes beyond the "Four-Year Plan" by recording the student's connections to the larger community including examples of community service and volunteerism; membership in community organizations; participation in leadership activities outside of school; involvement in job shadowing, mentorships, and/or apprenticeships; and the pursuit of skill development through hobbies, athletics, and fine arts.



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 offer the pathways below. To be considered a Wisconsin Regional Career Pathway completer, a student must participate in 3 of 4 possible career exploration elements below:

ELEMENT 1 -

Complete a Sequence of 3 Pathway Courses

ELEMENT 2 -

Obtain an Industry-Recognized Certification

ELEMENT 3 -

Participate in a Work-Based Learning Experience

ELEMENT 4 -

Participate in a College Credit Opportunity

[Advanced Manufacturing Career Pathway](#)

[Architecture & Construction Regional Career Pathway](#)

[Business Administration in Finance Career Pathway](#)

[Digital Technology Regional Career Pathway](#)

[Patient Care Regional Career Pathway](#)

THE 16 CAREER CLUSTERS

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.</p> <p>Business Management and Administration career opportunities are available in every sector of the economy.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>

	<p>Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>



Agriculture in Wisconsin includes science, marketing, service, production, supply, processing, preservation of the food supply, plants, animals and natural resources. This area employs over 12 percent of Wisconsin's workforce.

Career planning should include a solid background in math, science, communications, and technical skills. Education and training for a position in a field in agriculture can start as soon as you enter high school and can continue on into either a technical, two-year, four-year college, apprenticeship programs, and career technical schools/institutes.



Sample Careers

- Agricultural Salesperson
- Animal Trainer
- Biologist
- Botanist
- Environmental Scientist
- Farmer
- Food Technologist
- Forest and Conservation Worker
- Hazardous Materials Handler
- Historic Preservationist
- Mining Machine Operator
- Natural Sciences Manager
- Park Ranger
- Soil and Water Specialist
- Veterinarian
- Water Treatment Plant Operator
- Wildlife Manager or Technician

For more information:
U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	Zoology/Botany	World Language (2 yrs.)	Sociology
Geology & Earth Systems	Geography	Environmental Science	AP Environ. Sci.
AP Psychology	Physics	AP Physics 1	Wood Design
AP Macroeconomics	AP Microeconomics	Algebra 2	Food Concepts
FST	Baking Principle	AP Biology	AP Statistics
Health Occupations	Chemistry	AP Chemistry	AP Calculus
Food Science	Youth Apprenticeship		Outdoor Adventure



Careers in designing, planning, managing, building, and maintaining the built environment

Careers in the architecture and construction include design planning, managing, building and maintaining building environments. Individuals employed in these careers work on new structures, restorations, additions, alterations, and repairs. Students who pursue employment in these fields need a solid background in math, science, and technical skills. Your education and training could start in the high school level transferring to technical, two-year, four-year college, apprenticeship programs, and career/technical schools or institutes.



Grafton High School Regional Construction Career Pathway

- Sample Careers**
- Architect
 - Brick Mason
 - Building Inspector
 - Carpenter
 - Civil Engineer
 - Cost Estimator
 - Computer-Aided Drafter
 - Construction
 - Equipment Operator
 - Construction Manager
 - Electrician
 - General Contractor
 - Heating, AC and Refrigeration Technician
 - Iron/Metalworker
 - Maintenance Planner/Scheduler
 - Plumber
 - Painter
 - Welder

For more information:
 U.S. Bureau of Labor Statistics
 WI Division of Workforce Development

GHS Recommendations		
Communications	Residential Construction I & II	Drawing
Geology & Earth Science	Computer Apps.	Environ. Sci.
AP Environ. Sci.	Ceramics	Physics or AP Physics
Metal Fabrication	Graphic Design	PLTW: IED
Welding 1	Housing & Interior Design	Algebra 2
Machine Tool Technology	Youth Apprenticeship	World Language
Advanced Machine Tool	Technology & Engineering 9	Mechanical Design 1/ 2
PLTW: POE	Wood Design	Architectural Design 1/2
PLTW: CIM	PLTW: EDD	Intro to Programming
Advanced Computer Prog/VR		



Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Arts, audio/video technology, and communications workers use creativity and their talents on the job. You might work for an audience as a performer or artist. This includes painters, dancers, sculptors, actors, and singers. Or, you might work behind the scenes to make a performance successful. This includes set designers, editors, broadcast technicians, and camera operators.



Sample Careers

- Actor
- Audio-Visual Systems Technician
- Broadcast and Sound Technician
- Camera Operator/Editor
- Dancer
- Desktop Publishing Specialist
- Director
- Editor
- Lighting Designer
- Musician
- News Analyst
- Reporter
- Photographer
- Printing Press Operator
- Producer
- Talent Agent
- Telecommunications Specialist
- Writer and Author

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	AP Psychology	Art Exploration	Graphic Design 1 & 2
Creative Writing	AP Macroeconomics	AP Microeconomics	Drawing
Concert Band	Symphonic Band	Writing for Publication	Chorale
Professional Writing	Math (through Adv. Algebra)		Painting
Concert Choir	U.S. History	World Language (2 yrs.)	Ceramics
Music Theory	Sociology	Architecture Design 1 & 2	Art Metals
AP Music Theory	American Issues	Fundamentals of Theatre	Camera
World Issues	Multimedia	Photography 1 & 2	Jazz Ensemble
AP Studio Art	Game & App Design	Digital Video Des.	Intro to Program.
Adv. Computer Prog./VR	AP Computer Science A	AP Computer Science Prin.	

[U.S. Bureau of Labor Statistics](#)
[WI Division of Workforce Development](#)



Careers in business management and administration include planning, organizing, directing and evaluating business functions that are necessary to the efficiency of productive business operations.

Planning for a position in a career in this field needs a solid leadership, teaching and computer skills in addition to a solid background in math and science.

Education and training can start in the high school level and continue on in a technical, two-year, four-year college, apprenticeship program, and a career at a technical school/institute.



Sample Careers

- Accounts Payable Clerk
- Administrative Assistant
- Bookkeeping Clerk
- Budget Analyst
- Business Manager
- Compensation/Benefits Manager
- Desktop Publisher
- General Manager
- Health Services Manager
- Human Resources Manager
- Investment Analyst
- Management Analyst
- Meeting and Convention Planner
- Order Clerk
- Public Relations Specialist
- Purchasing Manager
- Training and Development Manager
- Wholesale or Retail Buyer

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	Algebra 2	American Government
AP Statistics	College Personal Finance	Sociology
World Language (2 yrs.)	Accounting	American Issues
Advanced Accounting	World Issues	Computer Applications
Career Internship	AP Psychology	Multimedia
AP Macroeconomics	Web Design	AP Microeconomics
Sports and Entertainment Mgmt.	CAPP Entrepreneurship	AP Computer Sci. A
AP Com. Sci. Pri	Desktop Publishing	College Pers. Finance
Youth Apprenticeship: Finance	Business & Merchandising	Digital Video Design
Advanced Computer Pro./VR	AP Computer Science Prog.	



Careers in education and training include planning, managing, providing education and training services, and related learning support services.

Employees of Education and Training need to have a solid foundation in academic, technical and presentation/facilitation skills. Education and training for a field in this career path can begin in high school continuing on into technical, two-year, or four-year colleges, internships, career technical schools/institutes, and human resource/training organizations.



Sample Careers

- Adult Education Teacher
- Archivist
- Audiologist
- Curriculum Developer
- Educational Psychologist
- Elementary Teacher
- Human Resources Trainer
- Instructional Coordinator
- Librarian
- Museum Curator
- Postsecondary Instructor
- Preschool Teacher
- Principal
- School Counselor
- Secondary Teacher
- Social Worker
- Speech-Language Pathologist
- Teacher Assistant

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

American Literature & Composition	AP Psychology	Communications
AP Macroeconomics	Essentials of College Writing	
AP Microeconomics	AP English Lit.	AP English Language
AP Biology	Web Design	Sociology
Web Design	American Issues	Personal Finance
World Issues	Child Development 1/2	AP Seminar
AP Research	AP Human Geography	Career Internship
AP US History	American Government	Independent Living
Global Studies	US History	



The finance industry is a critical sector that employs millions of people. The Finance Career Cluster prepares students for careers in financial and investment planning, banking, insurance and business financial management. Finance career opportunities are available in every sector of the economy and require skill in organization, time management, customer service and communication.



Sample Careers

- Accountant
- Actuary
- Banker
- Bill Collector
- Bond Trader
- Claims Agent
- Credit Analyst
- Financial Counselor
- Financial Planner
- Fund Manager
- Insurance Agent
- Loan Interviewer
- Loan Officer
- Securities Sales Agent
- Tax Preparer
- Teller
- Title
- Researcher/Examiner
- Underwriter

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	Algebra II	American Government
AP Statistics	Personal Finance	Sociology
World Language	Accounting	American Issues
Computer Applications	Advanced Accounting	World Issues
Web Design	Youth Apprenticeship: Finance	
AP Psychology	AP Macro/Microeconomics	AP Computer Sci. A
AP Computer Sci. Pri.	CAPP Entrepreneurship	Career Internship
College Personal Fin.	AP Seminar	AP Research
Adv Computer Prog/VR	Business & Merchandising	AP Environmental Sci.



Careers in government and public administration include governmental governance, national security, foreign service, revenue and taxation regulations, and the management of programs and administration at the local, state and federal levels. Almost every occupation can be found within the government. Those pursuing careers in government and public administration need to have a strong background in social studies, political science, foreign language, and history. Education and training can begin at the high school level continuing onto two-year, four-year, technical colleges, apprenticeship programs, and career technical schools/ institutes.



Sample Careers

- Auditor
- Cargo Inspector
- Court Clerk
- Census Clerk
- City or County Manager
- Diplomatic Courier
- Economist
- Foreign Service Specialist
- Legislative Assistant
- Military Enlisted or Officer
- Postal Worker
- Real Estate Appraiser
- Revenue Agent
- Security Analyst
- Tax Examiner
- Transportation Inspector
- Urban Planner

For more information:

U.S. Bureau of Labor Statistics
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GHS Recommendations

American Lit. & Comp.	AP Psychology	Communications
AP Macroeconomics	AP Microeconomics	American Gov.
Environmental Science	AP Environmental Science	Accounting
Algebra 2	Advanced Accounting	AP Human Gov.
Sociology AP Statistics	Geography	US History.
American Issues	World Language	World Issues
Computer Applications	AP Seminar	AP Research
Revolutions	Ancient History	Prof Writing
Writing for Publications	Digital Video Design	



Careers in the health science incorporate planning, managing, and providing health services. Some careers involve working directly with the public, while other careers involve working behind the scene in research, collecting and formatting data information. Locations of work include places such as hospitals, medical or dental facilities, laboratories, sport arenas, or within the community. Career planning for a position in the field of health science should include a strong background in math, science, communications, and technical skills. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/institutes.

GHS Recommendations

Communications	PLTW: Human Biology	
PLTW :Biomed Inno.	PLTW: Medical Interventions	
PLTW: Biomedical Science	Baking Principles	
Sociology	Physics	AP Physics
Introduction to Health Occupations	AP Psychology	
AP Statistics	Child Development I & II	
Biology	World Language	Food Science
AP Biology	Computer Applications	
Youth Apprenticeship: Health Science	Chemistry	
Personal Finance	Computer Sci. A/AP	
Intro to Programming	AP Chemistry	Food Concepts
Zoology/Botany	AP Calculus	Algebra 2
Envrionmental Science	AP Environmental Science	
FIRST Tech Challenge Robotics	Personal Fitness	

Sample Careers

- Admitting Clerk
- Athletic Trainer
- Dental Hygienist
- Dietician
- Emergency Medical Technician
- Health Information Technologist
- Home Health Aide
- Medical Assistant
- Medical Lab Technologist
- Medical Transcriptionist
- Nurse, Nurse Practitioner
- Occupational Therapist
- Optician
- Pharmacist
- Phlebotomist
- Physical Therapist
- Physician
- Radiation Therapist
- Respiratory Therapist
- Surgeon
- Ultrasound Technician

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

Grafton High School Nursing
Regional Career Pathway



Careers in hospitality and tourism incorporate the management, marketing, and operations of restaurants and other food service, lodging, attractions, and recreational events.

It also includes the many branches of the travel related services. Hospitality and Tourism services are in demand and located throughout the world. Career Planning for the field of hospitality and tourism should include a solid foundation in math, science, technical and communication skills. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/institutes.



Sample Careers

- Caterer
- Chef, Pastry Chef
- Cook
- Convention Services Manager Exhibit Developer
- Event Planner
- Food and Beverage Manager Front Desk Supervisor
- Promoter
- Recreation/Fitness Worker
- Resort Manager
- Ticket Agent
- Tour Guide
- Tourism Marketing Specialist Travel Agent
- Wait Staff

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	World Language	Sociology	World Issues
Web Design	Sports & Entertainment Mgmt.		AP Art History
Geography	Food Concepts	AP Psychology	Personal Finance
Housing & Interior Design		Adv. Food & Restaurant Management	
AP Macroeconomics	Accounting	Photography I & II	Graphic Design
AP Microeconomics	Advanced Accounting		Algebra 2
Youth Apprenticeship: Hospitality & Tourism			Career Internship
Baking Principles	Performance Music Courses		AP Human Geography
Digital Video Design	CAPP Entrepreneurship	Business & Merchandising	



Careers in human services incorporate preparing individuals to work with families and support human needs.

This career path is extremely diverse and can be found in various locations throughout the world. Career planning for a position in the field of Human Services must include a strong background in communications, science, and technical skills. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/institutes.



Sample Careers

- Barber
- Beautician, Stylist
- Career Counselor
- Childcare Worker
- Clergy, Minister
- Coordinator of Volunteers Counselor
- Fitness Trainer
- Funeral Director
- Human Services Assistant
- Massage Therapist
- Mental Health Counselor
- Nail Technician
- Personal Trainer
- Preschool Teacher
- Psychologist
- Religious Worker
- Residential Advisor
- Social Worker

For more information:

U.S. Bureau of Labor Statistics
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GHS Recommendations

Communications	Biology/ AP Biology	Personal Finance
American Government	Chemistry/AP Chemistry	Accounting
Sociology	Algebra 2	Food Concepts
American Issues	FST	Baking Principles
World Issues	World Language	Intro to Health Occupations
AP Psychology	Computer Applications	Child Development I & II
Personal Fitness	AP Statistics	College Personal Finance



Careers in Information and Technology include the designing, developing, and supporting of the technological hardware, software, multimedia and integration

systems. Career planning for a position in the field of Information and Technology must include a solid background in math and science. Careers in IT are challenging and ever-changing. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/institutes.



For more information:
 U.S. Bureau of Labor Statistics
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- Sample Careers**
- 3D Animator
 - Computer Programmer
 - Computer Support Specialist
 - Computer Systems Analyst
 - Computer Technician
 - Data Communications Analyst
 - Database Administrator
 - GIS Specialist
 - Help Desk Specialist
 - Information Security Analyst
 - Network Administrator
 - PC Support Specialist
 - Quality Assurance Specialist
 - Security Analyst
 - Software Developer
 - Systems Administrator
 - Test Engineer
 - Web Designer

GHS Recommendations

Communications	Physics	Web Design
Professional Writing	AP Physics 1	Writing for Publications
FST	Intro to Programming	American Gov.
AP Statistics	AP Computer Science	AP Psychology
AP Calculus	Photography I & II	AP Macroeconomics
World Language	Graphic Design	AP Microeconomic
Youth Apprenticeship: Info Tech.	Intro to Engineering	Game & App Design
Adv. Computer Prog./VR	AP Comp. Science A	AP Comp Science Prin.
Physics/AP Physics	PLTW: Comp. Integrated Mft.	



Careers in Law, Public Safety, Corrections, and Security include the planning, managing, and providing of protective services, legal services, homeland security, and public safety.

Career planning in this field includes a strong background in math, science, technical skills, communications skills, and the ability to multi-task. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/ institutes.



Sample Careers

- Animal Control Worker
- Attorney
- Corrections Officer
- Criminal Investigator
- Detective, Investigator
- Emergency Medical Technician
- Emergency Services Manager
- Firefighter
- Fish and Game Warden
- Lawyer, Judge
- Loss Prevention Specialist
- Paralegal
- Police Officer, Deputy
- Private Detective
- Probation Office
- Security Analyst
- Security Guard
- Security Software Developer

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	AP Macroeconomics	Algebra 2
American Gov	AP Microeconomics	World Language
U.S. History	Biology	Sociology
AP Biology	American Issues	Physics/AP Physics
Intro to Programming	World Issues	Chemistry/AP Chemistry
AP Computer Science A	AP Psychology	PLTW: Biomedical Sci
Photography I & II	Ancient History	Revolutions
Outdoor Adventure	AP Seminar	AP Research
Accounting	Adv. Accounting	Material Science



Careers in Manufacturing include planning, managing, and the processing of materials into intermediate or final products.

Its diversity also includes professional and technical support such as production planning, control maintenance and manufacturing/processing engineering. Career planning in this field includes a strong background in math, science, technical skills, communications skills, and the ability to multi-task. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs.

**Grafton High School Regional
Advanced Manufacturing
Career Pathway**

For more information:
U.S. Bureau of Labor Statistics
WI Division of Workforce Development

Sample Careers

- Aircraft Assembler
- Computer Control Programmer
- Dispatcher
- Electronics Assembler
- Engine/Machine Assembler
- Industrial Engineer
- Inspector
- Machinist
- Millwright
- Power Plant Operator
- Process Improvement Technician
- Production Planner
- Production Supervisor
- Purchasing Agent
- Quality Engineer
- Safety Coordinator
- Security System Installer / Repairer
- Tool and Die Maker
- Welder

GHS Recommendations

Communications	World Language	Auto Service
Technical Communication	Wood Design	Auto Diagnosis
American Issues	Metal Fabrication	Auto Systems Repair
World Issues	Welding 1	Advanced Autos
Chemistry	Machine Tool	Mechanical Design 1/2
Physics	Advanced Machine Tool	Architectural Design 1/2
AP Physics 1	PLTW: IED	Algebra 2
Air-Cooled Engine	PLTW: POE	Youth Apprenticeship:
Manufacturing	Cabinetmaking	Physics

[U.S. Bureau of Labor Statistics](#)
[Grafton High School Regional Adv. Manufacturing Career Pathway](#)
[WI Division of Workforce Development](#)



Careers in Marketing, Sales, and Service include careers in planning, managing, and performing marketing activities to reach organizational objectives.

Career planning in this field includes a strong background in math, technical skills, communications skills, and the ability to multi-task. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs.



Sample Careers

- Advertising Manager
- Cashier
- Customer Service Representative
- E-Commerce Director
- Marketing and Sales Manager
- Model, Promoter
- Procurement Clerk
- Product Planner
- Real Estate Agent
- Retail Sales Supervisor
- Sales Representative
- Small Business Owner
- Store Manager
- Technical Sales Specialist
- Telemarketer
- Wholesale Buyer

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	Chemistry	Personal Finance
Creative Writing	Algebra II	Writing for Publication/Prof.
Writing	World Language	Sociology
Intro to Programming	Sports & Entertainment Management	
American Issues	Photography I & II	World Issues
Web Design	Graphic Design	AP Macroeconomics
AP Computer Sci. A	AP Microeconomics	CAPP Entrepreneurship
Career Internship	College Personal Fin.	AP Seminar
AP Research	Business & Merchandising	College Pers. Finance
AP Statistics	Digital Video Design	



Careers in Science, Technology, Engineering, and Mathematics include the planning, managing, and providing of scientific research in areas such as physical science, social science, and engineering.

This diverse field also includes laboratory/testing and research/development services. Career planning in this field includes a strong background in math, science, technical skills. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs, and career technical schools/institutes.

For more information:
 U.S. Bureau of Labor Statistics
 WI Division of Workforce Development

- Sample Careers**
- Aerospace Engineer
 - Agricultural Technician
 - Biologist, Biological Technician
 - Biomedical Engineer
 - Chemist, Chemical Technician
 - Civil Engineer
 - Computer Engineer
 - Drafter
 - Electrical/Electronics Engineer
 - Engineering Technician
 - Environmental Engineer
 - GIS Specialist
 - Industrial Engineer
 - Lab Technician
 - Mechanical Engineer
 - Mining Engineer
 - Nuclear Engineer
 - Quality-Control Scientist
 - Research Scientist/Technician
 - Security Analyst

GHS Recommendations

Communications	PLTW: Bio Med. Sequence	AP Computer Science A
Geography	Physics or AP Physics	Wood Design
Biology/AP Biology	AP Calculus	Metal Fabrication
Zoology/Botany	AP Statistics	Mechanical Design 1 & 2
Chemistry/AP Chemistry	World Language	Architectural Design 1 & 2
Space Sciences	Geology & Earth Systems	Web Design
Introduction to Health Occupations	Environ. Science	AP Environ. Sci.
Intro to Programming	PLTW: POE	PLTW: IED
FIRST Tech Challenge	Robotics	PLTW: EDD



Careers in Transportation, Distribution, and Logistics entail the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water.

This also encompasses services such as transportation, infrastructure planning, management, logistics services, mobile equipment and facility maintenance. Career planning in this field includes a strong background in math, communications, science, and technology. Education and training can be obtained in high school, technical, two-year, four-year colleges, apprenticeship programs.



Sample Careers

- Air Traffic Controller
- Aircraft Pilot
- Auto Body Technician
- Automotive Technician
- Bus Driver
- Diesel Engine Specialist
- Flight Attendant
- Freight Agent
- Logistics Manager
- Safety Analyst
- Shipping Clerk
- Transportation Supervisor

For more information:

U.S. Bureau of Labor Statistics
WI Division of Workforce Development

GHS Recommendations

Communications	AP Microeconomics	World Language
Tech Communication	AP Biology	Technology & Engineering 9
Sociology	Chemistry/AP Chemistry	Air-Cooled Engines
American Issues	Space Sciences	Auto Service
World Issues	Physics or AP Physics 1	Auto Diagnosis
Geography	Environ. Sci. or AP Environ. Sci.	Mechanical Design 1 & 2
AP Psychology	Algebra 2	Youth Apprenticeship: Trans.
AP Macroeconomics	AP Statistics	Auto Systems Repair.
Advanced Auto Tech	PLTW: IED	PLTW: POE
Global Studies	Intro to Programming	PLTW: Comp Integ.Design

Grafton High School

ACADEMIC PREPARATION INFORMATION

Subject	Grafton HS	Minimum College Prep	University of WI System	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 at UW Madison (min)	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
Electives	9 credits	Academic electives	4 academic electives from above areas	Academic electives recommended
Total	24 credits	16-17 academic credits	17 or more academic credits	23 academic credits (average)

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:	
_____	___
_____	___
_____	___
_____	___

11th Grade

Course	Credit
Required:	
World Literature/Composition or A.P. Language and Composition	1
Mathematics: _____	1
Science: _____	
Social Studies _____	
Physical Education (either in 11 or 12 grade)	.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:	
_____	___
_____	___
_____	___
_____	___

12th Grade

Course	Credit
Required:	
English: _____	1
Career Exploratory Electives:	
_____	___
_____	___
_____	___
_____	___
_____	___
_____	___

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

***American Government .5 required prior to graduation*

***Prerequisite**—Refer to the individual departments in the *Academic & Career Planning Course Guide*

Prerequisite	ART	Credit	9	10	11	12
	ART METALS 1	0.5	x	x	x	x
*	ART METALS 2	0.5		x	x	x
*	ART METALS 3	0.5		x	x	x
*	AP ART HISTORY	1		x	x	x
*	AP STUDIO ART	1			x	x
	ART EXPLORATION	0.5	x	x	x	x
	CERAMICS 1	0.5	x	x	x	x
*	CERAMICS 2	0.5		x	x	x
*	CERAMICS 3	0.5		x	x	x
	DRAWING 1	0.5	x	x	x	x
*	DRAWING 2	0.5		x	x	x
*	DRAWING 3	0.5		x	x	x
	EXPLORE 2D	0.5			x	x
	EXPLORE 3D	0.5			x	x
	GRAPHIC DESIGN 1	0.5		x	x	x
*	GRAPHIC DESIGN 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
	PHOTOGRAPHY 1	0.5		x	x	x
*	PHOTOGRAPHY 2	0.5		x	x	x

	BUSINESS	Credit	9	10	11	12
	ACCOUNTING	1		x	x	x
*	ADV ACCOUNTING	1			x	x
	BUSINESS & MERCHANDISING	1	x	x	x	x
	COMPUTER APPL FOR COLLEGE & CAREERS	0.5	x	x	x	x
	DESKTOP PUBLISH	0.5	x	x	x	x
	CAREER INTERNSHIP	.5/1			x	x
	DIGITAL VIDEO DESIGN	1	x	x	x	x
	PERSONAL FINANCE	0.5		x	x	x
	CAPP ENTREPRENEURSHIP	0.5		x	x	x
	COLLEGE PERSONAL FINANCE	0.5		x	x	x
	SPORTS MANAGEMENT	0.5		x	x	x
	WEB DESIGN	0.5	x	x	x	x

	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
	GAME/APP DESIGN	0.5	x	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
	CONTEMP 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	

	FAMILY CONSUMER SCIENCE	Credit	9	10	11	12
**	ADV FOOD & RESTAURANT MGMT	1.0			x	x
	CHILD DEV 1	0.5			x	x
*	CHILD DEV 2	0.5			x	x
	BAKING PRINCIPLES	0.5	x	x	x	x
	FASHION/FABRICS 1	0.5	x	x	x	x
*	FASHION/FABRICS 2	0.5		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

	WORLD LANGUAGE	Credit	9	10	11	12
*	ADELANTE	0.5		x	x	x
*	CHARLEMOS	0.5			x	x
*	EL QUINTO	0.5		x	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
*	AP GERMAN LANGUAGE/GERMAN 5	1				x
*	HISP FILM & LIT	0.5				x
*	LATIN AM STUDIES	0.5			x	x
*	AP SPANISH LANG	0.5			x	x
	SPANISH 1	1	x	x	x	x
*	SPANISH 2	1	x	x	x	x
*	SURPRISING SPAIN	0.5			x	x

	TECH & ENGINEERING	Credit	9	10	11	12
*	ADVANCED AUTO	1				x
*	ADV MACH TOOL	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
*	AIR COOLED ENGINES	0.5		x	x	x
	MACH TOOL TECH	0.5		x	x	x
	METAL FABRICATION	0.5		x	x	x
	PLTW: PRIN OF ENGIN	1		x	x	x
	PLTW: INTRO TO ENGINEERING DESIGN	1	x	x	x	x
	PLTW: COMPUTER INTEGRATED MANUF	1		x	x	x
*	PLTW: ENGINEERING DESIGN & DEVELOPMENT	1			x	x
*	RES CONSTRUCT 1	0.5			x	x
*	RES CONSTRUCT 2	0.5			x	x
	FTC: ROBOTIC	.5	x	x	x	x
	SYSTEMS REPAIR	1				x
	TECH/ENGINEER 9	1	x			
*	VOC METALS	0.5				x
	WELDING 1	0.5		x	x	x
*	WELDING 2	0.5		x	x	x
	WOOD DESIGN	0.5		x	x	x
	MATH	Credit	9	10	11	12
*	ALGEBRA 2	1	x	x	x	x
*	ALGEBRA 2 HONORS	1	x	x	x	x
*	ALGEBRA	1	x	x	x	x
	ALGEBRA SUPPORT	1	x			
*	AP CALCULUS AB	1			x	x
*	AP CALCULUS BC	1			x	x
*	FUNCT/STAT/TRIG	1			x	x
*	GEOMETRY	1	x	x	x	x
	GEOMETRY SUPPORT	1		x	x	
*	GEOMETRY HONORS	1	x	x	x	x
*	PRE-CALCULUS	1		x	x	x
*	AP STATISTICS	1			x	x
	MUSIC	Credit	9	10	11	12
*	AP MUSIC THEORY	0.5			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 THEATRE	0.5			x	x
	MUSIC THEORY	0.5			x	x
	JAZZ BAND	0.5	x	x	x	x
	WIND ENSEMBLE	1		x	x	x
	PHYSICAL EDUCATION	Credit	9	10	11	12
	PHY ED 12	0.5				x
	PHY ED 9	0.5	x			
	NET GAMES	0.5		x	x	x
	PERSONAL FITNESS	0.5		x	x	x

	STRENGTH TRAINING	0.5		x	x	x
*	ADV. STRENGTH TR.	0.5		x	x	x
	TEAM SPORTS	0.5		x	x	x
*	OFFICIATING	0.5		x	x	x
	OUTDOOR ADVENTURE	0.5		x	x	x
	PHY ED LEADERS	0.5		x	x	x
	HEALTH	Credit	9	10	11	12
	HEALTH	.5	X			
	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			
*	INTRODUCTION TO MATERIALS SCIENCE	0.5		x	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
	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
	SOCIAL STUDIES	Credit	9	10	11	12
	AMERICAN GOV	0.5		x	x	x
*	AP HUMAN GEOG	1	x			
	GLOBAL STUDIES	1	x			
	AMERICAN ISSUES	0.5		x	x	x
	ANCIENT HISTORY	0.5			x	x
	AP PSYCHOLOGY	1			x	x
*	AP U.S. HISTORY	1		x		
	WORLD ISSUES	0.5			x	x
	AP MACROECON	0.5			x	x
*	AP MICROECON	0.5			x	x
	GEOGRAPHY	0.5		x	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		
	YOUTH APPRENTICESHIP	Credit	9	10	11	12
	AUTO APPRENTICE	1			x	x
	COMPUTER APPREN	1			x	x
	ENG/DESIGN APPR	1			x	x
	BANK APPRENTICE	1			x	x
	HEALTH APPRENTI	1			x	x
	HOSP/TOUR APPR	1			x	x
	MFG INDUST APPR	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. The curriculum will give students the opportunity to sharpen their academic skills, allowing them to enter college with confidence. 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. The cost of the test varies according to the College Board. The criteria for college admission varies; and, it is the responsibility of the student to make sure the college that he/she plans to attend accepts the AP test scores. Note: Students may also take the AP exam without taking the related GHS AP course.

For more information on AP Courses visit: <https://apstudent.collegeboard.org/home>.

Grafton High School offers the following AP courses:

AP Art History
 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 Psychology
 AP Research
 AP Seminar
 AP Statistics
 AP Spanish Language & Culture
 AP U.S. History

YOUTH APPRENTICESHIPS

Youth Apprenticeships are unique opportunities for juniors and seniors 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 are 1 credit for the year and can be taken one or two years:

Agriculture
 Architecture & Construction
 Finance
 Hospitality, Lodging & Tourism
 Manufacturing
 Science, Tech, Engineering & Mathematics (STEM)

Food & Natural Resources
 Art, A/V Technology & Communications
 Health Science
 Information Technology
 Marketing
 Transportation, Distribution & Logistics



For more information, please contact your GHS School Counselor, John Higgins, Ozaukee Youth Apprenticeship Co-Coordinators john.higgins@pwssd.k12.wi.us or John Duba at john.duba@pwssd.k12.wi.us. <https://www.ozaukeeya.com/>

DUAL CREDIT COURSES

Many Grafton High School departments have 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 Course	Supporting College	College Course #	College Credits	Type
Computer Applications for College & Careers	MATC	COMPSW-106	3	T.C.
Accounting	MATC	ACCTG-102	3	T.C.
Advanced Accounting	MATC	ACCTG-111	4	T.C.
CAPP: Entrepreneurship	UW Oshkosh (CAPP)	BUS-198	3	T.C.
College Personal Finance	UW Oshkosh (CAPP)	BUS-231	3	T.C.
Advanced Foods & Restaurant Management	MATC	CULMGT-112	2	A.S.
Child Development 1	MATC	CHILDD-110	3	T.C.
Child Development 2	MATC	CHILDD-148	3	T.C.
Functions/Stats/Trig (FST)	MATC	Math 201 & Math 202	7	T.C.
PLTW: Principles of Biomedical Science*	MSOE	BI-1001	3	T.C.
PLTW: Human Body Systems*	MSOE	BI-1002	3	T.C.
PLTW Medical Intervention*	MSOE	BI-1003	3	T.C.
PLTW: Intro to Engineering Design	MSOE	GE-1002	3	T.C.
PLTW: Principles of Engineering	MSOE	GE-1001	3	T.C.
PLTW: Computer Integ. Manf.	MSOE	GE-1004	3	T.C.
Advanced Autos	MATC	multiple courses	6-8	T.C.
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.

A.S. (Advanced Standing) = Upon enrollment in a relevant Milwaukee Area Technical College program, students will receive advanced standing or credit toward their MATC diploma.

T.C. (Transcribed Credit) = Upon completion of their GHS course, students will receive credit for a college equivalent course that will be placed on a 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:

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

For more information about the program, go to the UW Oshkosh CAPP [website](#). Click [here](#) to see which colleges have accepted CAPP credit.

EARLY COLLEGE CREDIT PROGRAM & START COLLEGE NOW

These two programs allow high school students the opportunity to take college courses at a WI four-year college or at a WI technical college. Students who have questions about the program should see their school counselor or visit the GHS Counseling [website](#).

TEACHER ASSISTANT & INDEPENDENT STUDY

Teacher Assistant position - For students interested in exploring an educational career or displaying a high level of expertise in a content area, 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 permission to engage in 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.

GLOBAL SCHOLARS (former GLOBAL EDUCATION ACHIEVEMENT 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:

- take 4 credits of world language in high school, earning a grade of B or better
- take additional 4 credits from courses that have a global emphasis (see list below)
- participate in service or international extracurricular activities
- complete 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:	AP Art History, Art Exploration, Drawing 1, Painting 1, Photography 1, Photography 2, Concert Band, Symphonic Band, Concert Choir, Chorale, Camerata, AP Music Theory

Students must also participate in 4 of the following clubs or trips/exchanges:

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

Please see your World Language instructor or school counselor if you have any questions. For more information - <http://cal.dpi.wi.gov/sites/default/files/imce/cal/pdf/globaled-certificate.pdf>



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 a 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 are the times lines 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 ten 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 at an earlier date 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.





Naviance Student is a comprehensive web-based platform that is accessible to all students and parents for college and career planning. Naviance Student is where your Academic & Career Plan (ACP) is created, stored and monitored. You may access Naviance Student by selecting the Naviance Student link on Grafton High School's main webpage. For questions about Naviance Student or ACP, please consult your school counselor, who is able to assist you.

Additionally, Naviance Student allows you to:

- Create plans for the future – goal setting, four-year planning, learning style inventories, résumé building and career and interest inventories. In Naviance Student, you will complete various assessments as part of your ACP assigned tasks to better prepare you for your future college and career goals.
- Research colleges – compare entrance requirements like GPA and standardized test scores, explore majors, student activities, athletic offerings and much more. Research summer enrichment opportunities.

Industry Recognized Certifications

Course Name

Business & Merchandising
 CAPP Entrepreneurship
 College Personal Finance
 Career Internship
 Computer Apps
 Advanced Foods & Restaurant Management
 Residential Construction
 PLTW (Any Engineering Course)

Certification Name

ASK Fundamental Business Concepts
 ASK Concepts of Entrepreneurship & Management
 ASK Concepts of Finance
 Wisconsin Employability Skills Certificate
 Microsoft Office Specialist
 Servesafe Certification
 Career Connections - Level 3 Certificate
 AutoDesk Fusion 360

2022-2023 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 2022-2023 school year:

COMMUNICATION ARTS

- Professional Writing to Publication Design and Production I
- Writing for Publications to Publication Design and Production II
- Technical Composition to Technical Writing and Communication
- Essentials of College Writing to College Composition
- Foundations of College Writing will no longer be offered

MATH

- Functions, Statistics & Trigonometry (FST) is now available for free college credit (transcripted credit) with MATC

MUSIC

- Symphonic Band to Wind Ensemble

ART

- Removal of Art Exploration being a prerequisite for grade 9 and 10 for the following courses: Drawing I, Painting I, Ceramics I, Art Metals I, Photography I, and Graphic Design I.
- Sophomore status is still required for Photography 1 and Graphic Design I

ART

AP Art History

Credit: 1

Level: 10, 11, 12

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

This course is for a mature student with a strong interest in the history of art. They will study works from Greek and Roman times through contemporary artists. A variety of different types of art will be discussed including architecture, sculpture, painting, and other media. Students will analyze and identify art from different perspectives and ultimately have the option to take the AP Art History test. Students will develop a deep understanding of art from the past and the present, and use this knowledge to earn AP credit in Art History.

AP Studio Art

Credit: 1

Level: 11, 12

Prerequisite: Minimum of 3 art classes. Teacher recommendation/approval required.

Fee: \$96 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: ½

Level: 9, 10, 11, 12

Fees: \$7.00 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.

Art Metals I

Credit: ½

Level: 9, 10, 11, 12

Fees: \$3.00 for materials

Students will investigate skills and techniques using brass, copper, nickel metals, 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.

Art Metals II

Credit: ½

Level: 10, 11, 12

Prerequisite: Art Exploration, Art Metals I

Fees: \$3.00 for materials

Students will focus on metal forming and finishing techniques such as forging, welding using an oxy-acetylene live fire torch, acid etching, raising sheet metal, building structures with sheet metal and advanced hammering techniques. The student will further the development of personal ideas and artistic themes, skills, and understanding of metal techniques and 3D media.

Art Metals III

Credit: ½

Level: 10, 11, 12

Prerequisite: Art Metals II

Fees: \$3.00 for materials

This course is designed for a mature student with a strong interest in art and metals. Work will require self-motivation and strong creative thinking skills. Student will focus on metal forming and finishing techniques such as casting, stone setting, forging, acid etching, welding using a live fire oxy-acetylene torch, raising and constructing sheet metal and the advanced use of art metal technologies.

Ceramics I

Credit: ½

Level: 9, 10, 11, 12

Fees: \$15.00 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 II

Credit: ½

Level: 10, 11, 12

Prerequisite: Ceramics I

Fees: \$15.00 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 III

Credit: ½

Level: 10, 11, 12

Prerequisite: Ceramics II

Fees: \$15.00 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. Student will specialize in 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 ability to effectively use art history, analysis, creative thinking, and evaluation to improve and create works of sophistication.

Drawing I

Credit: ½

Level: 9, 10, 11, 12

Students will develop a better understanding of drawing techniques as well as experiment with a variety of drawing mediums such as: pencils, charcoal, pastels, oil pastels, pen & ink and markers. 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. A sketchbook is required.

Drawing II

Credit: ½

Level: 10, 11, 12

Prerequisite: Drawing I

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, pastel and marker. Students will further advance their understanding and ability to draw using various techniques, media, and creative thinking skills. A sketchbook is required.

Drawing III

Credit: ½

Level: 10, 11, 12

Prerequisite: Drawing II

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. A sketchbook is required.

Exploration of 2-Dimensional Media

Credit: ½

Level: 11, 12

Prerequisite: Drawing I

Students will be exploring traditional and non-traditional 2D media and materials, primarily not covered in other art classes. Class will explore alternative processes such as fibers, collage, image transfer, mixed media and printmaking. The student will build upon the understanding of 2D media techniques learned in Art Exploration and Drawing I and be encouraged to experiment with new materials and techniques to expand skill set with 2D media.

Exploration of 3-Dimensional Media

Credit: ½

Level: 11, 12

Prerequisite: Ceramics I or Art Metals I

This course is for a mature student with a strong interest in art. Work will require self-motivation and strong creative thinking skills. The specific projects will be designed by the teacher for the student and will focus on 3D art forms not covered in other art classes. Investigations may include wood carving, stained glass, mixed media sculpture, fiber sculpture, metal sculpture, installation art and other contemporary art forms. The care, safety, and proper use of tools and equipment to be used in the creation of 3D media will be addressed. The student will build upon the understanding of 3D media techniques learned in ceramics or art metals and will be encouraged to experiment with new materials and techniques to expand their skill set with 3D media.

Graphic Design I

Credit: ½

Level: 10, 11, 12

Students will be exploring the tools, techniques, terms, and projects that designers work with every day. Class will learn the basics of Adobe Photoshop, as well as how to develop a concept from sketches to a polished design. Projects may include the design of things such as logos, posters, book jackets, albums, business cards, letterhead, billboards, T-shirts, illustration, digital photo editing and advertisements. The design industry as a whole and be able to effectively use Adobe Photoshop for a variety of purposes. Any printed media must be purchased by the student.

Graphic Design II

Credit: ½

Level: 10, 11, 12

Prerequisite: Graphic Design I

This course is for a student with a strong interest in art and graphic design. Work will require self-motivation, teamwork and strong creative thinking skills. The student will build upon the knowledge and skills that were learned in Graphic Design I. The student will develop a masterful understanding of Adobe Photoshop and its processes and techniques used by the design industry. The class will use this knowledge to develop products from ideation through customer service and creative problem solving. Any printed media must be purchased by the student.

Painting I

Credit: ½

Level: 9, 10, 11, 12

Students will focus on developing a basic understanding of painting techniques, color and how to use tools such as a pallet knife and various types of bristle brushes. The course investigates historical and contemporary color techniques and theory, using Tempera, acrylic and watercolor paints. Students must have a set of brushes or they may be purchased for \$11.

Painting II

Credit: ½

Level: 10, 11, 12

Prerequisite: Painting I

In this course the student will continue to explore different types of painting techniques for creating dynamic compositions. Students may work with tempera, acrylic, latex, oil, watercolor, spray paint or mixed media. Painting subjects will include abstraction, landscape, still life, and portraiture. Students must have a set of brushes or they may be purchased for \$11.

Painting III

Credit: ½

Level: 10, 11, 12

Prerequisite: Painting II

This course is for students with a strong interest in art and painting. Work will require self-motivation and strong creative thinking skills. Painting subjects will vary depending on students' interests and will be tailored by the teacher for each project. The student will develop a masterful understanding of painting in various styles along with a strong ability to think creatively and apply ideas in a meaningful way. Students must have a set of brushes or they may be purchased for \$11.

Photography I

Credit: ½

Level: 10, 11, 12

Fees: Students must purchase a camera card of 16G or larger, and a card reader. Any photos printed must be paid for by the student. Photo costs range from \$1 (4x6in) - \$15 (20x30in).

Students will be taking black and white and color photos using a digital camera. You will learn about basic digital camera control, flash, and the relationship between shutter speed, aperture & ISO. Class will also discuss the elements of photographic composition and learn to edit, organize and publish digital photos using Adobe Photoshop. The student will build an understanding of photography as an art form and the ability to take, organize and edit digital photographs using numerous techniques and creative thinking skills.

NOTE: It is preferred that students SUPPLY THEIR OWN DIGITAL CAMERA. THE CAMERA MUST BE SIX MEGA PIXELS OR HIGHER, HAVE A MANUAL MODE, AND BE EQUIPPED WITH A FLASH TERMINAL. DIGITAL SLR (removable lens) CAMERAS ARE REQUIRED AND 300 RESOLUTION CAPABILITY MINIMUM. *The art department owns 10 digital SLR camera kits. Students wishing to rent a camera kit will be charged a non-refundable \$55 per semester rental fee (first come, first serve) and parents are asked to sign a waiver of replacement in the event the camera or other supplies are lost or damaged.*

Photography II

Credit: ½

Level: 10, 11, 12

Prerequisite: Photography I

Fees: same as Photography I

This course is for a mature student with a strong interest in art and photography. Work will require self-motivation and strong creative thinking skills. Class will focus on advanced digital camera and computer editing techniques. Advanced Adobe Photoshop training will be covered. The student will further the understanding of photography and a strong ability to think creatively and apply ideas in a meaningful way.

BUSINESS & INFORMATION TECHNOLOGY

Business/Finance

9-12 grade

Business & Merchandising
1 credit

10-12 grade

Accounting
1 credit

11-12 grade

Advanced Accounting
1 credit

CAPP Entrepreneurship
.5 credit

Career Internship
.5 or 1 credit

College Personal Finance
.5 credit

Personal Finance
.5 credit

Sports & Entertainment Management
.5 credit

Digital Video Design
1 credit

Computer Applications for CCR
.5 credit

Web Design
.5 credit

Desktop Publishing
.5 credit

Information Technology



***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)

Accounting will teach students how to plan, keep, summarize, and interpret financial records of a business. Accounting theory and principles based around three basic systems will be introduced: 1) cash journal, 2) five journal system, and 3) the combination journal. Units on state and federal tax preparation, automated accounting, and simulated practice sets relating to all aspects of accounting play an integral part of this course. The goal of Accounting is to prepare you to use accounting concepts for personal use and/or future employment. You will develop an appreciation for how sound accounting records help businesses operate efficiently and profitably by keeping track of how much is earned and how much is spent. Accounting is an ideal course for any student planning to study business or marketing or run your own business someday. Students will be involved in the Hawk's Nest by tracking the financials and assisting in decision making based on their findings.

Advanced Accounting

Credit: 1

Level: 11, 12

Prerequisite: Accounting

MATC Transcribed Course ACCTG111 (4 credits)

Advanced Accounting is structured to offer accounting concepts that go beyond the introductory level and to prepare students for college accounting and/or entry-level accounting positions. Advanced levels studied will be in the areas of Cash and Accrual Accounting; Partnership Accounting; Departmentalized Accounting; General Accounting Adjustments; and Corporate, Cost and Managerial Accounting. Practice sets, computerized accounting software, and job shadowing play an important part in this course to give a more realistic understanding of what the field of accounting is and the many job opportunities available in the world of work. Students will be involved in the Hawk's Nest by tracking the financials using the Square register system in addition to Quickbooks software.

Business & Merchandising

Credit: 1

Level: 9, 10, 11, 12

Students will learn foundational business skills in the areas of Business Management, Operations, Law, Communications, International Business, Marketing, and Merchandising. This course will be very collaborative with students working in teams on various projects. Operation of the Hawk's Nest will be a big piece of the learning with students making various decisions such as product to sell, pricing, store layout, operation of the store, and more.



CAPP Entrepreneurship



Credit: ½

Level: 10, 11, 12

Fees: If taken for college credit, approximately \$300 for 3 college credits. College credit is available through UW-Oshkosh Cooperative

Enrolling in CAPP: Entrepreneurship (UW-Oshkosh BUS 198: Introduction to Business) is a convenient and affordable way for students to earn concurrent high school and college credit that will transfer to any college/university after high school. This course is designed as an introductory course available to juniors and seniors interested in learning more about starting and running their own business. Students will be exposed to many different aspects of the world of business including economics, management, marketing, distribution, business formation, finance, etc. The class will complete a business plan of a business they create, also students will create a product to sell at the Hawk's Nest as part of our product development unit.



Career Internship

Credit: ½ or 1

Level: 11, 12

The purpose of this course is to improve the skills needed for students to earn employment. The objectives for every student in the internship program would be to learn what careers interest them, what skills/knowledge are needed to enter a career, and connect classroom knowledge to the workplace. These objectives would allow students to determine a career that fits their interests and would eliminate potential unknowns associated with a career choice. Regardless if a student were entering the workforce, or going to college, they would understand the skills and expectations employers are looking for in them in the future

College Personal Finance

Credit: ½

Level: 10, 11, 12

Fees: If taken for college credit, approximately \$300 for 3 college credits. College credit is available through UW-Oshkosh Cooperative

Note: This course fulfills the Financial Literacy graduation requirement.

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

This college level course studies the major financial decisions encountered by individuals. Topics covered are budgeting, use of credit, automobile and consumer durables, insurance, housing decisions, taxes, retirement planning, estate transfer and investments. Students will also take part in a stock market simulation to test their investing skills.

Computer Applications for College and Careers

Credit: ½

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: ½

Level: 9, 10, 11, 12

If you like to design and like seeing your designs come to life this class is for you! Desktop Publishing students will use Professional Software Adobe Indesign to create a wide variety of projects. Examples of projects include: t-shirt design, decal design, marketing poster creation, creating your own calendar, and more! Students will be involved in creating advertisements for the Hawk's Nest (school store) and also use the GHS Fabrication Lab to implement their designs. Students will also have the opportunity to sell their work in the Hawk's Nest.

Digital Video Design

Credit: 1

Level: 9, 10, 11, 12

Digital Video Design offers a comprehensive introduction to the key elements of design principles and management skills needed to develop dynamic, interactive multimedia products. Communication, collaboration, and publishing via elements of video such as sound, animation, video, text, and graphics will be explored. Adobe Premiere will be the primary software used in the class in post production. Students will engage in a variety of projects related to school activities in an effort to further promote school and district wide activities and events.

Game and Mobile App Design

Credit: ½

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: ½

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 graduation

Personal Finance will provide fundamental coverage in money management (paychecks, taxes, and checking accounts), financial security (savings accounts, stocks, bonds, and mutual funds), credit management, and risk management (personal risk and auto, home, and health insurance).

Sports & Entertainment Management

Credit: ½

Level: 10, 11, 12

This course is for students interested in learning how the sports and entertainment industries implement management and marketing strategies to promote, sponsor, and operate events. Topics covered will include sponsorship development, event management, licensing and merchandising, promotion, endorsements, in-game promotions, and ticket sales. Classroom projects, guest speakers, and a VIP experience with a professional sports team (i.e. Green Bay Packers, Milwaukee Bucks, etc.) will be included.

Web Design

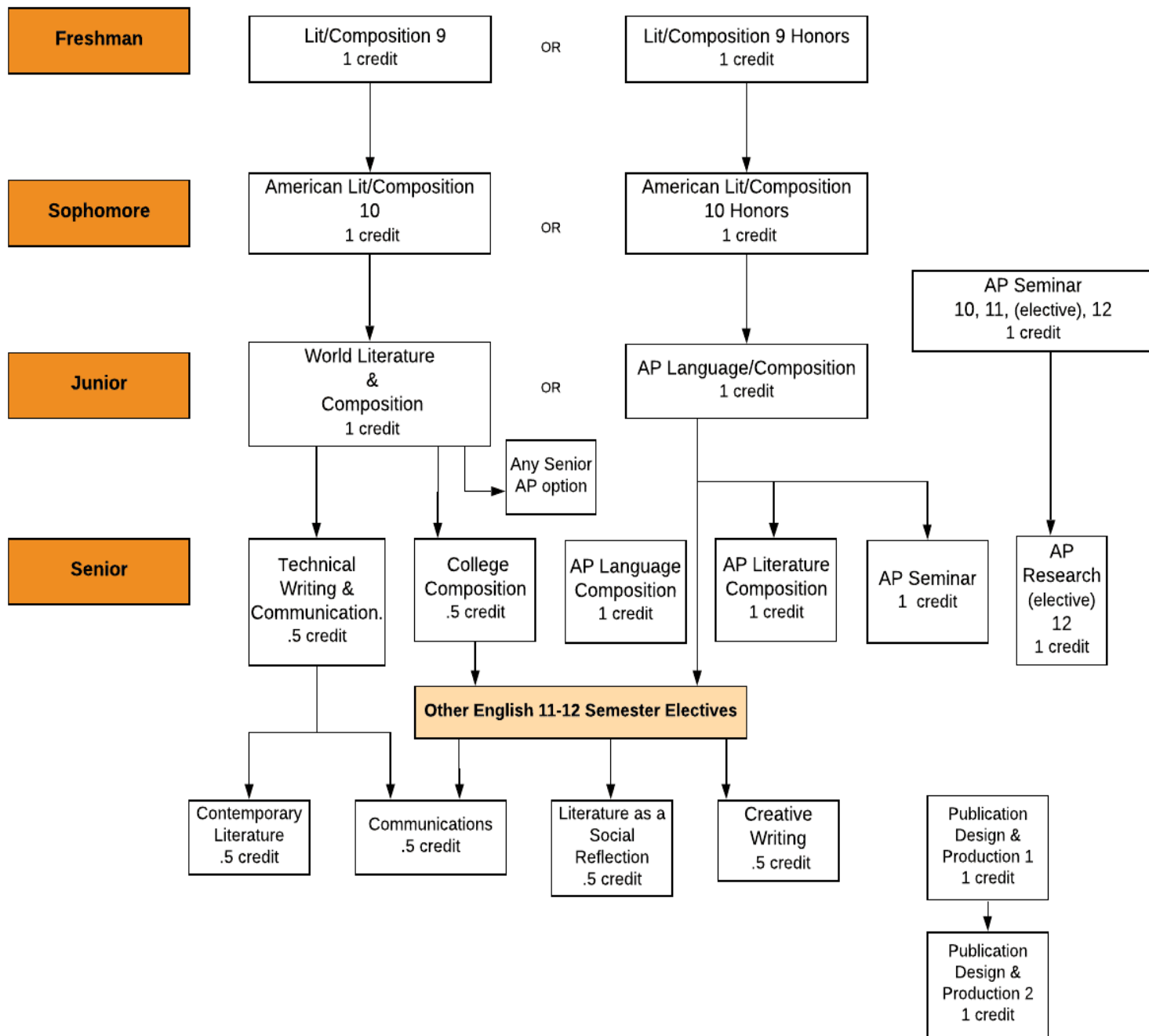
Credit: ½

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 Hawk's Nest (School Store) website. A variety of online programs will be utilized to help maintain and manage web pages.



COMMUNICATION ARTS



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. 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. Honors level students enter freshman year having displayed strong reading, writing, and analytical skills.

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.

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.

AP Language and Composition

Credit: 1

Level: 11, 12

Prerequisite: teacher recommendation

Fee: \$96 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: \$96 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 Seminar

Credit: 1

Level: 10, 11, 12

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

Fee: \$144 for the AP Exam (optional)

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.



AP Research

Credit: 1

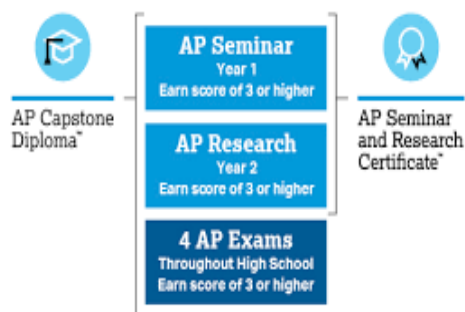
Level: 12

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: \$144 for the AP Exam (optional)

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. [AP Capstone Info](#). Benefits of [AP Capstone](#) program.



Contemporary Literature

Credit: ½

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.

Communications

Credit: ½

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.

Creative Writing

Credit: ½

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.

College Composition

Credit: ½

Level: 12

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

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 refine the forms of expository expression.

Literature as Social Reflection

Credit: ½

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 I

Credit: 1

Level: 10, 11, 12

Note: *Not approved by the NCAA*

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 & Production II

Credit: 1

Level: 11, 12

Prerequisite: Publication Design & Production I

Note: *Not approved by the NCAA*

This is an elective class, which does not replace any required English class.

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 and Final Cut Pro.

Technical Writing & Communication

Credit: ½

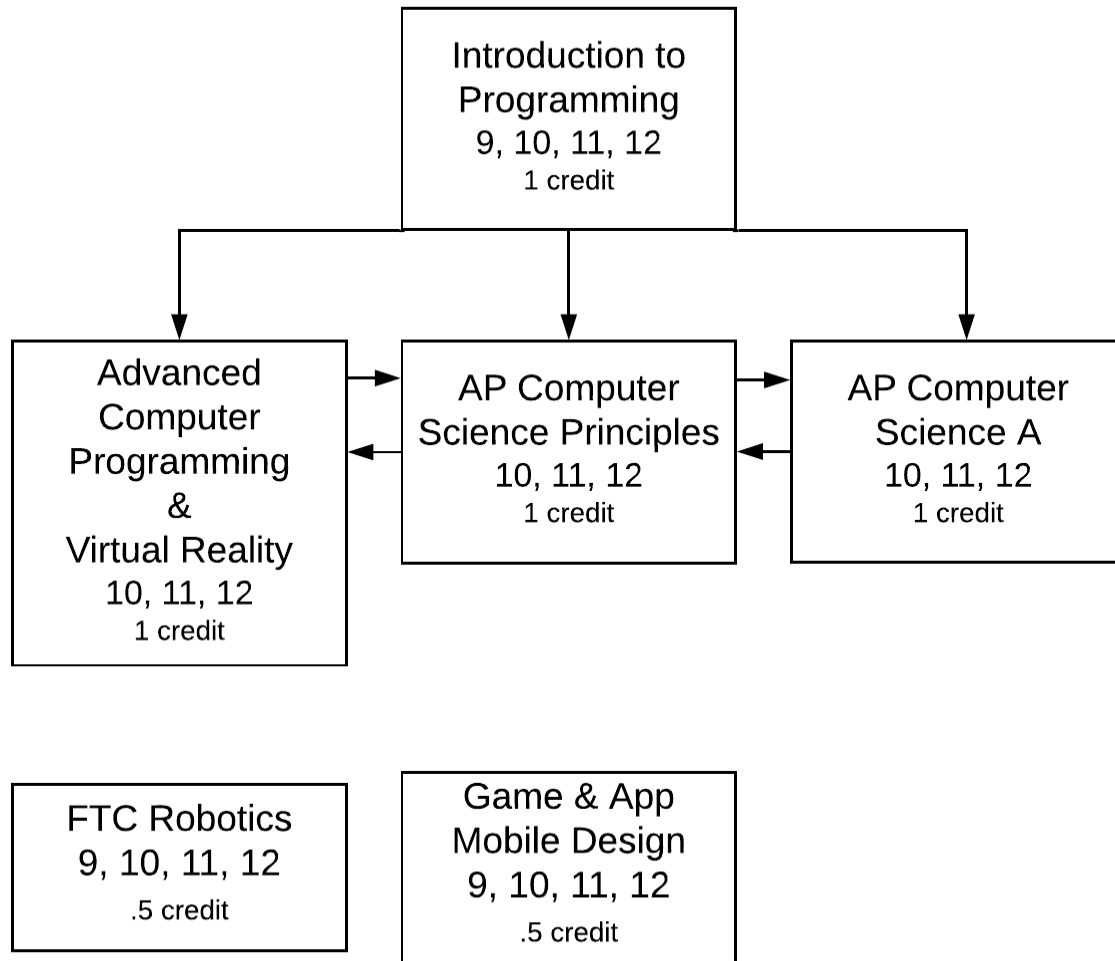
Level: 12

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.

COMPUTER SCIENCE



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.

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, and object oriented programming. 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. Not recommended to take concurrently with AP CSA.

AP Computer Science Principles

Credit: 1

Level: 10, 11, 12

Prerequisite: Introduction to Programming or Teacher Approval

Fees: AP practice book and \$96 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 understand how computer science impacts people and society, and design creative artifacts with practical, personal or societal intent.

AP Computer Science A

Credit: 1

Level: 10, 11, 12

Prerequisite: Introduction to Programming or Teacher Approval

Fees: AP practice book and \$96 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.



FTC Robotics

Credit: .Level: 9-12

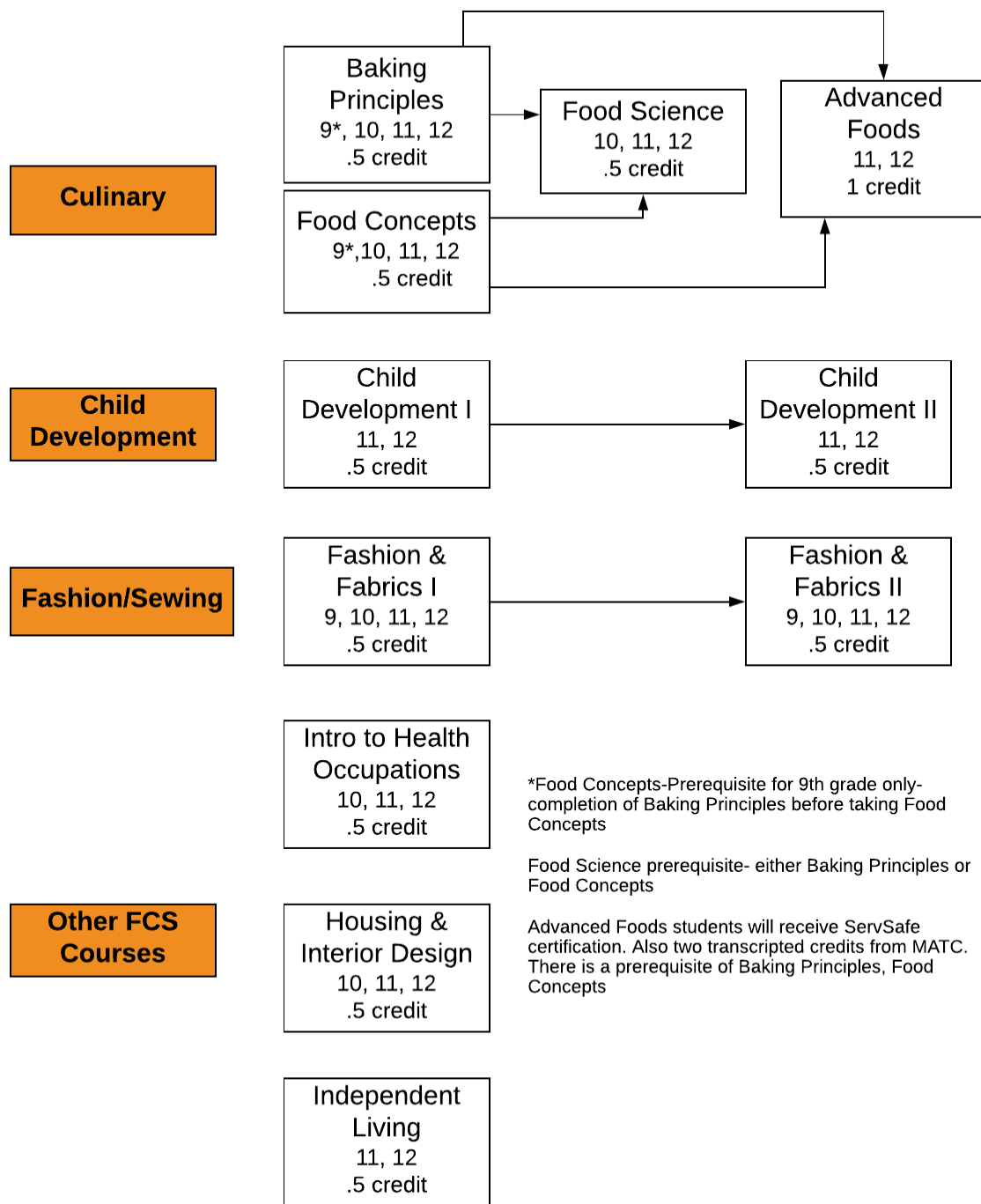
Fees: \$25 for competition costs

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 Challenge 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



FAMILY AND CONSUMER SCIENCE



Baking Principles

Credit: ½

Level: 9, 10, 11, 12

Fees: \$15.00

This course will consist of basic baking fundamentals. The study of how ingredients work together and the ratios will give anyone the freedom of developing their own creative recipes.

Preparation of food will include: quick breads, pies, yeast breads, cookies and desserts. 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.

Food Concepts

Credit: ½

Level: 9, 10, 11, 12

Fees: \$15.00

Prerequisite: Baking Principles if taking second semester in 9th grade.

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. Units include: Grains, Eggs and Dairy, Soups and Sauces, Meat and Poultry.

Food Science

Credit: ½

Level: 10, 11, 12

Prerequisite: Food Concepts or Baking Principles (formerly Culinary Arts). Must have either course prior to taking Food Science.

Fees: \$15.00

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. Units include sensory evaluation, lipids, simple and complex carbohydrates, food additive and analogs, proteins, and enzymes.

Advanced Foods & Restaurant

Management

Credit: 1

Level: 11, 12

Prerequisite: Food Concepts and/or Baking Principles (former Culinary Arts)

Fees: \$30.00 (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. At the start of the course, semester, 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.

Child Development I

Credit: ½

Level: 11, 12

MATC transcribed course CHILDD-148 (3 credits)

Students will learn about characteristics needed to be a successful child care provider, child care programs and childcare careers. 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 preschool 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 II

Credit: ½

Level: 11, 12

Prerequisite: Child Development I

**MATC transcribed course CHILDD-178
(3 credits)**

Students will continue their study and observations of children. This will take place in the form of a preschool 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, parenting skills, special needs 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 occurs in the professional Child Care setting.

Introductions to Health Occupations

Credit: ½

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. A blend of guest speakers, field trips and opportunities for job shadowing will provide a well-rounded view of the healthcare field.

Fashion and Fabrics I

Credit: ½

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, construction principles, reading patterns and follow directions to create a variety of projects. The students will also explore the world of fashion.

Fashion and Fabrics II

Credit: ½

Level: 9, 10, 11, 12

Prerequisite: Fashion and Fabrics I

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.

Housing and Interior Design

Credit: ½

Level: 10, 11, 12

Students will learn about the elements and principles of design, the role of color, recognizing furniture styles and selecting furniture. 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 that foster learning. Careers in interior design and related occupations are also explored.

Independent Living

Credit: ½

Level: 11, 12

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

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.



Algebra

Credit: 1

Level: 9, 10, 11, 12

Scientific Calculator (preferably TI-30X IIS) is required

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: ½ per semester

Level: 9

Prerequisite: MAP score performance and recommendation of 8th grade teacher.

Scientific calculator (preferably TI-30X IIS) is required.

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: completion of Algebra

Graphing calculator (TI-83 or TI-84, preferably not a Casio model) is required

This course begins with a review of linear equations (solving and graphing) and then transitions to higher degree equations such as parabolas and hyperbolas. This course begins a transition to higher level math courses and introduces using a graphic calculator. Topics covered include: Polynomial and Rational Functions, Complex Numbers, Rational Exponents, transformation of Functions, Sequences and Trigonometric Functions. This course allows the student to broaden algebraic principles developed in Algebra and prepares the student for advanced and college preparatory classes.

Algebra 2 Honors

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Algebra and Geometry or Geometry Honors

Graphing calculator (TI-83 or TI-84, preferably not a Casio model) is required

Algebra 2 Honors is an accelerated version of Algebra 2. The greater depth, breadth and rigor of the course is intended to prepare students for success in future math courses including 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. The use of technology is an important feature of this course.

AP Calculus AB

Credit: 1

Level: 11, 12

Prerequisite: Satisfactory completion of Pre-Calculus and consent of previous instructor.

Fees: \$25.00 for a workbook and solution key and \$96 for the AP Exam (optional)

A graphing calculator is required (TI-83 or TI-84, preferably not a Casio model)

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 Pre-Calculus or AP Calculus (AB) and consent of previous instructor

Fees: \$25.00 for a workbook and solution key and \$96 for the AP Exam (optional)

A graphing calculator is required (TI-83 or TI-84, preferably not a Casio model)

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 Statistics

Credit: 1

Level: 11, 12

Prerequisite: completion of Pre-Calculus and consent of previous instructor

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

Graphing calculator (TI-83 or TI-84, preferably not a Casio Model) is required.

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.

Functions, Statistics & Trigonometry

MATC

Credit: 1

Level: 11, 12

Prerequisite: Completion of Algebra 2 and consent of previous instructor.

MATC transcribed course Math 201 & Math 202 for 7 credits

Graphing calculator (TI-83 or TI-84, preferably not a Casio model) is required

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 functions and their graphs: polynomial, rational, logarithmic, and exponential. The second phase will focus on Trigonometry/Analytic Geometry: right triangle properties, trigonometric functions and graphs, inverse trig functions, conics and polar equations. In the Probability/Statistics portion of the course, the following topics will be covered: counting principles, permutations, combinations, data collection and analysis.

Geometry

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: completion of Algebra.

Ruler and protractor, Scientific Calculator (preferably TI-30X IIS) required

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, Scientific Calculator (preferably TI-30X IIS) required

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

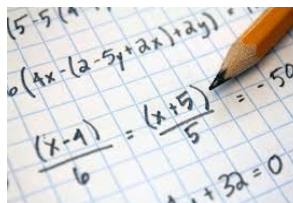
Credit: 1

Level: 10, 11, 12

Prerequisite: Algebra Teacher recommendation

Ruler and protractor, Scientific Calculator (preferably TI-30X IIS) required

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.



Pre-Calculus

Credit: 1

Level: 10, 11, 12

Prerequisite: Completion of Algebra 2 and consent of previous instructor

Graphing calculator (TI-83 or TI-84, preferably not a Casio model) is required

This course covers advanced mathematical topics such as: basic functions, trigonometry, exponential & logarithmic functions, vectors, matrices, sequences/series, statistics, and limits. This course prepares the student for AP Stats and/or AP Calculus AB. Some high-achieving students may take AP Calculus BC upon completion of this course.

MUSIC

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.

Wind Ensemble

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Audition/Consultation with Director

The GHS Wind Ensemble is the most advanced ensemble offered at Grafton High School. Enrollment in Wind Ensemble is earned through audition 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 that include, unique performances at other GSD schools or the community and clinics among others.

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.

Jazz Ensemble

Credit: 0.5

Level: 9, 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 9-12 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 – 4/5	Drum Set – 1/2
Trumpet – 4/5	Auxiliary Percussion & Vibraphone – 1

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

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.

Camerata

Credit: 1

Level: 9, 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.

Music Theory

Credit: ½

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.

AP Music Theory

Credit: ½

Level: 10, 11, 12

Prerequisite: Music Theory

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.



Fundamentals of Theatre

Credit: ½

Level: 11, 12

Prerequisite: None

This course is designed for students who have an interest in theatre, 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 theatre 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 theatre arts and prepare them for a future in this area.

PHYSICAL EDUCATION AND HEALTH

9th Grade

- Health
- Phy Ed 9

10th Grade

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

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.

Health

Credit: ½

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.

Physical Education 9

Credit: ½

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.

Net Games

Credit: ½

Level: 10, 11, 12

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.

Personal Fitness

Credit: ½

Level: 10, 11, 12

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, and aquatics.

Strength Training

Credit: ½

Level: 10, 11, 12

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.



Advanced Strength Training

Credit: ½

Level: 10, 11, 12

Prerequisite: Strength Training or teacher approval

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.

Physical Education 12

Credit: ½

Level: 12

Fees: \$25

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: ½

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.

Officiating

Credit: ½

Level: 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: ½

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.

Team Sports

Credit: ½

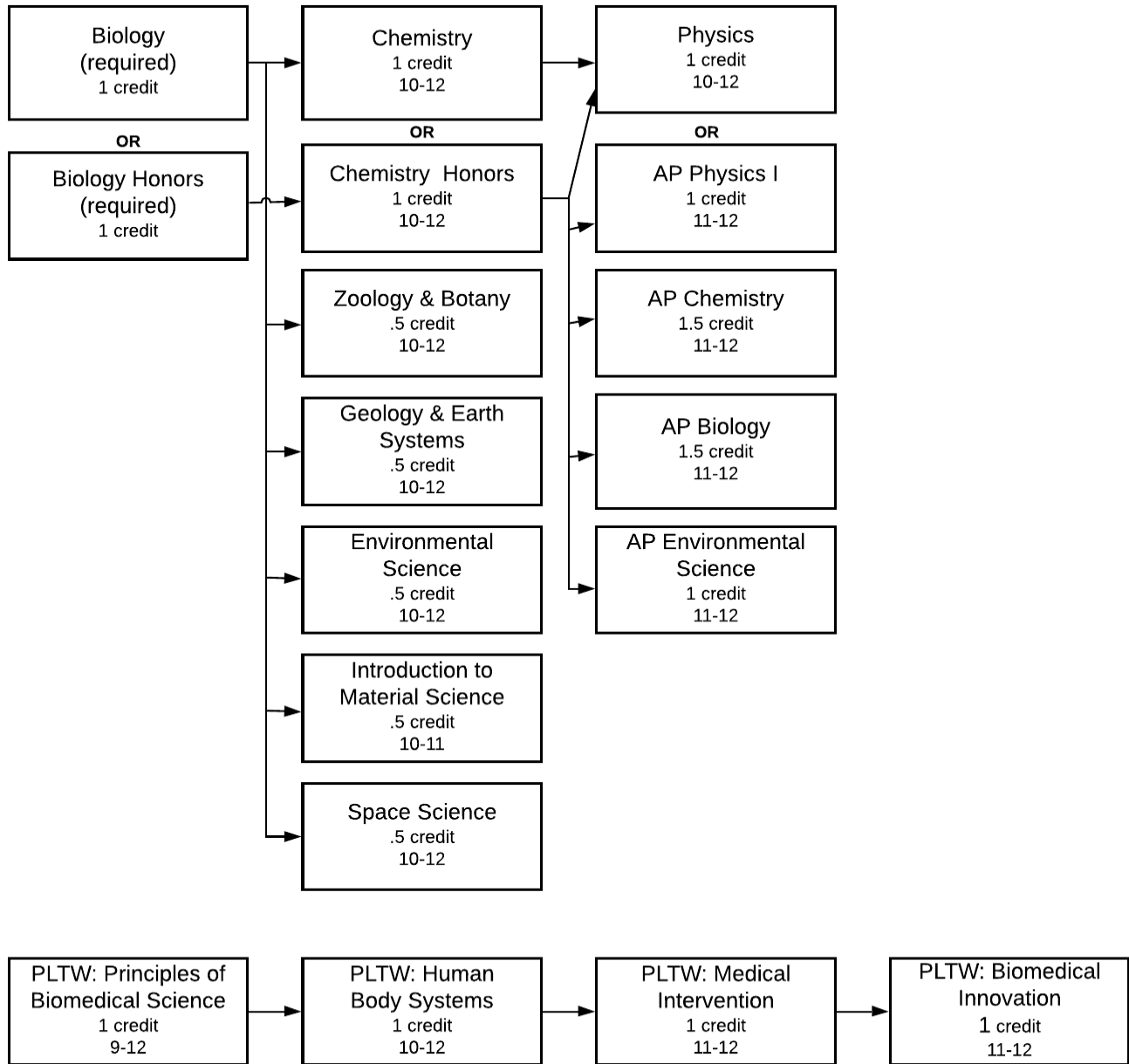
Level: 10, 11, 12

Fees: \$25

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



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 goggles, lab book and consumables; \$96 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, Gases, 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. 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.

AP Physics I

Credit: 1

Level: 11, 12

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

Fees: \$96 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 and electricity. Extensive use of math is required. Students must be in a minimum of Advanced Math 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: Passing grades in Biology and Algebra. If Algebra grade is lower than a B-, it is recommended to take Chemistry a year later.

Fees: \$20 goggles, lab book and consumables

Chemistry is the study of the structure of matter and the changes it undergoes. Some topics studied are atomic and molecular structure, chemical reactions, stoichiometry, solutions, periodic table, and gas laws. Special emphasis is placed on the chemical reactions, problem solving, periodic relationships, and the structure of the atom. Since analytical problem solving is an important part of this course, math proficiency is essential. This is a college-prep lab-intensive course.

Chemistry Honors

Credit: 1

Level: 10, 11, 12

Prerequisite: Students should have successful completion of Geometry and Biology with a B or better

Fees: \$20 goggles, lab book and consumables

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. Accelerated Chemistry is highly recommended for students interested in taking AP Science courses.

Environmental Science

Credit: ½

Level: 10, 11, 12

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: ½

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. The course will also explore how current actions of man interact and affect Earth's spheres leading to local and global changes. 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: ½

Level: 10, 11

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

Fees: \$15 lab materials

Material Science is a lab intensive course that will focus on the fundamental relationships between the structure, properties, processing, and performance of materials. Students will engage in the study of solids, metals, polymers, ceramics/glass and composites. This course will prepare students for further physical science courses.

Physics

Credit: 1

Level: 10, 11, 12

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

Physics deals with scientific measurement, graphical analysis, the laws of motion, the effect of forces, work and energy, the properties of waves, sound, light, electricity, electrical circuits, and magnetism. This class requires almost daily use of algebra and occasional use of concepts from geometry and advanced algebra. Students will gain skills in problem solving and critical thinking. Students will work in small collaborative groups to design and complete experiments and engineering challenges. Students will frequently analyze data in a variety of graphical formats which will help prepare them for the science reasoning act test. Additionally, there will be a field trip to the Kalahari or other suitable entity for the study of motion.

PLTW: Principles of Biomedical Science



Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Biology (or concurrent enrollment)

Fees: \$25 for consumable lab supplies and lab books.

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th or 10th grade students.

PLTW: Human Body Systems



Credit: 1

Level: 10, 11, 12

Prerequisite: Biology, Chemistry or concurrent enrollment in Chemistry. Priority will be given to students who have completed Principles of Biomedical Science

Fees: \$25 for consumable lab supplies

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. Exploring science in action, students build organs and tissues on a skeletal Manikin®, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

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 for consumable lab supplies

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.

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 beneficial but not required.

Fees: \$25 for consumable lab supplies

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. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

NOTE FOR ALL PLTW COURSES:

Transcripted credits are available to students from a variety of PLTW affiliated Universities throughout the United States. Most Universities require a grade of B or better as well as a proficient score on the end of course exam. Milwaukee School of Engineering (MSOE) is our regional PLTW university. The exact requirements for the score on the end of course exam vary by university. Check with individual colleges and universities for information on recognition opportunities they offer to PLTW students.

Space Sciences

Credit: ½

Level: 10, 11, 12

Prerequisite: Algebra

Space Sciences includes the study of the Earth-moon-sun system, the solar system, 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. Additionally, there will be a field trip to the Planetarium for the study of space.

Zoology/Botany

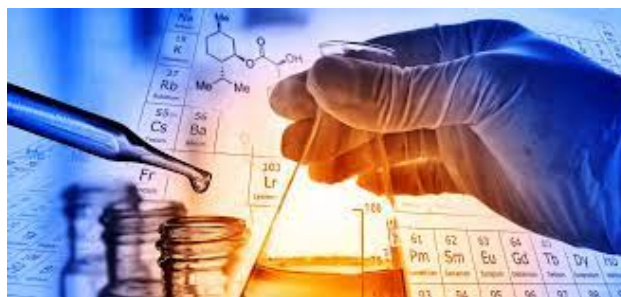
Credit: ½

Level: 10, 11, 12

Prerequisite: Biology

Fees: \$25 (dissection materials)

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

Global Studies*
9
1 credit

OR

AP Human
Geography*
9
1 credit

US History **
10
1 credit

OR

AP US
History**
10
1 Credit

Ancient History
11, 12
.5 credit

Medieval
History
11, 12
.5 credit

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

World Issues
11, 12
.5 credit

Geography
10, 11, 12
.5 credit

AP
Macroeconomics
11, 12
.5 credit

Sociology
10, 11, 12
.5 credit

AP
Microeconomics
11, 12
.5 credit

Revolutions
10, 11, 12
.5 credit

AP Psychology
11, 12
1 credit

American
Issues
10, 11, 12
.5 credit

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

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

*****Required to graduate
10th, 11th, or 12th grade:
American Government**

American Government

Credit: .5

Level: 10-12

Note: This is a required course 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: ½

Level: 10, 11, 12

This course will help develop an ability to rationally discuss current issues in American policy from a factual and research base not an emotional base. 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: ½

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. A paper of 1200 - 1500 words, with three to four sources, and in appropriate college term paper style is also required.

AP Human Geography

Credit: 1

Level: 9

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

Fees: \$96 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 changing interconnections among places. Interested students may take the Advanced Placement Human Geography examination in the spring.

AP Macroeconomics

Credit: ½

Level: 11, 12

Fees: \$10 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; **\$96 for the AP Exam (optional)**

Note: This course fulfills the Financial Literacy graduation requirement

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: ½

Level: 11, 12

Prerequisite: AP Macroeconomics

Fees: \$10 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; **\$96 for the AP Exam (optional)**

Note: This course fulfills the Financial Literacy graduation requirement

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: \$96 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. This course is recommended for all college-bound students.

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. \$96 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: ½

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

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

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.

Medieval History

Credit: ½

Level: 11, 12

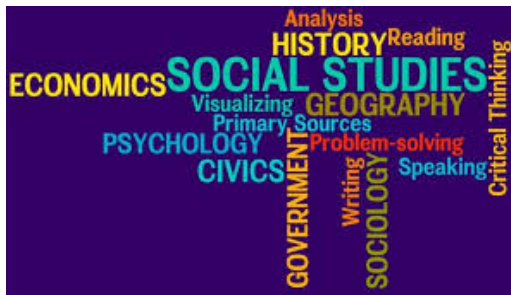
A study of the political, social, and economic development of people and their society from the Fall of Rome up to the Renaissance. Requires research papers and a creative writing assignment. Students will analyze various medieval writings including biographies, essays, journals, etc.; comparing and 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: ½

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: ½

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 not emotionally 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.

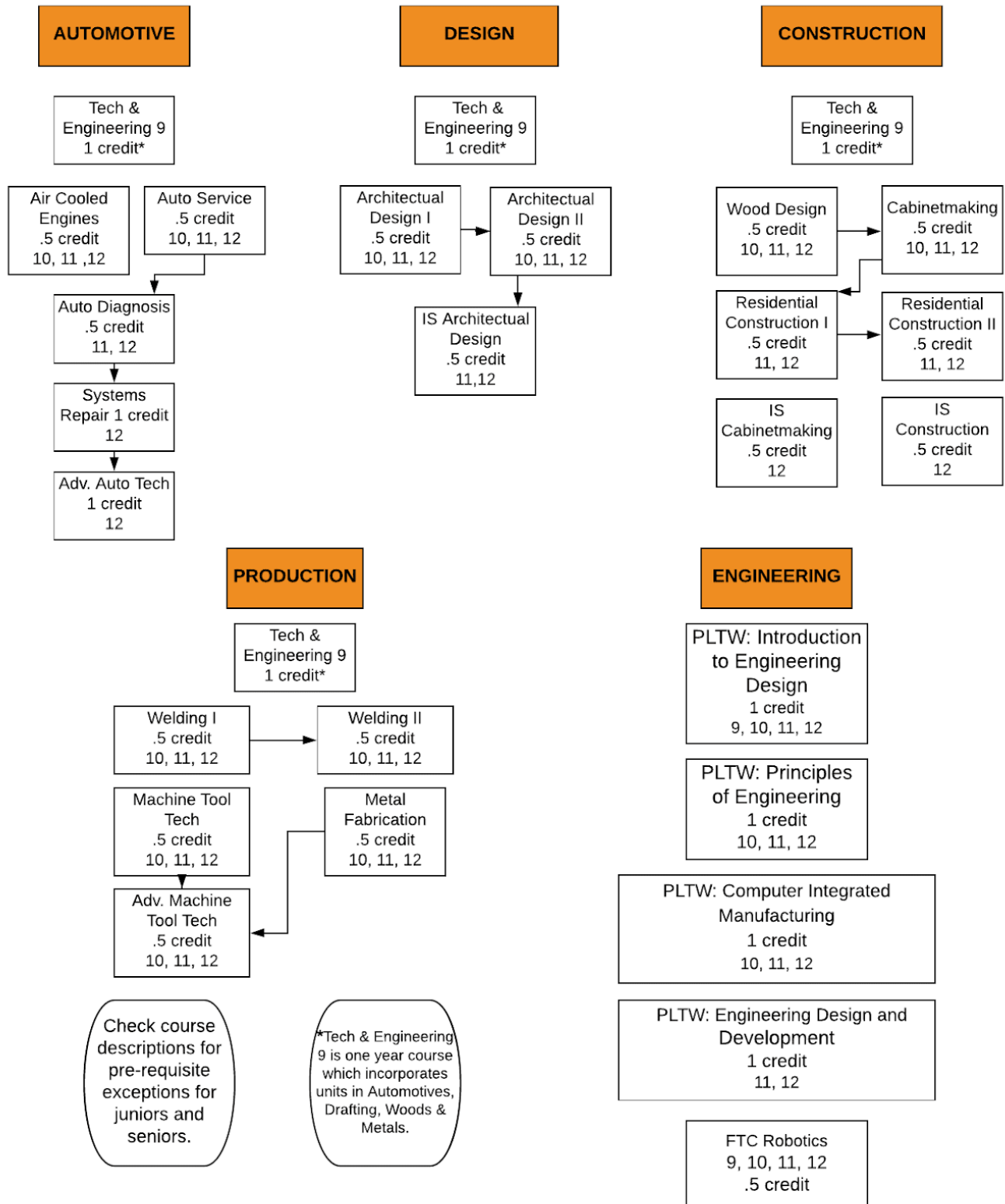
World Issues

Credit: ½

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 AND 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 "C" or better in Auto Service, Auto Diagnosis, and Auto Systems Repair. Instructor approval needed.

Fees: \$10 lab materials

MATC transcribed course for 6-8 credits

The course covers 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 NATEF 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 G1.

Advanced Machine Tool Technology

Credit: ½

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: ½

Level: 10, 11, 12

Fees: \$10 lab materials plus any personal engine parts needed

Note: This course is not a prerequisite for other automotive courses.

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.

Auto Diagnosis

Credit: ½

Level: 11, 12

Prerequisite: Final grade of "C" or better in Auto Service. Instructor approval needed.

Fees: \$10 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 NATEF 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: ½

Level: 10, 11, 12

Fees: \$10 lab materials

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 NATEF 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.* This class is a prerequisite for Auto Diagnosis, Systems Repair and Advanced Autos

Auto Systems Repair

Credit: 1 (1st semester/every day)

Level: 12

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

Fees: \$10 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 NATEF 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. 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.

Cabinetmaking

Credit: ½

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: 9-12

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: ½

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: ½

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

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, 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 I

Credit: ½

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.

Residential Construction II

Credit: ½

Level: 11, 12

Prerequisite: Residential Construction I

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.

Technology & Engineering 9

Credit: 1 (four 9-week segments)

Level: 9

Fees: \$35 lab materials

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 I

Credit: ½

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: ½

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: 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 Skills USA Welding Events.

Wood Design

Credit: ½

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-Cabinetmaking

Credit: ½ 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: ½ 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: ½ 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, in advance, the area or areas to be studied, and projects to be completed. Students will finish up course work related to MATC Articulation agreement in welding. Upon completion, students will have earned: 2 MATC credits for blueprint reading and 5 MATC credits for GMAW.

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. A student chooses the AIM option at the beginning of a semester with parent, teacher, and counselor approval.

During every unit of a semester-long T&E class, the student will complete additional benchmark and summative activities that apply math concepts and calculations to the technical discipline of the class. At each unit test in the T&E class there will be an AIM assessment. There will be a separate AIM final exam covering math concepts from the whole semester.

AIM will require extra time outside of the regular T&E class to study, complete homework assignments, and to do related assessments. Successful completion of AIM earns .25 math credit for each .5 credit T&E class.

Grades of B or better on both of the AIM assignments and assessments as well as the regular T&E class are required to earn the credit. Grades of C or better on both the AIM final exam as well as the regular T&E class are required to earn the credit.

Independent Seminar - Machining

Credit: ½ 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: ½ 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.

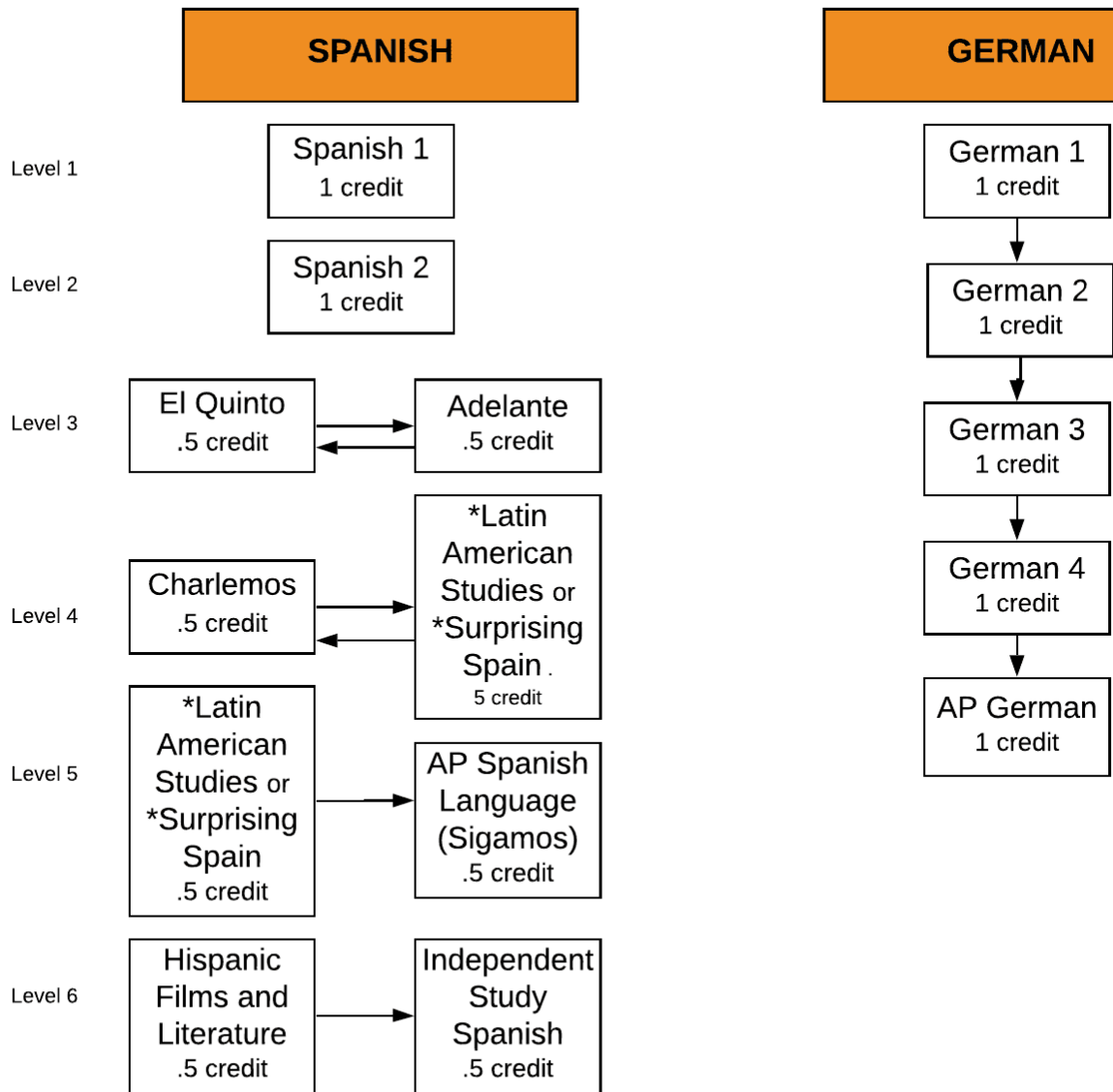
Assignments and assessments in both the AIM and the regular T&E classes are expected to be completed in a timely fashion.

Students will gain an increased understanding and application of how mathematics is used in specific technology and engineering disciplines. Students will gather data, make measurements, use charts and graphs, make use of formulas, and determine action to be taken based on applying mathematics to specific T&E disciplines. Aim will help the student meet the DPI rule pertaining to math required for graduation (High School Graduation Standards Wisconsin Statute 118.33 (1) c.).

A.I.M. can be taken with the following courses:

Air-Cooled Engine Tech, Auto Service, Auto Diagnosis, Auto Systems Repair, Advanced Autos, Woods 1 & 2, Residential Construction 1 & 2, Welding 1 & 2, Metal Forming, Machine Tool Tech, Adv. Machine Tool Tech, Mechanical Design 1 & 2, Architectural Design 1 & 2

WORLD LANGUAGE



** Each course is offered every other year*

Spanish I

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.

Spanish II

Credit: 1

Level: 9, 10, 11, 12

Prerequisite: Spanish I

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.

El Quinto

Level 3 course, taken right before or after Adelante

Credit: ½

Level: 10, 11, 12

Prerequisite: Spanish II

All four language skills will be addressed: reading, writing, speaking and listening. Emphasis will be on paired and small group work. Through readings, videos, authentic text and cultural activities, students will continue to learn about Hispanic contributions to culture and civilizations. This course concludes with the Realidades textbook series. This class will be taught in Spanish with some English.

Adelante

Level 3 course, taken right before or after El Quinto

Credit: ½

Level: 10, 11, 12

Prerequisite: Spanish II

This course will be a comprehensive review of Spanish grammar and an introduction to advanced grammatical concepts to improve writing skills. Course content will be pronouns, verbs and their tenses, prepositions, adjectives, sentence structure, translation, and correct use of a Spanish/English dictionary. This course is designed to aid the students in a review and continuation of Spanish grammar and to improve writing skills.

Charlemos

Level 4 conversation course

Credit: ½

Level: 11, 12

Prerequisite: El Quinto and Adelante

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.

Surprising Spain

Level 4/5 cultural course, offered every other year

Credit: ½

Level: 11, 12

Prerequisite: El Quinto and Adelante

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.

Latin American Studies

Level 4/5 cultural course, offered every other year

Credit: ½

Level: 11, 12

Prerequisite: El Quinto and Adelante

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.

AP Spanish Language

Credit: ½

Level: 12

Prerequisite: Charlemos, Adelante, El Quinto, 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.

Hispanic Films and Literature

Credit: ½

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.)

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.

German I

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.

AP German Language & Culture (level 5)



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.