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CAREER PATHWAYS INFORMATION 45
Introduction

This guide is designed as a resource to assist students and parents with scheduling a rigorous course of study during the four-year high school experience. It is important that you and your child review the materials and select a course of study that reflects the needs you see in your child’s future. The content of this guide may vary from year to year as content of courses are continually evaluated.

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 following planning opportunities provided by the Grafton High School Counseling Department.

- Academic & Career Plan development and yearly update
- Individual student meetings with School Counselor
- Career Unit (9th, 10th, 11th grades)
- Yearly grade specific evening meetings with parents

Course selections are considered a firm commitment by students and will be altered only by the following procedures.

- Any core credit schedule changes desired by a student following the parent approval of the following year course selection sheet will require written parental permission.
- First semester changes should be made prior to the start of the semester and require a parental note and/or conference with student’s counselor. The only exception is a schedule adjustment due to a failure.
- Second semester changes should be made prior to the start of the second semester and require a parental note and/or conference with the student's counselor. The only exception is a schedule adjustment due to a failure.
- Changes due to course conflicts (two courses requested meeting at the same time) will be made as soon as possible through a counselor-student conference.
- All changes are subject to available space in the course desired.

As the faculty and staff of a comprehensive high school, we will provide opportunities to all students giving them the skills needed to better themselves and society.
Graduation Requirements

Required: 22 Credits

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* = Social Studies includes: 1 credit of American Government and 1 credit of U.S. History
Science includes: 1 credit of Biology

The Course Description Book is available on the GHS website:

www.grafton.k12.wi.us

Grafton High School / Counseling / Course Description Book
### CLASS LOAD

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

1. Seniors under a Work Study Program
2. Students enrolled in an Apprenticeship Program
3. Those students with Special Education needs
4. Students identified as “At-Risk”

Students may carry an overload (7 classes) if it is in their best interest to have one extra class. An overload class may be dropped without penalty through the ninth week of the semester.

### GRADUATION PARTICIPATION

Any student within one credit of meeting graduation requirements may participate in Grafton High School’s graduation ceremony, but will not receive a diploma until all necessary credits are earned. The administration and counselors will assist any concerned student to make up requirement deficiencies.

### EARLY GRADUATION

1. A student may graduate after seven semesters by earning a minimum of 22 total credits, earn all 13 required course credits, and receive the permission of the Principal before the end of the 15th school day of the fall semester.
2. A student may graduate after three years of high school by earning 22 credits, earn all 13 required course credits, and receive the permission of the Board of Education prior to December 31 of the year prior to the completion of the sixth semester.

### CREDIT DEFICIENCIES

Students who are deficient of credits may get approval forms from the school counseling office. The following methods are available for making up deficiencies.

1. Grafton High School Academic Academy (Summer School)
2. Ozaukee County Alternative School (OCHS) – variety of sessions and classes
3. Alternative Programming – (ie: online, MATC night classes, etc.)

### TEACHER AID / INDEPENDENT STUDY

TEACHER AID – open to junior and senior students who aid the teacher at the elementary and secondary levels in classroom and classroom related activities.

INDEPENDENT STUDY – open to junior and senior students who wish to do advanced study in an area which they have exhausted the regular program offerings.

Teacher Aid and Independent Study courses are graded on a “Pass/Fail” basis.
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. It will give students the chance to sharpen their academic skills, allowing them to enter college with confidence. Grafton High School offers the following AP courses:

- AP Art History
- AP Computer Science A
- AP Music Theory
- AP Art Studio
- AP Computer Science Principles
- AP Physics I
- AP Biology
- AP English Language & Comp
- AP Probability and Statistics
- AP Calculus AB
- AP English Literature & Comp
- AP Psychology
- AP Calculus BC
- AP Environmental Science
- AP Spanish Lang (Sigamos)
- AP Biology
- AP English Language & Comp
- AP Psychology
- AP Calculus AB
- AP English Literature & Comp
- AP Psychology
- AP Calculus BC
- AP Environmental Science
- AP Spanish Lang (Sigamos)
- AP Biology
- AP English Language & Comp
- AP Psychology
- AP Calculus AB
- AP English Literature & Comp
- AP Psychology
- AP Calculus BC
- AP Environmental Science
- AP Spanish Lang (Sigamos)
- AP Chemistry
- AP Macro & Micro Economics
- AP U.S. History

These courses have been designated to meet the needs of students who have typically tested at or above the 90th percentile on standardized testing and have teacher recommendation. Options are provided for students in grades 9 through 11 in Communication Arts. Students in Math, Science & World Language are offered advanced course placement based on performance.

Students may earn a Global Education Achievement Certificate along with their diploma by taking a district approved clustering of courses. To qualify for this certification, students must take 4 credits of world language in high school, earning a grade of B or better; additional 4 credits from courses that have a global emphasis (see list below); participate in service or international extracurricular activities and provide community service with a global emphasis.

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

- Ancient History
- Art Exploration
- Drawing 1
- Painting 1
- AP Art History
- Camerata
- Environmental Science
- Photography 1 & 2
- AP Environmental Science
- Chorale
- Geography
- Revolutions
- AP Macro/Micro Econ
- Concert Band
- International Business
- World Issues
- AP Music Theory
- Concert Choir
- Medieval History
- World Lit/Comp

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

In addition, students are required to complete 8 reflections on international/cultural media (books, movies, lectures, art, and literature) and 20 hours of community service with a global connection or focus. Please see your World Language instructor if you have any questions.

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.

FINANCE YOUTH APPRENTICESHIP
Students who elect and are approved for this two-year apprenticeship will be required to complete the four core financial services curriculum modules. The curriculum is not job specific. It is designed to present a broad industry overview with a focus on competencies required in banking, credit union, and saving and loan institutions. It defines skill levels the student must master through combined classroom and work based instruction. Instructional materials are drawn from the American Institute of Banking, Institute of Financial Education, and the Credit Union National Association. Career Cluster: Finance

NURSING ASSISTANT YOUTH APPRENTICESHIP
This apprenticeship program is a one-year program open to students at the beginning of their junior or senior year. Students will master the skills necessary to earn a Certified Nursing Assistant (CNA) registration. Students will attend special classes taught at St. Mary’s Hospital or at M.A.T.C. as part of the apprenticeship program. Students will be introduced to all areas of the health field preparing them for careers as RNs, LPNs, Medical Assistants, Physical Therapists, Occupational Therapists, and other medical professions. Career Cluster: Health Science

MANUFACTURING INDUSTRY YOUTH APPRENTICESHIP
This apprenticeship program is a one or two-year program open to students at the beginning of their junior year. Students will attend one class each semester of the four-semester apprenticeship. The classes will be taught at one of the participating high schools. Students will be introduced to all aspects of the manufacturing industry. You will develop skills or understand the process in such areas as computer aid drafting, metal cutting operations, metal stamping, plastic processes, die casting, and preventive maintenance. Career Cluster: Manufacturing

DRAFTING & DESIGN: PRINCIPLES OF ENGINEERING YOUTH APPRENTICESHIP
This apprenticeship program is a two-year program open to students at the beginning of their junior year. Students will explore engineering history, practice and concepts. Students will solve spatial problems involving geometry. They will understand mechanical, electrical, plumbing, structural and architectural/civil engineering principles and also apply mathematical and scientific principles to technical problems. The following will also be introduced: drawing techniques, skills in linework, instrument use and drawing layout, use of Computer Aided Drafting, application of geometric construction and principles of drafting to CAD concepts, multi-view orthographic projection drawings, dimensioned and annotated. Career Cluster: Architecture and Construction
AUTOMOTIVE TECHNICIAN YOUTH APPRENTICESHIP
This is a one or two-year program that students may apply for and interview for at the end of sophomore year. On the job work experience will start promptly at the beginning of the junior year. Students must be enrolled in Auto Service in either the tenth grade or first semester of their junior year, Auto Diagnosis for second semester junior year, Systems Repair for first semester senior year and Advanced Auto Tech for second semester senior year. Students will be employed by an automotive service business where they will work with a master technician mentor. Students will work on developing skills while on the job and while in class with the goal of completing a competency checklist, which will earn them a Certificate of Occupational Proficiency by the Department of Workforce Development and eligibility for advanced placement in Wisconsin Technical College automotive programs. Career Cluster: Transportation, Distribution and Logistics

COMPUTER/INFORMATION TECHNOLOGY YOUTH APPRENTICESHIP
This apprenticeship program is a one-year program open to students at the beginning of their junior or senior year. Students need to have marketable computer skills to be eligible for this program. Students will be exposed to many software and hardware skills which may include the following, depending on the worksite: database and spreadsheet applications, e-mail, hardware installation and configuration, Internet, network technologies, presentation software, programming, software installation and configuration, Windows environment, word processing, web design and maintenance. Career Cluster: Information Technology

For more information, please check with your GHS School Counselor or contact John Higgins, Ozaukee Youth Apprenticeship Coordinator at: 262-268-6074 or john.higgins@pwssd.k12.wi.us

A complete description of the Apprenticeship areas can be found at: http://www.pwssd.k12.wi.us/ozaukeeyouthapprenticeship

WORK-BASED LEARNING

The Work-Based Learning Program is divided into two major areas: Youth Apprenticeship Program and Work Study. Students must meet the prerequisites set for these programs in order to become enrolled. Please see Mr. Moore, Associate Principal or your school counselor for more information.
### COURSES AVAILABLE

#### 9th Grade

- Art Exploration *
- AP Art History
- Drawing I *, Painting I *
- Ceramics I *, Art Metals I *
- Photography I *
- Graphic Design I *
- Keyboarding & Google Docs *
- Computer Applications *
- Desktop Publishing *
- Multimedia *
- Game and Mobile App Design *
- Web Design *
- R-Literature & Composition 9

#### 10th Grade

- Art Exploration *
- AP Art History
- Drawing I, Drawing II, Drawing III *
- Painting I, Painting II, Painting III *
- Ceramics I, Ceramics II, Ceramics III *
- Art Metals I, Art Metals II, Art Metals III *
- Photography I, Photography II *
- Graphic Design I, Graphic Design II *
- Exploration of 2-D & 3-D Media *
- Keyboarding & Google Docs *
- Computer Applications *
- Desktop Publishing *
- Multimedia *
- Game and Mobile App Design *
- Web Design *
- Business Communication *
- International Business *
- Business and Personal Law *
- Personal Finance
- Accounting
- Business Enterprise-Advertising or Sales *
- Sports & Entertainment Management *
- R-American Literature & Composition
- Professional Writing
- Computer Science I
- AP Computer Science A
- AP Computer Science Principles
- R-PE: Individual Sports* or Team Sports*
  - Personal Fitness 1 & 2 *
  - Strength Training 1 & 2 *
- R-U.S. History or AP U.S. History

### 9th Grade Courses

- Computer Science I
- FCS Survey *
- R- Algebra or Geometry
- Concert Band
- Jazz Ensemble
- Chorale
- R- Physical Education 9 *
- R- Health *
- R- Biology
- PLTW: Principles of Biomedical Sciences
- R- American Government
- Technology & Engineering 9
- Spanish I & II or German I & II

### 10th Grade Courses

- Food Concepts * and Culinary Arts *
- Food Science *
- Fashion & Fabrics I & II *
- Textile Arts *
- Housing & Interior Design *
- Introduction to Health Occupations *
- Algebra, Geometry, Advanced Algebra
- Concepts in Algebra/Geometry
- Concert Band and Symphonic Band
- Jazz Ensemble
- Chorale, Concert Choir, Camerata
- Fundamentals in Theatre *
- Biology
- Chemistry or Advanced Chemistry
- PLTW: Principles of Biomedical Sciences
- PLTW: Human Body Systems
- Geology and Earth Systems *
- Space Sciences *
- Zoology/Botany *
- Principles of Engineering
- Intro to Engineering *
- Air-Cooled Engine Technology *
- Auto Service *
- Metal Forming *
- Machine Tool Tech & Adv Machine Tool *
- Architectural Design 1 & 2 *
- Mechanical Design 1 & 2 *
- Welding Technology 1 & 2 *
- Wood Machine Processes 1 & 2 *
- Spanish I or II and German I or II or III
- Adelante *, El Quinto *, Charlemos *
11th Grade

Art Exploration *
AP Art History
Drawing I, Drawing II, Drawing III *
Painting I, Painting II, Painting III *
Ceramics I, Ceramics II, Ceramics III *
Art Metals I, Art Metals II, Art Metals III *
Photography I, Photography II *
Graphic Design I, Graphic Design II *
Exploration of 2-Dimensional Media *
Exploration of 3-Dimensional Media *
AP Art Studio *
Keyboarding & Google Docs *
Computer Applications *
Desktop Publishing *
Multimedia *
Game and Mobile App Design *
Web Design *
Business Communication *
International Business *
Business and Personal Law *
Personal Finance
Accounting
Advanced Accounting
Business Enterprise-Advertising *
Business Enterprise-Sales *
Sports & Entertainment Management *
R-World Literature & Composition

or AP Language & Composition
Communications *
Creative Writing *
Literature as Social Reflection *
Contemporary Literature *
Foundations of College Writing *
Professional Writing
Writing for Publication
Computer Science I
AP Computer Science A
AP Computer Science Principles
R-PE: Individual Sports * or Team Sports *
Personal Fitness 1 & 2 *
Strength Training 1 & 2 *
Food Concepts *
Culinary Arts *
Food Science *
Fashion & Fabrics I & II *
Housing & Interior Design *
Independent Living *
Housing & Interior Design *
Introduction to Health Occupations *
Child Development I & II *
Algebra
Concepts in Algebra/Geometry
Principles of Geometry
Geometry
Advanced Algebra
Functions, Statistics & Trigonometry
Pre-Calculus
AP Probability & Statistics
AP Calculus AB
AP Calculus BC
Concert Band and Symphonic Band
Jazz Ensemble
Chorale
Concert Choir
Camerata
Music Theory *
AP Music Theory *
Fundamentals of Theatre *
Chemistry or Accelerated Chemistry
PLTW: Principles of Biomedical Sci
PLTW: Human Body Systems
PLTW: Medical Intervention
PLTW: Biomedical Innovations
Geology and Earth Systems *
Space Sciences *
Zoology/Botany *
Environmental Science *
Physics
AP Biology
AP Chemistry
AP Environmental Science
AP Physics I

Social Studies, Tech/Engineering,
and World Language Courses
Continued on the next page
COURSES AVAILABLE

11th Grade – continued

- Intro to Engineering *
- Principles of Engineering
- Auto Service *
- Air-Cooled Engine Technology *
- Auto Diagnosis *
- Machine Tool Technology *
- Advanced Machine Tool Technology *
- Metal Forming *
- Welding Technology 1 & 2 *
- Mechanical Design 1 & 2 *
- Architectural Design 1 & 2 *
- Residential Construction 1 & 2 *
- Wood Machine Processes 1 & 2 *
- Ind. Seminar-Cabinetmaking *
- Ind. Seminar-Mech. & Arch. Design *

- German I, II, III, IV, V
- Spanish I or II
- Adelante *
- El Quinto *
- Charlemos *
- Latin American Studies *
- Surprising Spain *
- AP Spanish Language (Sigamos) *
- Sociology *
- Geography *
- Ancient History *
- Medieval History *
- Revolutions *
- American Issues *
- Contemporary World Issues *
- AP Psychology
- AP Macro and Micro Economics *

12th Grade

The following courses are available to seniors as well as those listed under the 11th grade.

- AP English Literature and Composition
- Essentials of College Writing *
- Physical Education 12 *
- Auto Systems Repair #
- Advanced Auto Tech #
- Vocational Metals
- Independent Seminar-Construction
- Hispanic Films and Literature *

R = Required Course
* = One Semester Course
# = One Semester/2 hours per day
ART DEPARTMENT

Art Exploration
Credit: ½
Level: 9, 10, 11, 12
Fees: $6.50 sketchbook

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 tool box of concepts, skills and techniques that will continue to grow as applied to visual communication and problem solving for future art courses.

Note: This class is a prerequisite for most other art courses at GHS.

Drawing I
Credit: ½
Level: 9, 10, 11, 12
Prerequisite: Art Exploration (9 & 10 only)
Fees: $6.50 sketchbook

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 observational and drawing skills.

Drawing II
Credit: ½
Level: 10, 11, 12
Prerequisite: Drawing I
Fees: $6.50 sketchbook

Study will focus on drawing the human form while exploring new styles of drawing. Student 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.

Drawing III
Credit: ½
Level: 10, 11, 12
Prerequisite: Drawing II
Fees: $6.50 sketchbook

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. Student will develop a masterful understanding of drawing with any media and a strong ability to think creatively and apply ideas in a meaningful way.

Painting I
Credit: ½
Level: 9, 10, 11, 12
Prerequisite: Art Exploration (9 & 10 only)
Fees: $13.00 set of brushes

The student 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.

Painting II
Credit: ½
Level: 10, 11, 12
Prerequisite: Painting I
Fees: $13.00 set of brushes

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.
Painting III
Credit: ½
Level: 10, 11, 12
Prerequisite: Painting II
Fees: $13.00 set of brushes

This course is for a mature student 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 strong ability to think creatively and apply ideas in a meaningful way.

Ceramics I
Credit: ½
Level: 9, 10, 11, 12
Prerequisite: Art Exploration (9 & 10 only)
Fees: $13.00 clay

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: $13.00 clay

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: $13.00 clay

This course is designed 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.

Art Metals I
Credit: ½
Level: 9, 10, 11, 12
Prerequisite: Art Exploration (9 & 10 only)
Fees: $2.40 saw blades

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 Metals I
Fees: $2.40 saw blades

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: $2.40 saw blades

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.

Photography I
Credit: ½
Level: 9, 10, 11, 12
Prerequisite: Art Exploration (9 & 10 only)
Fees: Students must purchase a camera card of 16G or larger, and a card reader. Available at Costco, Best Buy, Walgreens or CVS. 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.

Graphic Design I
Credit: ½
Level: 9, 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 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.

Exploration of 2-Dimensional Media
Credit: ½
Level: 10, 11, 12
Prerequisite: Art Exploration & 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: 10, 11, 12
Prerequisite: Art Exploration & 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 skill set with 3D media.

**AP Art Studio**
Credit: ½
Level: 11, 12
Prerequisite: Art Exploration & minimum of 3 additional art classes. Teacher recommendation required.
Fees: AP test (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 self-motivation and a level of dedication beyond that of previous art classes. AP Art Studio 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.

NOTE: All GHS art courses will expose students to new artists and historical references.

**AP Art History**
Credit: 1
Level: 9, 10, 11, 12
Fees: AP test (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.
BUSINESS & INFORMATION TECHNOLOGY

Web Design
Credit: ½
Level: 9, 10, 11, 12

In Web Design, you will learn how to create and maintain effective web sites as you build web pages from the coding of HTML. Professional design software, Adobe Dreamweaver, will also be utilized to help maintain and manage web pages. You will apply design principles that affect web page construction.

Game and Mobile App Design
Credit: ½
Level: 9, 10, 11, 12

Game and Mobile App Design is an introductory course to game and mobile app design and development that will engage you in project-based learning. You will build your games in Construct 2 and publish to a variety of platforms like Android, iOS, Windows, Mac, and the Web. Mobile apps will be built using App Inventor2, a cloud-based tool, on an Android platform which is used in smart phones, tablets, and other personal electronics.

Multimedia
Credit: ½
Level: 9, 10, 11, 12

Multimedia 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 multimedia such as sound, animation, video, text, and graphics will be explored. A variety of software authoring programs and multimedia management issues will be discussed and investigated through hands-on and group learning approaches. You will have opportunities to enhance your ability to communicate with clarity and precision in visual and oral form.

Computer Applications
MATC Transcribed Course COMPSW-106 (3 credits)
Credit: ½
Level: 9, 10, 11, 12

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, and PowerPoint. You will have the opportunity to become certified in the MS Office applications. These certifications will give you added value in a course that will be valuable for college and future work.

Keyboarding and Google Docs
Credit: ½
Level: 9, 10, 11, 12

This course is designed to help you develop, enhance, and apply touch keyboarding skills to produce a variety of personal and business documents. Emphasis is on the daily use of a computer to develop skills and apply these skills to the production of business correspondence. The content, which includes realistic tasks related to business occupations, prepares students for careers in business as well as postsecondary education.

Desktop Publishing
Credit: ½
Level: 9, 10, 11, 12

Do you like working with technology and computers to produce documents such as magazines, business logos, client advertisement, business cards, calendars, labels, and collages? Desktop Publishing might be for you! Digital cameras, scanners, business graphics, and desktop publishing software are utilized in this class. You will create, design, illustrate, edit/revise, and print a variety of publications. Improved productivity of electronically produced newsletters, flyers, brochures, reports, advertising materials, and other publications is emphasized. Proofreading, document composition, and communication competencies are essential elements.
Personal Finance

Math Credit: This course may be used as the 3rd math credit for graduation.

Credit: 1
Level: 10, 11, 12

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). The Internet and other electronic sources are integrated throughout the course as an excellent resource for financial information. Class members will participate in The Wisconsin Economics Stock Market Game and the H&R Block Budget Challenge, online programs that provide rigorous financial competitions state and nation-wide, respectively.

Accounting

Math Credit: This course may be used as the 3rd math credit for graduation.

MATC Transcripted Course ACCTG102 (3 credits)

Credit: 1
Level: 10, 11, 12
Fees: $48.00 online workbooks & practice sets

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.

Advanced Accounting

MATC Transcripted Course ACCTG111 (4 credits)

Credit: 1
Level: 11, 12
Fees: $48.00 online workbooks & practice sets

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.

Sports & Entertainment Management

Credit: ½
Level: 10, 11, 12

This course is for students interested in learning how the sports and entertainment industries implement marketing strategies to promote, sponsor, and operate all 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.

Business Communication

Credit: ½
Level: 10, 11, 12

In this course you will gain a comprehensive view of communication, its scope and importance in business, and the role of communication in establishing a favorable outside-the-firm environment, as well as an effective internal communications program. Competency will be developed in the areas of oral and written communication, interpersonal skills, and the use of current technology to
communicate. You will also develop sensitivity in communicating with a diverse work force (both domestically and globally). Team projects, class/small group discussions, case studies, community-based projects, technology, and business experiences will be included.

**International Business**  
**Credit:** ½  
**Level:** 10, 11, 12

International business and the global economy will be explored in this course. Topics include but are not limited to passports/visas, travel tips, time zones, currency, trade opportunities, negotiating styles, business procedures, cultural tips, advertising, and marketing around the world. Project-based learning activities and projects in this course will be used to strengthen awareness of the value of diversity in the workforce and society. Speakers and videos are an integral part of this course.  

International Business can be applied to the Global Education Achievement Certificate.

**Business and Personal Law**  
**Credit:** ½  
**Level:** 10, 11, 12

This course is designed to develop a knowledge and understanding of the responsibilities, rules, and regulations within the legal system. Court procedures and how law relates to a minor, an adult, and a consumer in everyday life will be reviewed. Possible courthouse field trips, videos, and role-playing situations all play an integral part of this essential course. Business Law students will play a fundamental role in the Shoplifting Prevention Program, educating elementary students about the dangers of shoplifting. Students develop a new respect for the dignity of the individual, the rationale of law, and the necessity for law and order in a civilized society.

**Business Enterprise-Advertising**  
**Credit:** ½  
**Level:** 10, 11, 12

Business Enterprise-Advertising is a course for students to apply creativity and imagination to the business world—advertising campaigns will include print media (magazines, newspapers, billboards, and more!), broadcast media (television, radio, internet), and specialty media. In addition, students will have the opportunity to apply these advertising skills to real life.

**Business Enterprise-Sales**  
**Credit:** ½  
**Level:** 10, 11, 12

Enter the world of marketing—the most dynamic and fastest growing area of business where more than 1 in 3 Americans are employed. This course introduces students to the world of business by teaching the fundamentals of marketing. All business revolves around sales. Realize first-hand what it takes to be successful by learning marketing techniques such as retail sales, professional sales, pricing, human relations, and communications.
Students will use realistic fiction, creative nonfiction, poetry, and drama as vehicles for developing reading skills over the course of freshman year. Students will also work to improve their usage skills, analytical abilities, and creative abilities through the writing of paragraphs, expository essays and presenting oral projects based on the study of literature. Freshman year is designed to be a survey of the world of literature, with multiple opportunities to build grammar and writing skills, necessary research skills, various literary techniques, vocabulary, and characteristics of the major genre.

American Literature & Composition
Credit: 1
Level: 10

This course will introduce the student to the themes and experiences which have become part of the American identity; to show the dependence of American art and literature on American history. Students will continue building on literary analysis, vocabulary, and writing skills introduced in previous classes; to expose students to intellectual and emotional experiences which will develop their critical thinking skills.

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 and a writing sample
Fulfills 11/12 college prep writing requirement

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 and a writing sample
Fulfills 11/12 college prep writing requirement

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 argument, 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.

Communications
Credit: ½
Level: 11, 12
Prerequisite: teacher recommendation

Students will engage in speaking and listening activities: intrapersonal, interpersonal, group,
and public communication. Throughout the course, students will learn and practice listening, speaking, 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 multiple, tangible products that prove mastery over a range of professional communication skills.

**Contemporary Literature**
Credit: ½  
Level: 11, 12  
Prerequisite: teacher recommendation  
This course is for the non-college bound student.

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

**Creative Writing**
Credit: ½  
Level: 11, 12  
Prerequisite: teacher recommendation

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.

**Essentials of College Writing**
Credit: ½  
Level: 12  
Prerequisite: teacher recommendation  
Fulfills 11/12 college prep writing requirement  

Emphasis will be on expository writing, using critical thinking skills in paragraph and essay writing. The student will be challenged to demonstrate his/her writing skills using more complex content material and sophisticated writing styles in order to refine the forms of expository expression for the college-bound student.

**Foundations of College Writing**
Credit: ½  
Level: 12  
Prerequisite: teacher recommendation

Emphasis will be on expository writing, using critical thinking skills in paragraph and essay writing. Students will continue to practice and understand the writing skills taught during the first three years of high school. Argument techniques, the revision process, and research-based writing experiences will be honed. Individual improvement will be stressed.

**Literature as Social Reflection**
Credit: ½  
Level: 11, 12  
Prerequisite: teacher recommendation

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.
**Professional Writing**
Credit: 1
Level: 10, 11, 12
Prerequisite: teacher recommendation
This course does fulfill required English credit requirements and may be taken for one or two semesters.

The course focuses on the development of published, non-fiction journalistic works for the yearbook and the online school magazine The Black Hawk Times. 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.

**Tech Communication & Composition**
Credit: ½
Level: 12
Prerequisite: teacher recommendation
This course is for the non-college bound student.

Since the course is designed for students who plan to attend technical school or to seek immediate employment, life skills are emphasized. 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.

**Writing for Publication**
Credit: 1
Level: 11, 12
Prerequisite: Professional Writing
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, non-fiction journalistic works for the yearbook and the online school magazine The Black Hawk Times.
**Computer Science 1**

Math Credit: This course may be used as the 3rd math credit for graduation.

Credit: 1  
Level: 9, 10, 11, 12  
Prerequisite: B- or higher in Algebra and concurrent enrollment in Geometry OR have completed a full year of Geometry.

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.

**AP Computer Science Principles**

Credit: 1  
Level: 10, 11, 12  
Prerequisite: Computer Science I or Teacher Approval  
Fees: AP practice book and 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 seven big ideas in the course framework: Creativity, Abstraction, Data and Information, Algorithms, Programming, The Internet, and Global Impact. 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: AP Computer Science Principles or Teacher Approval  
Fees: AP practice book and AP exam (optional)

AP Computer Science A introduces students to the computer programming language of JAVA. The topics covered include Object-Oriented Program Design, Program Implementation, Program Analysis, Standard Algorithms, Standard Data Structures, Computing in Context, and 3 larger scale programs recommended from the College Board (AP). Students will analyze code to find mistakes and output, think creativity to solve real world applications, and construct algorithms to solve a problem.
FAMILY & CONSUMER SCIENCE

FCS Survey
Credit: ½
Level: 9
Fees: $10.00-$15.00 sewing project

Short units will provide hands-on experience and skills in foods, nutrition, finance, childcare, home decorating, and sewing. This course is designed to provide an overview of all areas available in the Family and Consumer Science program.

Culinary Arts
Credit: ½
Level: 10, 11, 12
Fees: $10.00

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, cake decorating, cookies, specialty desserts, and candy making. 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 and decoration.

Food Concepts
Credit: ½
Level: 10, 11, 12
Fees: $10.00

Students will be introduced to basic cooking techniques used in the preparation of food. Cooking labs involve group activities in the organization, preparation, tasting, and evaluation of food. Nutrition, safety and sanitation, basic measurement skills and the principles of food preparation is incorporated into each unit. Units include: Pasta and Rice, Grains, Eggs and Dairy, Soups, Combination Foods, Meat and Poultry.

Food Science
Credit: ½
Level: 10, 11, 12
Prerequisite: Food Concepts or Culinary Arts
Fees: $10.00

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 hands-on experiences that support classroom instruction with practical applications and creative opportunities for product development.

Child Development I
MATC transcripted course (3 college credits)
Credit: ½
Level: 11, 12

This course provides students with an understanding of the physical, social, emotional, and cognitive development of children from birth to age 5. Areas of study include positive guidance techniques, shaken baby syndrome, birth defects, SIDS, and careers in childcare. A lab experience in the form of a preschool is the culminating activity providing an opportunity for the students to plan and implement themed lesson plans. The goal is for students to gain knowledge of children through study 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
MATC transcripted course (3 college credits)
Credit: ½
Level: 11, 12
Prerequisite: Child Development I

Students will continue their study and observations of children with particular emphasis on health and safety, parenting skills, special needs children and the vast area of careers open to those who wish to work with or for children. Students will develop themed
lesson plans for the preschool experience which will include math every day and science. 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 orientations 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: 10, 11, 12  
Fees: $20.00-$30.00 depending on projects chosen and Mount Mary Fashion Show $15.00  

Fashion and Fabrics I is designed for students who have an interest in clothing construction. Students will learn construction principles, read patterns, and use sewing machines properly. Students will start with making pajama pants and then they can choose their next projects using a commercial pattern.

**Fashion and Fabrics II**  
Credit: ½  
Level: 10, 11, 12  
Prerequisite: Fashion and Fabrics I  
Fees: $20.00 to $30.00 depending on projects chosen and Mount Mary Fashion Show $15.00  

This class is a continuation of Fashion and Fabrics I. This course is designed for students who wish to expand their skills in clothing construction. Students should have some experience with basic sewing skills and pattern use.

**Textile Arts**  
Credit: ½  
Level: 10, 11, 12  
Fees: $30.00, depending on projects chosen.

A study of creative arts and crafts to enhance personal and home surroundings and develop talents for leisure time or income production. This class will use different types of textiles to learn rug making, felting, locker hooking, punch needle embroidery, jewelry making, and quilting. Students will determine projects jointly with instructor. The goal is to develop the creativity and personal expression of each student utilizing a variety of art, craft and fabric media and demonstrate the potential of these arts as a source of income as well as personal fulfillment.

**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 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  

A comprehensive course designed to help students explore all aspects of life: personal development, decision-making, relationships, communication and conflict resolution, managing family and dealing with crisis situations and stress. The course prepares the older student for future life responsibilities such as career exploration, budgeting and finance, housing, community service, and how to stretch your dollar in foods and the basics of good nutrition. The goal of this class is to assist young men and women in preparing for future life responsibilities. It provides practical applications to a variety of skills for living on your own. The skills are designed to prepare the older student for future life responsibilities.
Algebra
Credit: 1
Level: 9, 10, 11, 12
Prerequisite: teacher recommendation
Fees: Scientific Calculator (preferably TI-30X IIS)

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, other math related areas.

Concepts in Algebra/Geometry
Credit: 1
Level: 10, 11, 12
Prerequisite: 70% or below in Algebra, Recommendation of previous math teacher
This course is not accepted at most colleges as being included in the 3 required years of math
Fees: Scientific Calculator (preferably TI-30X IIS)

The content of this course covers three areas: review of basic Algebra concepts, additional in-depth coverage of more advanced topics from Algebra, and an introduction to plane Geometry. The purpose of this class is to improve a student’s understanding of mathematical concepts prior to enrollment in Geometry.

Geometry
Credit: 1
Level: 9, 10, 11, 12
Prerequisite: 70% or higher in Algebra or 70% or higher in Concepts in Algebra/Geometry and consent of previous instructor
Fees: Ruler and protractor, Scientific Calculator (preferably TI-30X IIS)

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.

Principles of Geometry
Credit: 1
Level: 11, 12
Prerequisite: Concepts in Algebra/Geometry
Fees: Ruler and protractor, Scientific Calculator (preferably TI-30X IIS)

Principles of Geometry deals with a basic understanding of shapes, reading and writing proofs, and the applications and use for postulates and theorems. Items we will focus on this year 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. With completion of this course a student will enroll into Geometry the following year.

Advanced Algebra
Credit: 1
Level: 9, 10, 11, 12
Prerequisite: Algebra and consent of previous instructor
Fee: Graphing calculator (TI-83 or TI-84, preferably not a Casio model)

This course begins with a review of linear equations (solving and graphing) and then transitions to higher degree equations such as parabolas and hyperbolas. Some advanced topics are: solving systems of equations by several methods, functions and their inverse, radicals, complex numbers, and conic sections (parabolas, ellipses, and hyperbolas). This course allows the student to broaden algebraic principles developed in Algebra and prepares the student for advanced and college preparatory classes.

Functions, Statistics & Trigonometry
Credit: 1
Level: 11, 12
Prerequisite: 75% or higher in Advanced Algebra and consent of previous instructor
Fee: Graphing calculator (TI-83 or TI-84, preferably not a Casio model)
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.

**AP Probability and Statistics**
Credit: 1
Level: 11, 12
Prerequisite: completion of Pre-Calculus and consent of previous instructor
Fee: Graphing calculator (TI-83 or TI-84, preferably not a Casio Model) and AP test (optional)

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.

**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.
A graphing calculator is required (TI-83 or TI-84, preferably not a Casio model) AP test fee (optional)

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.

**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.
A graphing calculator is required (TI-83 or TI-84, preferably not a Casio model) AP test fee (optional)

This course is designed to work with functions and understand the connections geometrically, numerically, analytically, and verbally. Topics include limits, derivatives and integrals. Upon completion, students will be prepared to perform adequately on the AP exam in May.

**Pre-Calculus**
Credit: 1
Level: 10, 11, 12
Prerequisite: Completion of Advanced Algebra and consent of previous instructor
Fee: Graphing calculator (TI-83 or TI-84, preferably not a Casio model)

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.

**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.
A graphing calculator is required (TI-83 or TI-84, preferably not a Casio model) AP test fee (optional)

This course is designed to work with functions and understand the connections geometrically, numerically, analytically, and verbally. Topics include limits, derivatives and integrals. Upon completion, students will be prepared to perform adequately on the AP exam in May.
**Concert Band**
Credit: 1  
Level: 9, 10, 11, 12

Concert Band is open to band students that are freshman and older. Students who have some experience in music but not band specifically or who have not been in band for a while are also welcome but should plan to schedule a conference with the instructor to schedule a few private lessons before the first band class. Concert Band is a year-long course which focuses on the development of music fundamentals and concepts of musicianship. Students perform in concerts, solo and ensemble activities, music festivals, assemblies, parades, at athletic events, musicals and special events. In addition, the band will be offered the opportunity to travel and perform in other parts of the country (or internationally!) about every other year participating in various festivals, contests, and exploring new cultures and performance opportunities. Each student will take regular private and/or small group lessons with the band director offered during Black Hawk Time.

**Symphonic Band**
Credit: 1  
Level: 10, 11, 12

Sophomores and older are allowed into our Symphonic Band by audition. This is a year-long course which builds on the skills and musicianship developed in Concert Band. Students perform in concerts, solo and ensemble activities, chamber groups, music festivals, assemblies, parades, athletic events, musicals and special events. In addition, the band will be offered the opportunity to travel and perform in other parts of the country (or internationally!) about every other year participating in various festivals, contests, and exploring new cultures and performance opportunities. It is expected that each student will continue his/her individual progress by participating in a regular private and/or school small group lesson program offered during Black Hawk Time throughout the year. The music literature studied in this advanced ensemble demands a high level of technical skill, musicianship and leadership from every member.

**Jazz Ensemble**
Credit: ½ for the year  
Level: 9, 10, 11, 12  
Prerequisite: Audition  
Note: This course will be scheduled during zero hour from 6:40-7:20 a.m., 3 mornings per week

Jazz Ensemble provides instruction in the idiom of jazz which includes, but is not limited to the study of: the blues, salsa, mambo, tango, bossa nova, bebop, hard bop, rhythm and blues, funk, funk-rock, ECM, the shuffle, big band dance, ballads, and swing. The goal is to give students an opportunity to study and perform high quality jazz ensemble literature and to teach students the basics of improvisation within the jazz idiom. The Jazz Ensemble employs traditional instrumentation including: trumpets, trombones, saxophones, and rhythm section (drums, aux/vibes, bass, guitar and piano).

**Chorale**
Credit: 1  
Level: 9, 10, 11, 12

Chorale is for all freshman singers in addition to any students who have never sung in a choir before. Introduction to correct vocal techniques, sight reading, and basic music theory are covered, in addition to singing a wide variety of music. Students perform 4 required concerts a year (Fall, Winter, Spring and Chili Day). Students also have the opportunity to participate in the Wisconsin School Music Association Solo/Ensemble music festival in March.

**Concert Choir**
Credit: 1  
Level: 10, 11, 12  
Prerequisite: Chorale and/or conference with choral director

Concert choir is for advanced students who want to experience more challenging music.
Students perform 4 required concerts a year (Fall, Winter, Spring and Chili Day). Students also have the opportunity to participate in the Wisconsin School Music Association Solo/Ensemble music festival in March and audition for the state honor’s choir. Every three years students travel to other parts of the country participating in various festivals.

**Camerata**  
Credit: 1  
Level: 10, 11, 12  
Prerequisite: Conference with choral director

Camerata is for advanced students who want to explore the choral literature for women’s voices. Students perform 4 required concerts a year (Fall, Winter, Spring and Chili Day). Students also have the opportunity to participate in the Wisconsin School Music Association Solo/Ensemble music festival in March and audition for the state honor’s choir. Every three years students travel to other parts of the country participating in various festivals.

**Music Theory**  
Credit: ½  
Level: 11, 12

Students must also be enrolled in band or choir. In this class we will study the basics of music theory and notation. Activities will include written and aural examples of concepts. Content includes notation (pitch & rhythm), scales, keys, intervals, chords, melody, texture, and form. 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.

**AP Music Theory**  
Credit: ½  
Level: 11, 12  
Prerequisite: Music Theory  
Fees: AP exam (optional)

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

**Fundamentals of Theatre**  
Credit: ½  
Level: 11, 12

Designed for students who have an interest in theatre. This class will provide an introduction to reading and writing scripts, directing, acting and theatre technology. Class members will be given hands on experience with many aspects of theatre tech including lights, sound, hair, makeup, set design and stage management. Students will also receive experience in writing, performing and directing scenes. Students will develop a well-rounded theatrical experience that will instill an appreciation for the theatre arts as well as prepare them for participation in theatrical experiences.
PHYSICAL EDUCATION

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.

Health
Credit: ½
Level: 9

This course is designed to have individuals successfully develop, establish, and achieve positive life style 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.

Individual Sports and 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.

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.

Personal Fitness 1 & 2
Credit: ½
Level: 10, 11, 12

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/Conditioning 1 & 2
Credit: ½
Level: 10, 11, 12

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.

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. Examples of some units students could choose: tennis, table tennis, badminton, basketball, floor hockey, curling, bowling, aquatic team games, volleyball, triball, softball and golf.

NOTE: There are two additional Phy Ed options Summer PE and WIAA Waiver – See your counselor or PE teacher for more information
SCIENCE

Biology
Credit: 1
Level: 9, 10, 11, 12
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. Through an inquiry-based approach, students will learn to apply the concepts central to biology, while gathering and interpreting data during laboratory experiments.

Chemistry
Credit: 1
Level: 10, 11, 12
Prerequisite: Students should have earned an A or B in Algebra and have passed Biology or obtained consensus approval by the Science Department Staff
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-intense course.

Accelerated Chemistry
Credit: 1
Level: 10, 11, 12
Prerequisite: Students should have successful completion of Geometry with a B or better and have passed Biology or received consensus approval by the Science Department Staff.
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.

Zoology/Botany
Credit: ½
Level: 10, 11, 12
Prerequisite: Minimum grade of B- in Biology
Fees: $25 (dissection materials)

Zoology/Botany will cover diversity of life, with an emphasis on zoology and botany. It will involve hands-on dissection of multiple organisms for the purpose of comparative studies of anatomical systems. Additionally, there may be at least one field trip to the Milwaukee County Zoo or other suitable entity and field study of plant diversity. Although the focus will be on the plant and animal kingdoms, fungi and protists may also be covered.

PLTW: Principles of Biomedical Science
Credit: 1
Level: 9, 10, 11, 12
Prerequisite: Biology (or concurrent enrollment)
Fees: $25 for goggles, gloves and lab notebook

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 goggles, gloves, and lab notebook
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 and AP Biology  
Fees: $25 for goggles, gloves, and lab notebook

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: Successful completion of Biology, Chemistry and 2 additional PLTW courses. Recommended completion of AP Biology and/or AP Chemistry  
Fees: $25 for goggles, gloves, and lab notebook

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 affiliate 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. 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.  
PLTW courses qualify as part of the PLTW/AP Recognition Award Program

**Environmental Science**
Credit: ½  
Level: 10, 11, 12

Units are presented that include studies in the following areas: 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. Introduce concepts involving environmental science that go beyond biology, showing the interrelation between the student and the environment.

**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.

**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.

**Physics**
Credit: 1
Level: 10, 11, 12
Prerequisite: Advanced Algebra (or concurrent enrollment in Advanced Algebra)

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.

**AP Biology**
Credit: 1
Level: 11, 12
Prerequisite: Biology and Chemistry; consensus approval by the Science Department staff
Fee: 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
Level: 11, 12
Prerequisite: Chemistry and consensus approval by the Science Department Staff. Physics recommended
Fees: 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. This course qualifies as part of the PLTW/AP Recognition Award Program.
AP Environmental Science
Credit: 1
Level: 11, 12
Prerequisite: Chemistry (or concurrent enrollment) and consensus approval by the Science Department Staff
Fees: 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. This course qualifies as part of the PLTW/AP Recognition Award Program.

AP Physics I
Credit: 1
Level: 11, 12
Prerequisite: Chemistry and Advanced Math (or concurrent enrollment) and consensus approval by the Science Department Staff
Fees: 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. This course qualifies as part of the PLTW/AP Recognition Award Program.

ADDITIONAL SCIENCE CREDIT OPTIONS:
The following courses may be used as the 3rd science credit for graduation

Principles of Engineering – Please see the Tech & Engineering section for the course description

(Pending approval) Food Science – Please see the Family & Consumer Science section for the course description
SOCIAL STUDIES

American Government
Credit: 1
Level: 9
Note: This is a required course for graduation

The first semester 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. Second semester focuses on the Federal Judiciary, rights and responsibilities as a citizen. The purpose of this class is to acquaint the student with an understanding of the institutions of democracy found in the federal, state, and local governments and the organizations of the Executive, Legislative, and Judicial branches of each level of government in our society, and how they work in relationship to the individual citizen.

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.

AP U.S. History
Credit: 1
Level: 10
Prerequisite: An A in American Government, 3.33 overall GPA, and teacher recommendation
Fees: 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.

Note: There will be an additional expectation of summer reading and an assessment on the first week of class. Students who enroll in AP U.S. History will have up to 4 weeks to drop the class. Students will not be allowed to drop after the 4 week probationary period.

Sociology
Credit: ½
Level: 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 peoples’ points of view. Students will learn to listen to controversial issues, gather data, and factually not emotionally respond to issues.
**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. This course is recommended for the college-bound student.

**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 work often times in small groups and use the library to 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: 11, 12  

This course will cover the Renaissance, Reformation, Scientific Revolution, French Revolution, Age of Discovery, World War I/Russian Revolution, the Chinese Revolution, and the Cuban Revolution. Students will learn to recognize the different stages of revolutions and gain an understanding of the development of people and society around the globe. This course will focus on various notetaking and study skills, classroom discussions, research, and essay writing to prepare students for college level courses.

**American Issues**  
Credit: ½  
Level: 11, 12  

A study of the history of political parties, contemporary affairs, foreign policy, ethics in politics, and world affairs and their influences on the U.S.A. today will be an emphasis. The 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.

**Contemporary 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 for conflict in different regions of the world.
Geography
Credit: ½
Level: 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.

A P. Psychology
Credit: 1
Level: 11, 12
Fees: AP exams (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 Economics
Credit: 1
Level: 11, 12
Fees: AP exam (optional)

Advanced Placement Economics is a yearlong course that encompasses microeconomic and macroeconomic topics. The course uses a college text: McConnell and Brue, Economics which is coordinated with the Advanced Placement Instructional Package. 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.

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.
TECHNOLOGY AND ENGINEERING

Safety glasses are required for all Technology & Engineering classes

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.

Introduction to Engineering
Credit: ½
Level: 10, 11, 12
Fees: $10 lab materials

This STEM course is a basic introduction to engineering for all students. Students who complete this course will learn the concepts necessary to develop their ideas into solutions to improve our lives. Exciting hands-on learning activities like data comparison of heart rates, rating consumer products, destruction testing and 3D solid modeling, apply math, science, history and English content from other courses in a STEM experience. This course will provide students interested in engineering a pathway to explore possible engineering careers. This course will also prepare students for Principles of Engineering.

Principles of Engineering
Credit: 1
Level: 10, 11, 12
Fees: $10 lab materials

Note: This course may be used as the 3rd science credit for graduation.

Principles of Engineering is a team-based advanced course providing opportunities for students to use the design process to solve real life problems. Students develop solutions to problems, create 3D models, and construct prototypes to meet the criteria of the customer. This course will provide students interested in an engineering pathway the opportunity to explore possible engineering careers.

Wood Machine Processes I
Credit: ½
Level: 10, 11, 12
Fees: approximately $35 for materials

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 one assigned project and two self-designed projects. Career Pathways in designing, planning, managing, building and maintaining the built environment will be emphasized.

Wood Machine Processes II
Credit: ½
Level: 10, 11, 12
Prerequisite: Wood Machine Processes I
Fees: approximately $35 for materials

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.

Residential Construction I
Credit: ½
Level: 11, 12
Prerequisite: Wood Machine Processes II or senior standing
Fees: $30

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.

**Independent Seminar-Cabinetmaking**
Credit: ½ or 1
Level: 11, 12
Prerequisite: Wood Machines Processes I & II, 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.

**Metal Forming** - 1 semester
Credit: ½
Level: 10, 11, 12
Fees: $15 project fee

This is an entry level course designed to utilize the lathe, mill, CNC milling, and welding areas of the manufacturing lab. Students will apply prior knowledge from academic core curriculum to explore various metalworking processes. Projects will teach students a variety of skills related to the engineering and manufacturing of a finished project. Class projects include: Tic-Tac-Toe game, C-Clamp, Dice, metal punch. Students will explore Career Pathways related to manufacturing, and develop the entry level skills needed to pursue a Youth Apprenticeship at a local manufacturing company.

**Welding Technology 1**

This course is part of a 3 semester articulation agreement with MATC. Upon completion, students can earn up to 7 credits for MATC.
Credit: ½
Level: 10, 11, 12
Fees: $15 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 racecar chassis for a Formula High School Racecar.

**Welding Technology 2**

This course is part of a 3 semester articulation agreement with MATC. Upon completion, students can earn up to 7 credits for MATC.
Credit: ½
Level: 10, 11, 12
Prerequisite: Welding Technology 1
Fees: $15 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.

**Machine Tool Technology**
Credit: ½  
Level: 10, 11, 12  
Fees: $15 project fee

This is an entry level course designed to utilize the lathe and mill areas of the manufacturing lab. Students will use the lathe to complete a machinist hammer project. Students will use Mastercam software to create tool paths used to machine parts on our recently donated Haas CNC mill. Upon completion of the machinist hammer and Mastercam Projects, students will be given the opportunity to construct a simple battlebot frame. This course is integrated with the STEM Academy Engineering Curriculum. It is part of the Grafton High School Engineering Pathway. This course is recommended for all students, especially those looking to explore a career in Engineering. It is recommended students take both Machine Tool Technology and Advanced Machine Tool Technology in one complete school year if possible.

**Advanced Machine Tool Technology**
Credit: ½  
Level: 10, 11, 12  
Prerequisite: Machine Tool Technology or Metal Forming  
Fees: $15 project fee

This is an advanced level course designed to utilize the lathe, CNC mill, surface grinding, and foundry areas of the manufacturing lab. Students will experience real life manufacturing by completing small part orders for local companies. This course is integrated with the STEM Academy Engineering Curriculum. It is part of the Grafton High School Engineering Pathway. This course is recommended for all students, especially those looking to explore a career in Engineering. Students will safely design and manufacture advanced parts using the following equipment: manual lathe, manual mill, Solidworks, Mastercam, Haas Minimill, Torchmate CNC plasma cutter, blue prints, and measurement tools. Capstone project for this course is to take the Battlebot frame designed in Machine Tool and construct a competition ready Battlebot. Students will compete with this Battlebot at the Spring Bots IQ competition. It is recommended students take both Machine Tool Technology and Advanced Machine Tool Technology in one complete school year if possible.

**Vocational Metals**
Credit: ½  
Level: 12  
Prerequisite: Advanced Machine Tool Technology and Welding  
Fees: $40 project fee

This is an advanced level course designed to utilize all areas of the manufacturing lab. Project options for this course will require students to choose one of the following: Formula High School race car or Battlebot. Students will then take prior knowledge gained in GHS machining classes to create/modify advanced parts such as a front independent suspension or Battlebot weapon system. Each student will meet with the instructor prior to the beginning of the school year, and jointly develop an individualized learning plan that the student will follow depending on which scheduling option has been selected.

**Independent Seminar – Welding 3**
This course is part of a 3 semester articulation agreement with MATC. Upon completion, students can earn up to 7 credits for MATC.  
Credit: ¼ 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. Student will finish up course work related to MATC Articulation agreement in welding. Upon completion, student will have earned: 2 MATC credits for blue print reading and 5 MATC credits for GMAW.

**Independent Seminar - Machining**  
Credit: ½ or 1  
Level: 12  
Prerequisite: Advanced Machine Tool or Vocational Metals 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.

**Air-Cooled Engine Technology**  
Credit: ½  
Level: 10, 11, 12  
Fees: $10 lab materials plus any personal engine parts needed

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. This class is taken in preparation for Auto Diagnosis, 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 Diagnosis**  
Credit: ½  
Level: 11, 12  
Prerequisite: Final grades of "C" or better in both Air-Cooled Engine Technology and 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 Systems Repair**  
Credit: 1 (1st semester/2 hours per 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, will do 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.

**Advanced Auto Tech**

Credit: 1 (2nd semester/2 hours per 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

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.

**Mechanical Design 1**

Credit: ½

Level: 10, 11, 12

Fees: $15 for 3D printer materials

Students will utilize the Solidworks 3D modeling software to work towards the goal of becoming a Certified Solidworks Associate by passing the CSWA Exam. This course is integrated with the STEM Academy Engineering Curriculum. The STEM curriculum has various input/output projects that include machinery such as 3D printers, laser cutters, plasma cutters, wood and metal CNC machines. It is part of the Grafton High School Engineering Pathway. This course is recommended for all students, especially those looking to explore a career in Engineering.

**Mechanical Design 2**

Credit: ½

Level: 10, 11, 12

Prerequisite: Mechanical Design 1

Fees: $15 for 3D printer materials

Students will utilize the Solidworks 3D modeling software to work towards the goal of becoming a Certified Solidworks Associate by passing the CSWA Exam. This course is integrated with the STEM Academy Engineering Curriculum. The STEM curriculum has various input/output projects that include machinery such as 3D printers, laser cutters, plasma cutters, wood and metal CNC machines. It is part of the Grafton High School Engineering Pathway. This course is recommended for all students, especially those looking to explore a career in Engineering.
Architectural Design 1
Credit: ½  
Level: 10, 11, 12  
Fees: $5 lab fee

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

Architectural Design 2
Credit: ½  
Level: 10, 11, 12  
Prerequisite: Architectural Design 1  
Fees: $5 lab fee

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

Independent Seminar – Mech Design  
Independent Seminar – Arch Design
Credit: ½ or 1  
Level: 11, 12  
Prerequisite: Architectural Design I and II, Mechanical Design I and II teacher approval  
Fees: Varies depending on projects

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

Applied Interdisciplinary Math
Credit: ¼ per approved Tech/Engineering course  
Level: 10, 11, 12

Applied Interdisciplinary Math (AIM) is a math credit embedded into select Technology and Engineering (T&E) classes. 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. 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:  
Spanish I
Credit: 1
Level: 9, 10, 11, 12
Fees: $15 workbook

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
Fees: $18 workbook

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. The 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
Fees: Workbook from 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.

Adelante
Level 3 course, taken right before or after El Quinto
Credit: ½
Level: 10, 11, 12
Prerequisite: Spanish II
Fees: $10 dictionary

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 recipe chosen.

AP Spanish Language (Sigamos)
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 proficiencies 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.)

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 with a grade of B or better in the last course taken. 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 UW-Green Bay. If students earn an average of B or better, they will earn 3 credits for the UW-Green Bay Spanish 202 course and 11 retroactive credits. Any questions, please see your Spanish teacher and/or school counselor.

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.

**German 5**
Credit: 1  
Level: 12  
Prerequisite: German 4

German 5 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.

**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.
COURSES OF STUDY/CAREER PATHWAYS AND CAREER CLUSTERS

Grafton High School offers guidance and course opportunities to develop awareness of skills for future careers. Utilizing the 16 Career Clusters, students can identify pathways from high school to two-year and four-year colleges or directly into the workforce.

For detailed information regarding Career Pathways, go to Grafton High School website / Counseling / Course Description Book / Career Pathways.

You will find courses recommended for each cluster. Many courses require prerequisites, please refer to the course descriptions to help determine the proper sequencing. The courses are recommendations only and are not intended to direct students away from areas of interest including art, business, music, tech, etc.

For more information about career choices and relevant courses, see your school counselor.