

2022-2023

# **CEDARBURG HIGH SCHOOL**

## Career Planning & Course Guide





January 2022

Dear Students/Parents:

The 2022-2023 *Career Planning and Course Guide* has been designed to help you develop and manage your four-year educational program. A review of this publication will reveal the rigor of our academic programs as well as the diversity of the curricular offerings. Our goal is to provide a variety of options that will allow you to individualize a course of study that meets your specific goals and interests. Serving that purpose, our staff and school have added several new courses over the past few years to maintain modern and relevant courses for our students. The front page of the *Course Guide* highlights the new additions and changes from this year so that families who are familiar with the information can have a single location for changes and improvements.

The CHS *Career Planning and Course Guide* provides in-depth descriptions for all courses and course levels. Please take the time to review this information, reflect on personal goals, and ultimately, make informed decisions that will positively impact your academic progress.

Cedarburg High School staff members are committed to providing an educational climate that will allow each and every student the opportunity to achieve his/her highest potential. We encourage you to thoroughly explore the offerings presented and use this CHS *Career Planning and Course Guide* as a framework for discussions with your families, teachers, and school counselor. Best wishes for a positive and meaningful school year.

Sincerely,

A handwritten signature in black ink that reads "Casey M. Bove".

Casey Bove  
Principal  
Cedarburg High School

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# NEW AND REVISED COURSE OFFERING FOR 2022-2023

Additional courses (highlighted) are now available to fulfill the Grade 11 and Grade 12 English requirement:

<b>Grade 9-11 Required Course Options</b>		
<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>
English 9 Composition/Literature 9 Composition/Literature Pre-AP 9	English 10 Composition/Literature 10 Composition/Literature Pre-AP 10	English 11 Composition/American Literature 11 AP English Language and Composition <b>AP Seminar</b>
<b>Grade 9-11 Elective Course Options</b>		
Acting Fundamentals of Speech Communication* Introduction to Theatre Journalism*		*does not fulfill grade 12 credit if taken in grades 9-11

<b>Grade 12 Course Options</b>			
<b>Group A</b> 1.0 credit <i>Choose one:</i>	<b>Group B</b> All courses fulfill required credit only if taken in Grade 12 0.5 credit <i>Choose two:</i>		
AP English Literature and Composition	Adventure and Survival Nonfiction	British Literature	Creative Writing
<b>AP Research</b>	Film as Literature	✓ <b>Fundamentals of Speech Communication</b> <i>(if taken in Grade 12)</i>	✓ <b>Journalism</b> <i>(if taken in Grade 12)</i>
	Mystery and Suspense	Mythology, Fantasy, and Dystopia	
✓ available for dual credit through CAPP			

<b>Elective Courses NOT available for Required Grade 12 Credit</b>		
Introduction to Theatre	Acting	✓ College Reading

0.5 credit	0.5 credit	0.25 credit ✓available for dual credit through CAPP
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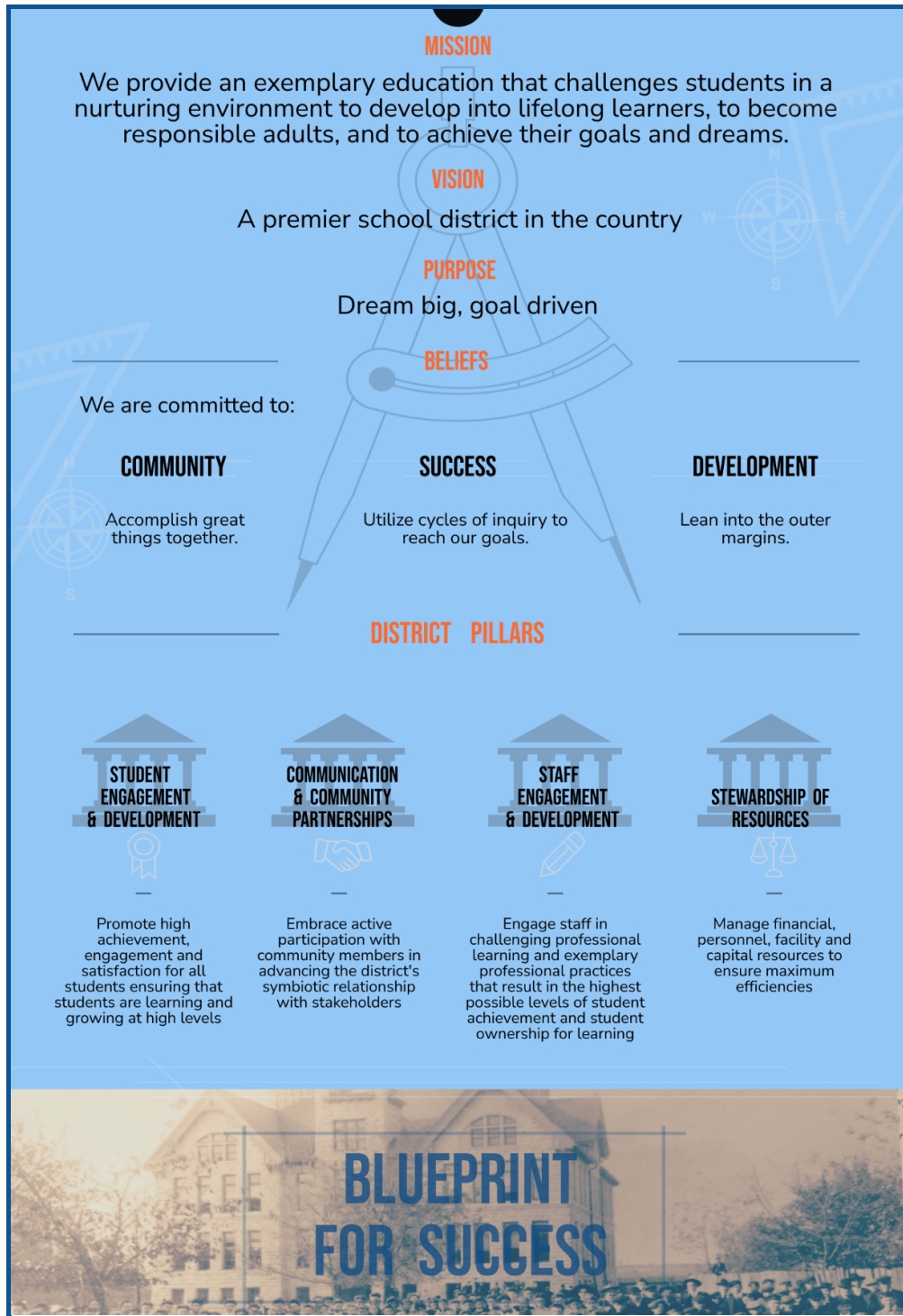
# PURPOSE

The Career Planning and Course Guide is designed to provide students and their parents with information that will assist them in course selection and with long-range academic and career planning.

It is important that students consider the course descriptions and prerequisites, keeping in mind their personal abilities and interests. Students should choose courses that contribute to the accomplishments of their educational, personal, and career goals.

Parents are asked to review this guide with their student. The information provided should generate helpful discussions about career opportunities, diploma types, and educational plans. Please assist school personnel as they work to help your student realize that the educational choices made today greatly affect the opportunities available in the future.

# CEDARBURG SCHOOL DISTRICT Mission Statement



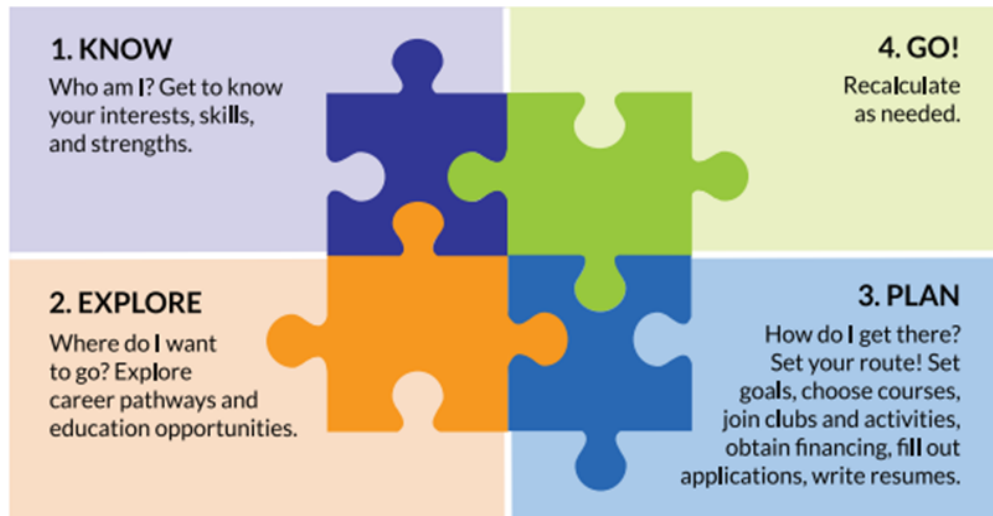
**NOTICE**

It is the policy of the Cedarburg School District that no person may be denied admission to any public school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil service, recreational, or other program or activity because of the person's sex, race, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual

orientation, or physical, mental, emotional, or learning disability or handicap as required by S.118.13, Wisconsin Statutes. This policy also prohibits discrimination as defined by Title IX of the Education Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1964 (race, color and national origin), and Section 504 of the Rehabilitation Act of 1973 (disability). All career and technical education programs, courses, and related activities are open to all students. The complaint procedure can be found in the Student Handbook. Those wishing to file a complaint can do so by contacting the District Superintendent at W68 N611 Evergreen Blvd. Cedarburg, Wisconsin 53012, (262) 376-6100.

## ACADEMIC AND CAREER PLANNING (ACP)

### 4 Stages to Successful Academic and Career Planning (ACP)



### Academic and Career Plan

A student's Academic and Career Plan is developed to support the student's academic success and prepare the student with the knowledge and skills necessary for higher education, multiple career paths and active citizenship.

The components of the Academic and Career Plan include: the student's course selections through high school graduation, identification of a postsecondary career pathway based on the student's academic and career interests, and goal-setting are also part of the plan.

### Using the Career Planning and Course Guide

- 1. Familiarize Yourself with Graduation Requirements**
- 2. Select a Career Cluster/Path**
  - Choose a career cluster/path(s) that closely relates to your interests, skills, values and strengths.
  - Explore occupations that relate to your skills.
  - Learn what education, skill and knowledge are required.
- 3. Identify Courses that Relate to Your Career Path(s)**
- 4. Develop a Plan.**



- ❑ Make a 4-year course plan.
- ❑ Identify extra-curricular experiences that will help you explore your interests.

**5. Meet with Your School Counselor to Finalize Your Course Selections**

## GRADUATION REQUIREMENTS

The Cedarburg School District believes that it is in the best interest of Cedarburg High School students to experience the diversity and quality of our school curriculum which permits students to choose a high quality educational program.

### **Student Classes/Credit**

A class that meets every other day for any one semester is a half credit class. Classes that meet every other day for one school year constitute a one credit class. Credit will be given by semester for classes satisfactorily completed. No credit will be awarded for a failing grade.

### **High School Graduation Requirements**

A minimum of 24 credits are required for a student to graduate from Cedarburg High School. To achieve a total of twenty-four (24) credits, each student must complete 15 required credits with the remaining credits taken as electives. The required credits are:

- 4 credits in English
- 3 credits in Social Studies
- 3 credits in Science
- 3 credits in Mathematics
- 1½ credits in Physical Education
- ½ credit in Health

Refer to English, Social Studies, Science, Math and Physical Education for specific requirements.

\*Note: to meet the district's financial literacy requirement for graduation seniors must select one of the following courses: College Personal Finance, Honors Economics & Finance, Economics, or AP Economics. Economics and AP Economics can count toward the credits required in Social Studies. Honors Economics and Finance can count 0.5 credit toward the required Social Studies credits. Specific course requirements in these areas are listed in each subject area within the *CHS Career Planning and Course Guide*. **Please note all course fees are approximate and are subject to change.** (Per Board Policy 5460).

## GUIDELINES & POLICIES

### **Semester Load Requirements**



All students in grades nine through twelve shall be enrolled in a minimum of three and one-half (3.5) credits each semester for a total of seven (7) credits per year. Students who return to school for a ninth semester or more need not fulfill this enrollment requirement.

A typical course load is seven (7) credits and with a maximum of eight (8) credits. Seniors with three (3) or more AP courses can maintain a minimum of six (6) credits. Other exceptions to these minimum and maximum credit loads must be cleared through the counseling office; further appeal is available through the principal. Each student must be enrolled in a class, study hall, or approved activity each hour of each class day. (Per Board Policy 5200.01)

### **Early Graduation**

The Cedarburg High School educational program is designed to be completed in four years or eight semesters. However, students may graduate early if they meet all of the following requirements:

1. accrue 24 credits
2. successfully complete all 15 required credits
3. complete a Mid-Year Graduation Request form from the Counseling Office
3. hold a student/parent conference with the principal and student's counselor ***prior to January 10*** of the preceding year

If graduation requirements are not completed upon the first semester's end, the student must carry enough subjects during the second semester to meet the minimum 7-credit yearlong requirement. A student who completes their graduation requirements early receives his/her diploma at the end of the school year at the graduation ceremony of his/her graduating class (or after, if the student is unable to attend the graduation ceremony). The graduate's permanent record (transcript) indicates that his/her date of graduation is at the end of the school year with his/her graduating class, but will note that all graduation requirements have been completed by midyear.

### **Awarding Credit for Transfer Students New to Cedarburg High School**

High school credits and grade point average earned at another public or private/parochial high school will be accepted and treated in a manner similar to credits and grade point average earned at Cedarburg High School. Cedarburg High School will record all courses from the previous school, with the designated credits shown on the transcript. Home-based private educational program students who transfer into Cedarburg High School and are placed at the sophomore year level or higher will be allowed six credits toward graduation for each of the years below the grade level of placement. Courses taken by students in home-based private educational programs will be recorded on the student's permanent record. Credit will only be recorded that is in compliance with mandates of curriculum requirements for home-based private educational programs under state law or are deemed by the High School Principal to meet the criteria of an elective in the current high school CHS Career Planning and Course Guide. Home-based instruction will be recorded as credit only. Home-based grades will not be recorded on the admitting high school transcript. Grades and grade point averages from home-based private educational programs shall not be used in class standing.

## **Awarding Credit for Classes Taken by District Students at Schools/Educational Institutions or Programs Other Than Cedarburg High School**

Other High Schools – Credits earned in courses taken at another public, private or parochial high school will be accepted and treated in a manner similar to credits earned at Cedarburg High School. Credit to be awarded toward graduation for classes taken by District students at other public high schools under the part-time public school open enrollment program shall be determined by the High School Principal or his/her designee prior to the student taking the course. Courses taken by District students at other high schools will not count as part of the student's grade point average or be used in class standing.

Foreign Exchange Programs - The Board of Education recognizes the educational value of student foreign exchange programs. Parents/guardians, students and school counselor must meet prior to a district student's participation in a foreign exchange program to review plans and verify graduation requirements. The High School Principal must pre-approve the program before any credit will be granted. Upon verification that a student has participated satisfactorily in a pre-approved foreign exchange program, the High School Principal or his/her designee may:

- A. Award credit based upon the evaluation of the transcript and the course hours and curriculum from the participating school. If equitable, credit will be awarded in the areas of study and in the amount applicable to the experience. Credits may be given for required Cedarburg High School courses.
- B. Award up to two credits per semester for independent study, more specifically, as a foreign cultural experience. Credits would be given in the foreign language and/or social studies areas. These credits will be elective credits.

Students participating in pre-approved summer foreign exchange programs may receive up to one-half credit. The program must be six weeks in length or greater. Upon return, students must request the credit in writing and submit a journal/log of their experiences to the High School Principal or his/her designee. Credit will be awarded on a pass/fail basis.

All courses taken by a District student as part of a foreign exchange program will be noted on the transcript. They will not count as part of the student's grade point average or be used in class standing.

Early College Credit Program (ECCP) and Start College Now (formerly Youth/Course Options) – A student in grades 9 through 12 will be permitted to enroll in a UW System institution, technical college, or a private, non-profit institution of higher education, to take one or more nonsectarian courses, for which the student may earn high school credit, post-secondary credit, or both. While the technical colleges are not included in the new ECCP financial structure, high school students will continue to be able to enroll in courses offered by a technical college through the Start College Now program. The High School Principal or his/her designee shall evaluate courses taken by students through the ECCP and Start College Now Programs in relation to the District's curriculum, graduation requirements and comparability to Cedarburg High School course offerings, and shall award high school credit accordingly. Credit will be awarded for ECCP courses consistent with state law and regulations. If a student is not satisfied with the District's decision regarding comparability of courses, satisfaction of high school graduation requirements, or the number of high school credits to be awarded, he/she may

appeal the decision to the State Superintendent of Public Instruction in accordance with state law. For those postsecondary courses taken for high school credit, the grade for that course will be computed at the end of the next regular grading period at the high school following the receipt of an official transcript from the institution of higher education. If a student receives a failing grade in a course or fails to complete a course, the student's parent, or the student if an adult, shall reimburse the School District the amount paid on the student's behalf under this program. If the Board is not reimbursed as requested, the student shall not be eligible for further participation in the program. A grade that constitutes a failing grade in the School District shall constitute a failing grade under this section of the guideline. For further clarification please refer to Cedarburg School District Administrative Guidelines ag2271.

For those postsecondary courses taken for high school credit, the grade for that course will be computed at the end of the next regular grading period at the high school following the receipt of an official transcript from the institution of higher education. All grades to be entered on the high school transcript must be taken from an official transcript from the institution of higher education. Should there be an urgent need for a letter grade, notification on official letterhead from the institution of higher education's instructor advising of the grade will be accepted to verify the grade. Classes in English, Math, Science, and Social Studies that extend beyond what is offered at CHS in the standard course sequence will be weighted the same as AP courses and Calc III & Lin Algebra (i.e. courses beyond Calculus III & Linear Alg Differential Equations).

Other Accredited Educational Institutions/Programs (e.g., correspondence courses, pre-college programs, summer enrichment programs)

A maximum of three elective credits from other accredited, credit-granting institutions may be applied toward the required 24 credits for graduation from Cedarburg High School. Prior approval from a principal-selected committee, which may include a school counselor and a department leader, must be given before a student enrolls in an educational institution or program under this section for credit. Students must apply to the committee by June 1 for the fall semester and November 1 for the spring semester. For students requesting courses that Cedarburg High School is unable to fulfill because of scheduling conflicts, the application process timeline may be extended to July 15. The following criteria will be used to determine approval:

- Is the course being offered from an accredited institution?
- Will the student receive a transcript?
- How many post-secondary credits are earned in the course?
- Does the course support the student's educational program at Cedarburg High School?
- For how many hours does the course meet?

It is the student's responsibility to contact the educational institution for which credit in a course is being requested to have a transcript forwarded to the Counseling Office at Cedarburg High School. This official transcript must indicate the course title, the letter grade earned, and the number of credits earned for the course at the educational institution. Cedarburg High School credit will be granted based on successful course completion upon review of the transcript. Credits earned at another educational institution will be accepted and treated in a manner similar to credits earned at Cedarburg High School. No credit will be awarded for failing grades.

For seniors wanting to graduate with their class, transcripts from pre-approved institutions under this section must be received in the Counseling Office no later than May 1. Courses taken at other educational institutions under this section will not count as part of the student's grade point average or be used in class standing.

### **High School Equivalency Diploma (HSED) Program**

A maximum total of 3.5 credits will be granted for work completed in the HSED program. The five academic courses, civics and career planning are equivalent to one-half Cedarburg High School credit each.

### **AWARDING OF CREDIT FOR ADVANCED COURSES TAKEN BY MIDDLE SCHOOL STUDENTS**

Advanced courses taken by Cedarburg students enrolled in middle school will not be noted on the high school transcript. They will not be counted in the grade point average or count toward high school graduation requirements.

### **ACADEMIC PROGRAM**

Each student's academic program is annually reviewed by his/her school counselor. Questions about the student's academic program may be directed to his/her school counselor.

### **STUDENT COURSE SELECTION**

Students, with the aid of their parents, teachers, and counselor, are expected to choose their courses carefully, considering their post-secondary goals. Every effort is made to honor student course selections, but it must be understood that schedule conflicts do occur. Course conflicts will be resolved in the best interest of the student.

### **COURSE RETAKES**

Students who retake a course in which they have earned a low grade will have the new grade calculated in the grade-point average, but the additional credit will not be counted towards specific graduation requirements. The previous grade remains and is calculated in the grade-point average.

### **SCHEDULE & STAFF CHANGES**

Students, with the aid of their parents, teachers, and counselor, are expected to choose their courses carefully, considering their post-secondary goals. If a student needs to add or drop a class to his/her schedule, refer to the following guidelines:

#### **COURSE DROP/CHANGE SEQUENCE (only one class)**

0-5 school days	Students may adjust classes as their schedule and class sizes allow.
6 days to the Progress	Students must follow handbook change/drop process stated below. No

Marking Period (mid-term/progress report)	consequence if a decision is made by all involved that a change is appropriate. "W" if the student wishes to change against the suggestion of the staff. The class will be replaced by a study hall.
From the Progress Marking Period to the End of the Quarter	Students may drop with a "W" placed on the transcript. The class will only be replaced by a study hall.
End of the Quarter to the End of Semester/Year	Student may drop the class with an "F" on the transcript and will be placed in a study hall.
End of Semester	Students may change classes to another semester class or a class where the content aligns to best support the transition.

**\*\*NOTE: A course change is only processed if it fits in the students' schedule and there is room in the class being added. Students must maintain 7 classes each semester unless approved by administration.**

At Cedarburg High School we believe the best way to achieve success in the classroom is through regular communication between the student, staff and parent. Therefore, the following steps are required if and when issues between a student and his/her teacher or counselor arise and a staff change is requested:

1. Student meets with the teacher or counselor to discuss the struggles and work to resolve.
2. (Teacher Change) Parent and teacher meet to identify and analyze the problem and create a plan to move forward. The plan may include seeking additional support during resource or after school, modifications in class when appropriate, or other forms of support deemed necessary.
3. (Teacher Change) Parent, student and teacher will meet with the counselor to discuss concerns and seek improvements.
4. (Counselor Change) Parent and counselor meet to identify and analyze the problem and create a plan to move forward. The plan may include differentiating services or increasing the frequency of support.
5. When efforts between students, staff and parents have reached an impasse, a written request may be made to administration that identifies the concerns and action steps taken to remedy struggles. For ease of change and fluency of assignments and grades, teacher changes will only be executed at the end of each quarter.

### **REFUND POLICY**

Requests for refunds of course fees must be made in writing to the high school office within 15 days of the start of the semester in which the course was originally scheduled. The student must have dropped the course **before the first day of class** to be eligible for a refund. Any additional course fees for added courses must be paid at the time of scheduling.

### **GRADE WEIGHTING**

All Advanced Placement courses, along with Calculus III and Linear Algebra & Differential Equations, are weighted by one full grade (i.e. 3.0=4.0).

## **HUMAN GROWTH AND DEVELOPMENT**

In compliance with Wisconsin State Statute 118.019, Cedarburg High School is committed to providing human growth and development as part of its comprehensive education program. The required high school course that includes Human Growth and Development instruction is Freshman Health. Parents are provided with information about the content of this instruction and are both invited and encouraged to review human growth and development curriculum and instructional materials. If desired, parents have the right to exempt their child from participation in this instruction.



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

<b>CHS Course</b>	<b>Supporting College</b>	
Fundamentals of Speech	UW-Oshkosh CAPP (3 cr. Communications 111: Communication Fundamentals of Speech Communication)	T.C.
Journalism	UW-Oshkosh CAPP (3 cr. Journalism 221: Writing for the Media)	T.C.
Trigonometry/Pre-Calculus	UW-Oshkosh CAPP (5 cr. MATH 108: Pre-Calculus)	T.C.
Calculus III	UW-Oshkosh CAPP (4 cr. MATH 273: Calculus III)	T.C.
College Reading	UW-Oshkosh CAPP (1 cr. ACAD-169)	T.C.
Commercial Art/Graphic Des.S1	Milwaukee Area Technical College (3 cr. GRDS 103: Design Elements & Principles)	T.C.
Commercial Art/Graphic Des.S2	Milwaukee Area Technical College (3 cr. GRDS 122: Vector Graphics: Adobe Illustrator)	T.C.
Digital Photography	Milwaukee Area Technical College (3 cr. PHOTO 141: Photoshop for Photographers 1)	T.C.
College Accounting	UW-Oshkosh CAPP (3 cr. Accounting 210: Accounting)	T.C.
College Personal Finance	UW-Oshkosh CAPP (3 cr. BUS 231:Personal Finance)	T.C.
Honors Econ. and Finance	UW-Oshkosh CAPP (3 cr. BUS 231:Personal Finance)	T.C.



Intro to College Business	UW-Oshkosh CAPP (3 cr. BUS 198: Introduction to Business)	T.C.
Childhood Development II	Milwaukee Area Technical College (3 cr. CHILD 148: ECE: Foundations of ECE)	T.C.
PLTW Introduction to Engineering Design (IED)	Milwaukee School of Engineering (3 cr. GE-1002: Introduction to Engineering Design)	T.C.
PLTW Principles of Engineering (POE)	Milwaukee School of Engineering (3 cr. GE-1001: Principles of Engineering)	T.C.
PLTW Civil Engineering and Architecture (CEA)	Milwaukee School of Engineering (3 cr. GE-1006: Civil Engineering and Architecture)	T.C.
PLTW Principles of Biomedical Science	Milwaukee School of Engineering (3 cr. BI-1001: Principles of Biomedical Science)	T.C.

**T.C. (Transcripted Credit)** = Upon completion of their CHS course and college requirements, students will receive credit for a college equivalent course that will be placed on a respective college transcript for that student.

**CAPP** = The Cooperative Academic Partnership Program (CAPP) at the University of Wisconsin Oshkosh and Lakeland College provides academically able high school students an opportunity to earn college credits while still in high school. Qualified students may enroll in select college courses taught by university approved high school instructors.

The link address to UW-Oshkosh's CAPP is: [www.uwosh.edu/cols/aggregator/special-programs/capp/](http://www.uwosh.edu/cols/aggregator/special-programs/capp/)

The link address to Lakeland College's CAPP is:

<http://lakeland.edu/Academics/concurrent-academic-progress-program>

Link to colleges that accept CAPP credits:

[www.uwosh.edu/capp/internal-documents/capp-credit-recognition](http://www.uwosh.edu/capp/internal-documents/capp-credit-recognition)

**\*\* NOTE: Please see your CAPP instructor or school counselor for the latest information on the cost of these offerings.**

**PLTW at MSOE** = Student who meet Milwaukee School of Engineering (MSOE) eligibility requirements for taking CHS PLTW classes can apply for MSOE credit. The link address to MSOE's PLTW opportunities can be found at:

<https://www.msoe.edu/admissions-aid/undergraduate-admissions/incoming-credits/project-lead-the-way>

**MATC Dual Enrollment Academies** - The Dual Enrollment Academies (DEA) are for seniors interested in receiving college-level training to begin careers in high-demand field while in high school. Throughout their senior year, DEA students earn high school and college credits while spending the majority, if not all, of their school day at Milwaukee Area Technical College (MATC). Available programs include: [Culinary and Baking](#), [Information Technology](#), [Practical Nursing](#), [Pre-Nursing/General Studies](#), [Protective Services](#), and [Welding](#). Click on the programs for links to specific information about each program.





# GLOBAL SCHOLARS PROGRAM

Cedarburg High School students who wish to obtain their Global Scholars certificate must fulfill the following **four** graduation requirements:

## Part 1: Course Work

Students must complete at least 4 yrs/credits in a single world language (French, German, or Spanish).

Students must complete at least 4 credits of coursework with a global focus, which includes courses on:

<b>International Economics, Business or Marketing:</b>	AP Economics, Honors Economics, Economics, Marketing and International Business
<b>International Studies:</b>	20th Century Conflicts, AP Comparative Government and Politics, International Foods
<b>Mathematics</b>	Global Mathematics
<b>World History:</b>	AP World History, Ancient Civilizations
<b>World Geography:</b>	AP Human Geography, Global Studies
<b>Science and Technology:</b>	Environmental Science, AP Environmental Science, AP/PLTW Computer Science Principles, Cybersecurity, PLTW: Introduction to Engineering Design, PLTW: Principles of Engineering, PLTW: Civil Engineering and Architecture, PLTW: Engineering Design and Development, PLTW: Biotechnical Engineering
<b>Literature:</b>	Composition/Literature 10, Composition/Literature Pre-AP 10, British Literature, AP Literature and Composition
<b>Music, Drama, and Visual Arts:</b>	Cultural Art, AP Art History

## Part 2: Cultural Literacy

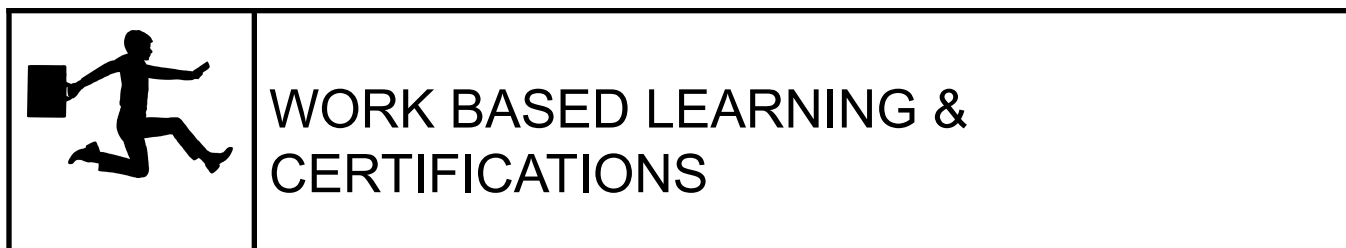
Each student seeking this certificate shall complete independent reviews/reflection on at least eight (8) works of international/cultural media, including at least four books (fiction and nonfiction). Other international/cultural media may include films, music, and art exhibitions. Students may elect to read books from a recommended reading list or other works (including newly released works) with prior approval by the Global Scholars Coordinator and/or the Global Scholars Cultural Literacy committee. The Global Scholars Coordinator and/or the Global Scholars Cultural Literacy committee will determine the criteria for reviews and reflections and how student works will be evaluated.

### Part 3: Co-Curricular and Other School-Sponsored Activities

Each student seeking this certificate shall demonstrate interest in global citizenship through active participation and leadership in at least four (4) co-curricular and other school-sponsored or endorsed activities in grades 9-12. These co-curricular and other school-sponsored or endorsed activities are identified on the school's Global Scholars website.

### Part 4: Community Service

Each student shall complete a global/cross-cultural public service project, involving at least twenty (20) hours of work, connected to a global community (different from his/her own) or to a global issue. This project may include raising awareness about a global issue, fundraising for an international nonprofit service agency/organization, working on an international project with Returned Peace Corps Volunteers, Rotary, or other Service Club, tutoring a child who is an English language learner, or volunteering with a cultural/linguistic group in the community. Each student shall present a project proposal to the CHS Community Service coordinators and must follow district/school policy prior to initiating the project and submit a summary report upon completion.



#### **DRONE REMOTE PILOT CERTIFICATION**

**2700**

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

**PREREQUISITE:** Algebra I Accelerated

**APPROXIMATE FEES:** \$10

**NOTE:** This course will not fulfill any of the 3 credits required for the math graduation requirement.

**COURSE DESCRIPTION:** (Level I Transportation Course) Students will be able to learn how to operate a drone safely and professionally. During this class students will be building and learning how to program a drone. Upon completion of this course students will obtain their 107 Remote Pilot License and a mapping certification.

#### **LEADERSHIP**

**7520**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Leadership balances working on school and community projects with classroom activities that develop and improve leadership skills. The students will study the following topic areas: Trust, Team Building, Communication, Problem Solving, Decision Making, Goal Setting, Leadership Styles, Ethics, Diversity and Community Service. Group work challenges students to go beyond their perceived boundaries and to experience success on an individual and group basis. A leadership skill certificate is offered upon successful completion of the certificate requirements.

#### **BUSINESS CAPSTONE**

**7699**

**Credit:** 1                      **Level:** 12

**PREREQUISITE:** Business Enterprise I and Accounting I or Introduction to College Business or see Mrs. Kutz for approval

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will take a hands on approach to their learning by running the school store. They will be able to apply their

knowledge in a multitude of ways. Students will also directly benefit from the success of the school store by participating in **profit sharing (you can make \$\$\$)**. In addition, students will collaborate with other departments and business community members to create products to sell within the school store and complete individual projects to deepen their learning in areas of their interest. As a student enrolled in International Business, you are encouraged to become a member of FBLA-DECA, which allows you to develop leadership skills, management and decision making skills.

### **CAREER INTERNSHIP 7500**

**Credit:** ½ or 1      **Level:** 11, 12

**PREREQUISITE:** Approval by Mr. Nelson

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is offered to juniors and seniors who want to obtain experience in a potential career choice. The opportunities for placement depend upon the student's interests, as well as suitability and availability for voluntary (unpaid) involvement. Learning experiences may include assisting in a classroom, working at a nonprofit organization, obtaining valuable knowledge at a local business. Students often share similar experiences as college interns. Students will also meet in the classroom roughly once a month to learn about valuable employment skills like interviewing and positive work traits. Each student will meet with their advisor once a week to discuss their weekly written report and make plans for future activities. Students interested in this course must speak with Mr. Nelson prior to enrollment. It is highly recommended that students have placement prior to the start of the semester. Students have the option of taking Career Internship for one semester or the entire school year.

### **FAMILY & CONSUMER SCIENCE WORK-BASED LEARNING/ COOPERATIVE SKILLS CERTIFICATION 7940**

**Credit:** 2      **Level:** 11, 12

**PREREQUISITE:** Previously or currently enrolled in Family and Consumer Science course and approval from Family and Consumer Science teacher

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This Cooperative Skills Standards Certificate Program is a 2 credit course for junior or senior students who are interested in combining paid work experience with classroom training in employability skills. Students learn technical tasks and employability skills validated by

business and industry representatives in cooperation with high school instruction. Paid work experience can include but is not limited to: child care, health occupations, personal finance, customer service, fashion retail, hotel and hospitality, food and culinary service and home furnishings/home improvement. **Students will receive a DPI Cooperative Education Skills Standard Certificate upon completion of course.**

### **TRANSPORTATION CAPSTONE 8160**

**Credit:** 1      **Level:** 11, 12

**PREREQUISITE:** Transportation Technologies formerly Automotive Service and Repair (8140); consent of teacher

**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** (Level III Transportation Course) The CHS Transportation Capstone is an event at the end of your high school career which allows you to showcase the skills you have developed in your transportation classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations. Projects can range from small engine rebuild, large automotive projects or collaboration projects.

Upon completion of this course, the student will develop a project of their own. Students will utilize all skills learned from previous courses as well as the design process to create a one of a kind personal project. Students will be encouraged to learn new high level skills and collaborate with outside sources to develop their project.

### **WOOD TECHNOLOGIES & DESIGN CAPSTONE 8380**

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

**PREREQUISITE:** Wood Technologies II (8361)

**APPROXIMATE FEES:** \$20.00-\$200 (based upon project made)

**COURSE DESCRIPTION:** (Level III Wood Technologies Course) The CHS Wood Technologies Design Capstone is an event at the end of your high school woodworking career which allows you to showcase the skills you have developed in your Woodworking and Wood Technologies classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high

school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations. Projects can range from personalized cabinetry to storage buildings.

Upon completion of this course, the student will develop a project of their own. Students will utilize all skills learned from previous courses as well as the design process to create a one of a kind personal project. Students will be encouraged to learn new high level skills and collaborate with outside sources to develop their project.

### **ADVANCED MANUFACTURING & DESIGN CAPSTONE** 8380

**Credit:** 1 **Level:** 11,12

**PREREQUISITE:** Advanced Metalworking (8485)

**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** (Level III Metal Technologies & Manufacturing Course) The CHS manufacturing design capstone is an event at the end of your high school career which allows you to showcase the skills you have developed in your metalworking and advanced metalworking classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations.

### **ADVANCED AUTODESK INVENTOR** 8515

**Credit:** ½ **Level:** 10,11,12

**PREREQUISITE:** Intro. to Engineering Design

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** PLTW programs across the United States introduce students to 2D and 3D design skills by teaching them the basic use of the state-of-the-art Autodesk design software. By completing the Advanced AutoCad Inventor course, students can earn an industry-recognized certification known as Autodesk Certified User (ACU). An ACU demonstrates proficiency in Autodesk design skills required for a number of professional careers. ACU certification is the perfect way for students to expand their interest and knowledge in the field of design. Becoming Autodesk certified makes students more attractive to potential employers and better prepares them for their future education and career pursuits. ACU certification confirms students have the skills necessary to continue their design careers-whether they attend

college, enter the workforce or work toward additional levels of industry certification after graduation. Projects include the design and construction of a mechanical toy using the laser engraver and 3D printer.

### **PLTW: ENGINEERING DESIGN AND DEVELOPMENT (Project Lead the Way)** 8570

**Credit:** 1 **Level:** 12

**PREREQUISITE:** Intro. To Engineering Design (IED) and one other PLTW course

**APPROXIMATE FEES:** \$15

**COURSE DESCRIPTION:** (Level III Engineering Course) In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel.

### **CAREER CLUSTERS** 9820

**Credit:** 3 for entire year (1½ each semester)

**Level:** 11,12

**Prerequisite:** School counselor, special education department, and instructor consent required

**Fees:** None

**COURSE DESCRIPTION:** This course is designed students that are at-risk or are in special education who would benefit from a structured school-to-work based setting to learn basic employment skills, including, but not limited to, professional social skills, proper workplace dress and hygiene, interview skills, the job application process and resume writing. Currently, this opportunity is housed at Columbia St. Mary's Hospital Ozaukee. Students have the opportunity to work in various departments throughout the hospital. Students will work during two blocks of their school day, each day.

### **WORK RELEASE** 1940

**Credit:** May earn ½ per semester (dependent on number of hours worked)

**Level:** 11,12

**Prerequisite:** School Counselor, At-Risk Coordinator, and Administrator consent

**Fees:** None

**Note:** Work Experience is scheduled in addition to the minimum seven credit requirement. Grades are satisfactory/unsatisfactory and are not included in the grade point average.

**COURSE DESCRIPTION:** This course is school-to-work supervised program for academically at-risk students. Students are responsible for obtaining their own employment. Contracts are established, which include the school; the employer; and the student, along with the parent(s)/guardian(s). Students are expected to work an average of 15 hours per week and provide documentation of their work hours. Students are evaluated quarterly, based on worksite performance. Applications for this course must be picked up from the Attendance Office.

### **YOUTH APPRENTICESHIPS \***

AGRICULTURE & FOOD SCIENCE	(9845)
ARCHITECTURE & CONSTRUCTION	(9860)
ARTS, A/V TECH & COMMUNICATION	(9825)
FINANCE	(9870)
HEALTH SCIENCE	(9840)
HOSPITALITY & TOURISM	(9835)
INFORMATION TECHNOLOGY	(9830)
MANUFACTURING	(9890)
TRANSPORTATION DISTRIBUTION AND LOGISTICS	(9850)
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS	(9880)

**Credit:** ½ credit each semester for the industry-related course (if applicable); ½ credit each semester for the work experience component

**Level:** 11, 12

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

**Fees:** None

**COURSE DESCRIPTION:** Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin Industries. YAs are operated under guidelines established by the State of Wisconsin and are coordinated with each Ozaukee County school district. Students chosen for YA programs are scheduled into high school courses, industry related coursework, and paid worksite learning. Successful completion of the YA program provides each student with a certificate of occupational proficiency from the State of Wisconsin, his/her high school diploma, and advanced standing with the Wisconsin Technical College System. After graduation from high school, students will have the option to enter the workforce

with enhanced employability skills, enter a technical training program or college, or enroll at a four-year university to study for a baccalaureate degree. Program requirements for a “level one” certification include 450 hours of work-based experience & 900 hours for a “level two” certification.

\*All YA can be taken for either one or two years.

### **CHS STATE-CERTIFIED REGIONAL CAREER PATHWAYS**

[NURSING](#)

[CONSTRUCTION](#)

[ADVANCED MANUFACTURING TECHNOLOGY](#)

**Credit:** N/A

**Level:** all (recommended by sophomore year)

**Prerequisite:** Save the career as one of interest in Naviance.

**Fees:** per the fee structure as outlined in the courses taken

**COURSE DESCRIPTION:** Participating in one of the CHS state-certified regional career pathways allows students the opportunity to explore and prepare for careers after high school. To be considered a Wisconsin Regional Career Pathway completer, a student must participate in 3 of 4 possible career exploration elements below:

**ELEMENT 1 -**

Complete a Sequence of 3 Pathway Courses

**ELEMENT 2 -**

Obtain an Industry-Recognized Certification

**ELEMENT 3 -**

Participate in a Work-Based Learning Experience

**ELEMENT 4 -**

Participate in a College Credit Opportunity

# PLANNING TOOLS

## Academic Preparation Information

Subject	Cedarburg HS	Minimum College Prep	University of WI System	Selective Universities
<b>English</b>	4 credits	4 credits	4 credits	4 + credits including honors and/or AP
<b>Mathematics</b>	3 credits	3 credits (at least Algebra, Geometry, Algebra II)	3 credits (at least Algebra, Geometry, Algebra II)	4 credits (including honors and/or AP)
<b>Science</b>	3 credits	3 credits	3 credits	4 credits (including honors and/or AP)
<b>Social Studies</b>	3 credits	3 credits	3 credits	4 credits (including honors and/or AP)
<b>World Language</b>	Not required	0-2 credits	2 credits at UW Madison (min)	3-4 credits including AP
<b>Computers</b>	Not required	Computer proficiency recommended	Will count toward academic preparation	Computer proficiency recommended
<b>Fine Arts</b>	Not required	Recommended	Will count toward academic preparation	1 or more credits may be required (ie. U of MN, Arizona)
<b>Physical Education</b>	1.5 credits	Not required	Not required	Not required
<b>Health</b>	0.5 credit	Not required	Not required	Not required
<b>Electives</b>	9 credits	Academic electives	4 academic electives from above areas	Academic electives recommended
<b>Total</b>	24 credits	16-17 academic credits	17 or more academic credits	18-20 academic credits

\*Note: to meet the district's financial literacy requirement for graduation, seniors must select one of the following courses: College Personal Finance, Economics, Honors Economics & Finance, or AP Economics. Economics and AP Economics can count toward the credits required in Social Studies. College CAPP credit is available for College Personal Finance and Honors Economics & Finance.



## Four-Year Course Planning Sheet

<u>9th Grade</u>	<u>10th Grade</u>																																																												
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## COURSES OF STUDY/CAREER PATHWAYS AND CAREER CLUSTERS

Cedarburg High School offers guidance and course opportunities to develop awareness of skills for future careers. The following pages explain Career Clusters and the pathways one can take within each cluster. They are designed to help students develop a coherent sequence of preparation for college and careers. Utilizing the 16 Career Clusters, students can identify pathways from high school to two- and four-year colleges, graduate school or directly into the workforce. You can find more information about the Career Clusters and their pathways at: <http://www.wicareerpathways.org/> On the following pages, you will find courses recommended for each cluster. Many courses require prerequisites - please see the course description guide 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, music, theater/drama, career/tech ed, etc. These recommendations are broad in order to match each career cluster, but not all courses are required for each occupation in that cluster. For more information about career choices and relevant courses, see your counselor.

**\*REQUIRED COURSES ARE NOT LISTED ON THE CAREER PATHWAYS PAGES BECAUSE ALL STUDENTS WILL NEED TO TAKE THEM TO FULFILL GRADUATION REQUIREMENTS.**

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>

	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Executing governmental functions to include Governance, National Security, Foreign Service, Planning, Revenue and Taxation, Regulation, and Management and Administration at the local, state, and federal levels.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>
	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>

 <p><b>L</b>aw, Public Safety, Corrections &amp; Security</p>	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
 <p><b>M</b>anufacturing</p>	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
 <p><b>M</b>arketing, Sales &amp; Service</p>	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
 <p><b>S</b>cience, Technology Engineering &amp; Math</p>	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
 <p><b>T</b>ransportation, Distribution &amp; Logistics</p>	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>



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

**Do you have an interest in:**

**Animals**

- Working with sick or injured animals
- Working with companion animals like dogs and cats
- Working with unique species such as fish for food
- A medical field
- Marine Biology

**Plants**

- Caring for plants in your home and yard
- Designing landscapes for homes or businesses
- Developing new plants or modifying existing ones
- What plants need to grow successfully

**Natural Resources**

- Native fish and their aquatic habits
- Forest ecosystems
- Preservation of endangered species'
- Wolves and whitetails in Wisconsin

**Food**

- What makes bread rise and soda fizz
- Being a food scientist
- Designing new food and flavors
- How science is used to process your food

**Pathways in this cluster**

- **Food Products & Processing Systems**
- **Plant Systems**
- **Animal Systems**
- **Power, Structural, & Technical Systems**
- **Natural Resource Systems**
- **Environmental Service Systems**
- **Agribusiness Systems**

**Recommended Courses for this Cluster:**

AP Biology	Algebra 2	Organic Chemistry	Advanced Foods
AP Chemistry	Trigonometry	Psychology or AP Psych	Business Enterprise I
Oral Communication	Statistics	Sociology	Marketing and International Business
Environmental Science	Calculus	Beginning Foods	World Language
AP Environmental Science	Geology	International Foods	Outdoor Education
Youth Apprenticeship:	Zoology & Botany	PLTW: Civil Engineering & Architecture	Small Engines
Agriculture & Food Science	Anatomy & Physiology 1&2		Metal Tech & Manufacturing

# AGRICULTURE & NATURAL RESOURCES

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Bee Keeper	Crop Sprayer	Farm Worker
Fisherman	Landscape Laborer	Logger
Nursery Worker	Pet Groomer	Pet Shop Worker
Stable Worker	Vet Hospital Worker	

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Animal Control Officer	Arborist	Animal Nutritionist
Bio-Tech Lab Technician	Cheese Maker	Crop &/or Animal Farmer
Environmental Technician	Ferrier	Fish & Game Officer
Forestry Technician	Genetic Technologist	Golf Course Manager
Greenhouse Manager	Horticulturist	Landscape Designer
Quality Food Control Specialist	Turf Manager	Veterinary Technician
Wastewater Technician		

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Agricultural Commodities Broker	Agricultural Economist	Agricultural Educator
Agricultural Engineer	Agricultural Sales & Communications	
Agriculture Banker	Animal Psychologist	Animal Scientist
Biochemist	Botanist	Civil Engineering
Entomologist	Food Scientist	Forrester
Game Warden	Geneticist	Greenhouse Operator
Landscape Architect	Marine Biologist	Plant Pathologist
Soil Geologist	Soil Scientist	Toxicologist
USDA Inspector	Veterinarian	Wildlife Biologist
Zoologist		

#### Related Co-Curricular, Student Organizations & Activities:

Environmental Club	Art Club	Robotics Team
SMART Team	Engineering Club	Community Service
Athletics	Math Team	



***Architecture in Wisconsin includes:  
Careers in designing, planning, managing, building, and maintaining the built environment.***

## Interests and Abilities

### Activities that describe what I like to do:

- Read and follow blueprints &/or instructions
- Picture in my mind what a finished project looks like

### Work with my hands:

- Perform work that requires precise results
- Solve technical problems
- Visit and learn from beautiful, historic, or interesting buildings

### Personal qualities that describe me:

- Curious
- Good at following directions
- Pay attention to detail
- Good at visualizing possibilities
- Patient and persistent

### School subjects that I like:

- Math
- Drafting
- Physical Sciences
- Construction Trades
- Electrical Trades/Heat, Air Conditioning, and Refrigeration/Technology Education

### Pathways in this cluster

- **Design/Pre-Construction**
- **Construction**
- **Maintenance/Operations**

## Recommended Courses for this Cluster:

Painting	PLTW: Principles of Engineering	Business Enterprise	Math through AP Calculus
Interior Design	PLTW: Intro to Engineering Design	Marketing & International Business	Physics
Commercial Art	PLTW: Civil Engineering & Architecture	Digital Media	Materials Science
Drawing	Wood Technologies	Microsoft Office	AP Physics
Ceramics	Metals Technologies & Manufacturing	Intro to Text and Block Base Programming	World Languages
2D Drawing	Architectural Drafting	Environmental Science	Youth Apprenticeships:
3D Design		AP Environmental Science	Architecture & Construction
Technical Theatre			Or STEM

**\*\* PARTICIPATE IN THE CHS CONSTRUCTION REGIONAL CAREER PATHWAY\*\***



# AGRICULTURE & CONSTRUCTION

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Construction Laborer  
Fence Builder

Construction Worker Helper  
Highway Maintenance Worker

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Air Conditioning Technician  
Bricklayer  
Cement Mason  
Electrician  
Pipe fitter  
Plumber

Architectural Drafter  
Carpenter  
Drywall Installer  
Glazier  
Plasterer  
Tile Setter

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Architect  
C.A.D. Designer  
Cost Estimator  
Grounds Supervisor  
Landscape Architect

Building Contractor  
Civil Engineer  
Electrical Engineer  
Interior Design

#### **Related Co-Curricular, Student Organizations & Activities:**

FBLA	Stage Crew
Engineering Club	Math Team
Computer Team/ Club	Community Service
Athletics	Robotics Team
Art Club	



## ***Arts in Wisconsin***

***includes:***

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

## **Interests and Abilities**

### **Activities that describe what I like to do:**

- Use my imagination to communicate new information to others
- Perform in front of others
- Read and write
- Play a musical instrument
- Perform creative, artistic activities
- Use video and recording technology
- Design brochures and posters

### **Personal qualities that describe me:**

- Creative and imaginative
- Good communicator / good vocabulary
- Curious about new technology
- Relate well to feelings and thoughts of others
- Determined / tenacious

### **School subjects that I like:**

- Art / Graphic Design
- Music
- Speech & Drama
- Journalism / Literature
- Audiovisual Technologies / Photography

### **Pathways in this cluster**

- **Audio and Video Technology & Film**
- **Printing Technology**
- **Visual Art**
- **Performing Arts**
- **Journalism & Broadcasting**
- **Telecommunications**

## **Recommended Courses for this Cluster:**

Fund of Speech  
Intro to Theatre  
Acting  
2D Drawing  
3D Design  
Journalism  
Sociology  
Psychology & AP Psych  
Current Issues  
Technical Theatre

Global Studies  
Math Through Algebra II  
Choir and Band  
Music Theory  
Youth Apprenticeship:  
Art/AV Tech & Comm  
Desktop Publishing  
Digital Media  
Sculpture

World Language  
Drawing  
Painting  
Commercial Art/Graphic  
Design  
Watercolor  
Ceramics  
Advanced Ceramics

AP Studio Art  
Digital Photography  
Advanced Photography  
Block & Text Based  
Programming  
AP Computer Science  
App Development  
Game Design  
AP Art History  
Fashion Merchandising

# Arts, A/V Technology & Communications

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Floral Designer	Food Stylist	Musician
Proofreader	Stained Glass	Mural Painter
Photographer	Pre-Press	Sign Designer/Painter

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Animator	Bookbinder
Broadcast Technician	Caption Writer
Craft Artist	Prepress Technician
Printing Press Operator	Recording Technician
Taxidermist	Public Relations Manager
Sign Painter	Potter
Graphic Designer	Communications Line
Maintainers	

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Artist	Cinematographer	Composer	
Copy Editor	Dancer	Photographer	
Potter	Set Designers	Reporter	
Illustrator	Jeweler	Architect	
Interior Decorator	Art Teacher	Art Professor	Art Therapist
Graphic Designer	Videographer	Journalist	Art Historian

### Related Co-Curricular, Student Organizations & Activities:

Pit/Pep Band	Forensics	Debate
Stage Crew	Art Club	Thespians Society
Common Sense	Drama/Theater Club	Fall/Spring Play
Cheerleading	Student Council	Winter Musical
Dance Team	Cedarial	Youth Apprenticeship:
Computer Team/Club	Community Service	Arts, A/V Tech & Comm



***Business in Wisconsin  
includes:***

***Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Perform routine organized activities but can be flexible
- Work with numbers and detailed information
- Be the leader in a group
- Make business contact with people
- Work with computer programs
- Create reports & communicate ideas
- Plan my work and follow instructions without close supervision

**Personal qualities that describe me:**

- Organized
- Practical & logical
- Patient
- Tactful
- Responsible

**School subjects that I like:**

- Computer Applications, Business & Information Technology
- Accounting
- Math
- English
- Economics

**Pathways in this cluster**

- **General Management**
- **Business Information Management**
- **Human Resources**
- **Operations Management**
- **Administration Services**

**Recommended Courses for this Cluster:**

Microsoft Office	Digital Media	Fundamentals of Speech	Math to Algebra II (min)
Personal Finance	Business Capstone	Communication	Probability & Statistics
College Personal Finance	Economics	Sociology	AP Statistics
Accounting	Honors Econ & Finance	Psychology & AP	Current Issues
College Accounting	AP Economics	Psychology	Youth Apprenticeships:
Desktop Publishing	Choir and Band	Intro Text/Block	Finance
Marketing & International Business	Technical Theatre	Programming	
Business Enterprise	2 Years of World Language	AP Computers & Principles	
Sports & Entertainment Management	Digital Photography	AP Environmental Science	
	Commercial Art		

# BUSINESS, MANAGEMENT & ADMINISTRATION

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Bank Teller	Caterer	File Clerk
Mail Clerk	Meter Reader	Receptionist
Sales Clerk	Typist	Telephone Operator

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Accountant	Administrative Assistant	
Computer Operator	Court Reporter	
Kennel Owner	Small Business	
Owner	Stenographer	Tax Preparer

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Advertising Manager	Art Director
Business and Industry	Consultant
Healthcare Administrator	Human Resource Manager
Marketing Manager	Sales Representative
Theater Manager	Travel Agency Manager

#### Related Co-Curricular, Student Organizations & Activities:

Lead	Student Council	AFS
FBLA	Bridge Builders	Community Service
Debate	Forensics	Model UN
T3	World Language Clubs	Art Club



**Education in Wisconsin  
includes:  
Planning, managing, and  
providing education and training  
services, and related learning support  
services.**

## Interests and Abilities

### Activities that describe what I like to do:

- Communicate with different types of people
- Help others with their homework or learning new things
- Go to school
- Direct and plan activities for others
- Handle several responsibilities at once
- Acquire new information
- Help people overcome their challenges

### Personal qualities that describe me:

- Friendly
- Decision Maker
- Helpful
- Innovative / Inquisitive
- Good listener

### School subjects that I like:

- Language Arts
- Social Studies
- Math
- Science
- Psychology

### Pathways in this cluster

- Administration & Administrative Support
- Professional Support Services
- Teaching / Training

## Recommended Courses for this Cluster:

Fundamentals of Speech  
Communication  
Composition/American Lit  
AP Lang & Lit  
AP Chemistry  
AP Biology  
AP Economics  
Economics  
Honors Econ & Finance  
AP Comparative Government  
AP Government & Politics  
American Government  
Psychology  
AP Psychology

Sociology  
AP World History  
Global Studies  
US History  
AP US History  
Current Issues  
Child Development I&II  
World Language  
Probability & Statistics  
Microsoft Office  
Personal Finance  
Digital Media  
Fine Arts  
Career Internship

Math - Depends of field:  
Non-math related fields  
through Algebra 2 min..  
Through Calculus for math  
related fields.

Science related fields  
should take as many  
science courses as  
possible.

*\* Students interested in  
secondary education  
should take as many  
relevant courses in the area  
in which they wish to teach.  
For example, if you are  
interested in teaching  
history, take a wide variety  
of social studies courses/art  
teacher-take all art  
courses.*

*\*Education majors should  
consider volunteering at  
the elementary/middle  
school level in the  
junior/senior year.*

# EDUCATION & TRAINING

## Career Options

### FROM HIGH SCHOOL

#### *On-the-job training and/or minimal experience*

Aerobics Instructor  
Child Care Assistant  
Dance Teacher  
Library Assistant  
Self-Enrichment Teacher

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

#### *Community college, technical college, apprenticeship, experience*

Preschool Teacher  
Teacher Assistant  
Sign Language Interpreter

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

#### *Colleges/Universities*

Apprenticeship Consultant	Bilingual Educator
Educational Administrator	Instructional Coordinator
Kindergarten Teacher	School Psychologist
Secondary School Teacher	Teacher of the Blind
Vocational Education Teacher	Agri-Science Instructor

#### **Organizations & Activities:**

Student Council	Adapted Physical Education Mentor
LEAD	Model UN
National Honor Society	AFS
T3	Community Service
Peer Tutor	Bridge Builders
Common Sense Newspaper	Cedarial Yearbook
Monitor	





***Finance in Wisconsin  
includes:  
Planning and services for financial  
and investment planning, banking,  
insurance, and business financial  
management.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Work with numbers
- Work to meet a deadline
- Make predictions based on facts
- Have a framework of rules by which to operate
- Analyze financial information and interpret it to others
- Handle money with accuracy and reliability
- Take pride in the way I dress and look

**Personal qualities that describe me:**

- Trustworthy
- Orderly
- Self-confident
- Logical
- Methodical and efficient

**School subjects that I like:**

- Accounting
- Math
- Economics
- Banking / Financial Service
- Business

**Pathways in this cluster**

- **Securities & Investments**
- **Business Finance**
- **Banking Services**
- **Accounting**
- **insurance**

**Recommended Courses for this Cluster:**

- |                                    |                                     |                                       |
|------------------------------------|-------------------------------------|---------------------------------------|
| Accounting                         | Marketing & International Business  | Fundamental of Speech                 |
| College Accounting                 | Business Capstone                   | Communication                         |
| Marketing & International Business | Personal & College Personal Finance | Intro to Text/Block Based Programming |
| Microsoft Office                   | Digital Media                       | AP Computer Science                   |
| Desktop Publishing                 | Current Issues                      | AP/PLTW Computer Science Principles   |
| Intro to College Business          | Honors Economics & Finance          | Math through Algebra 2 (minimum)      |
| Sports & Entertainment             | Economics or AP Economics           | Probability & Statistics              |
| Marketing                          | Psychology or AP Psychology         | AP Statistics                         |
| Business Enterprise                | AP Environmental Science            | World Languages                       |
|                                    |                                     | Career Internship                     |
|                                    |                                     | Youth Apprenticeship: Finance         |

# FINANCE

## Career Options FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Bill & Account Collector  
Brokerage Clerk  
Cashier

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Accountant	Brokerage Clerk
Claim Adjuster	Financial Institution Manager
Insurance Agent	Investigator & Adjustor
Loan Officer	Personal Property Appraiser

## BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Accountant	Actuary
Auditor	Brokerage Clerk
Business & Industry Consultant	Controller
Consultant	Credit Card Operations Manager
Credit Analyst	Investment Advisor
Insurance Underwriter	

### Related Co-Curricular, Student Organizations & Activities:

AFS	Math Team
FBLA	Model UN
Computer Team	Community Service
Student Council	
Forensics	



## Government & Public Administration

### *Government in Wisconsin*

*includes:*

*Executing governmental functions to include: national security; foreign service; planning, revenue, & taxation; regulation; and management and administration at the local, state, and federal levels.*

### Interests and Abilities

#### Activities that describe what I like to do:

- Be involved in politics
- Negotiate, defend, and debate ideas and topics
- Plan activities and work cooperatively with others
- Work with details
- Perform a variety of duties that may change often
- Analyze information and interpret it to others
- Travel and see things that are new

#### Personal qualities that describe me:

- Good communicator
- Competitive
- Service minded
- Organized
- Problem solver

#### School subjects that I like:

- Government
- Language Arts
- History
- Math
- Foreign Language

#### Pathways in this cluster

- **Governance**
- **National Security**
- **Foreign Service**
- **Planning**
- **Revenue & Taxation**
- **Regulation**
- **Public Management & Administration**

### Recommended Courses for this Cluster:

American Government  
 AP Government & Politics  
 AP Comparative Government & Politics  
 Fundamentals of Speech Communication  
 Journalism  
 World Language  
 Current Issues

Sociology  
 20th Century Conflicts  
 Psychology  
 AP Psychology  
 AP World History  
 Ancient Civilization  
 Economics or AP Economics  
 Honors Econ & Finance  
 AP US History  
 US History

Global Studies  
 AP Human Geography  
 Business Enterprise I  
 Marketing & International Business  
 Digital Media  
 Microsoft Office  
 Accounting  
 College Accounting

Math through Algebra II  
 Probability & Statistics  
 AP Statistics  
 Environmental Science  
 AP Environmental Science  
 Introduction to Theatre  
 Acting

# GOVERNMENT & PUBLIC ADMINISTRATION

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Mail Carrier	Postal Clerk Drivers	License Examiner
License Clerks	Special Forces	Infantry Forces
Mail Handling Machine Operator		

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Coroner	City Planning Aid	Building Inspector
Title Examiner	Accountant	Association Executive
Translator/Interpreter Inspector	Postmaster	Transportation

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Legislator	City Manager	Aviation Security Specialist
Equal Opportunity	Lawyer	Political Scientist
Urban Planner	Accountant	Infantry Officer
Apprenticeship Specialist	Consultant	Special Operations Officer
	Emergency Management Specialist	

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology, Systems, Safety-Health-Environment, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills, Fiscal Responsibilities

#### Related Co-Curricular, Student Organizations & Activities:

FBLA	Model UN	Cedarial	Drama/Theater Club
Student Council	NHS	Smart Team	Thespian Society
Forensics	AFS	LEAD	
Bridge Builders	Common Sense		
National Honor Society	Community Service		



## Interests and Abilities

### Activities that describe what I like to do:

- Work under pressure
- Help sick people and animals
- Make decisions based on logic and information
- Participate in health and science classes
- Respond quickly and calmly in emergencies
- Work as a member of a team
- Follow guidelines precisely and meet strict standards of accuracy

### Personal qualities that describe me:

- Compassionate and caring
- Good at following directions
- Conscientious and careful
- Patient
- Good listener

### School subjects that I like:

- Biology
- Chemistry
- Math
- Health
- Language Arts

### Pathways in this cluster

- **Therapeutic Services**
- **Diagnostic Services**
- **Health Informatics**
- **Support Services**
- **Biotechnology Research & Development**

***Health Science in Wisconsin includes:  
Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research & development.***

## Recommended Courses for this Cluster:

Intro to Text/Block Based Programming	Anatomy & Physiology 1 & 2	Robotics
AP Computer Science	Biology	Lifetime Wellness
Fundamentals of Speech Communication	AP Biology	Lifeguard Training
Sociology	Organic Chemistry	Strength Training & Conditioning 1&2
Psychology	Chemistry	Probability & Statistics
AP Psychology	AP Chemistry	AP Statistics
World Language	Physics	Math Through Algebra 2 (minimum)-depends on field. Some may benefit through AP
Child Development I & II	AP Physics	Youth Apprenticeship: Health Science
Beginning, Advanced, & International Foods	PLTW: Biomedical Technology	
Health Careers Exploration	Zoology & Botany	
	Environmental Science	
	AP Environmental Science	

**\*\*PARTICIPATE IN THE CHS NURSING REGIONAL CAREER PATHWAY\*\***

# HEALTH SCIENCE

## Career Options FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Certified Nursing Assistant  
Clerk  
Food Service Worker  
Hospital Admitting

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Emergency Medical Technician	Home Health Aide
Massage Therapist	Physical Therapy Aide
Radiology Technologist	Registered Nurse
Surgical Technician	Translator and Interpreter
Ultrasound Technician	

## BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Athletic Trainer	Chiropractor	Nurse Practitioner
Dentist	Dietician	Radiation Therapist
Occupational Therapist	Pharmacist	Physical Therapist
Primary Care Physician	Psychiatrist	Laboratory Scientist
Surgeon		

## CLUSTER KNOWLEDGE & SKILLS

Academic foundation, communications, systems, employability skills, legal responsibilities, Ethics, Safety Practices, Teamwork, Health Maintenance Practices, Technical Skills, Information Technology Applications.

### Related Co-Curricular, Student Organizations & Activities:

Athletics	Best Buddies
Forensics	Environmental Club
Community Service	LEAD
SMART Team	Future Medical and Biomedical Professionals Club



## **Hospitality & Tourism in Wisconsin**

**includes:**

***The management, marketing and operations of restaurants and other food service, lodging, attractions, and recreation events and other travel-related services.***

### **Interests and Abilities**

#### **Activities that describe what I like to do:**

- Investigate new places and activities
- Work with all ages and types of people
- Organize activities in which other people enjoy themselves
- Have a flexible schedule
- Help people make up their minds
- Communicate easily, tactfully and courteously
- Learn about other cultures

#### **Personal qualities that describe me:**

- Tactful
- Self-motivated
- Works well with others
- Outgoing
- Slow to anger

#### **School subjects that I like:**

- Language Arts/Speech
- Foreign Language
- Social Sciences
- Marketing
- Food Service

#### **Pathways in this cluster**

- **Restaurant & Food / Beverage Services**
- **Lodging**
- **Travel & Tourism**
- **Recreation, Amusements, and Attractions**

### **Recommended Courses for this Cluster:**

Math through Algebra 2  
Fundamentals of Speech  
Communication  
20th Century Conflicts  
AP World History  
Current Issues  
AP Human Geography  
AP Art History  
Technical Theatre  
Commercial Art

US History or AP US History  
Economics or AP Economics  
Honors Econ & Finance  
AP Government & Politics  
Psychology or AP Psychology  
Business Enterprise  
Marketing & International  
Business  
Intro to College Business  
Sports & Entertainment  
Management

Digital Media  
Business Capstone  
Desktop Publishing  
Career Internship  
Cultural Art  
Digital Photography  
Advanced Photography  
Calligraphy  
AP Environmental Science

Foods Courses  
Performance Music  
Courses  
World Languages  
Youth Apprenticeships:  
Hospitality & Tourism



# HOSPITALITY & TOURISM

## Career Options FROM HIGH SCHOOL

### *On-the-job training and/or minimal experience*

Baggage Porter & Bellhop	Cake Decorator	Concierge
Day Worker	Food Attendant	Furniture Refinisher
Gaming Change Person & Usher	Booth Cashier	Guide
	Wardrobe & Dressing	Room Attendant

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

### *Community college, technical college, apprenticeship, experience*

Club Manager	Conference Planner	Food Service Supervisor
Household Manager	Taxidermist	Motel & Hotel Manager
Recreation Director	Restaurant Manager	Translator (Interpreter)

## BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

### *Colleges/Universities*

Archivist	Coaches	Conservation Technician
Curator	Historian	Park Ranger
Recreation Director	Theatre Manager	Translator/Interpreter
Zookeeper	Hotel Manager	

## CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health -Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

### **Related Co-Curricular, Student Organizations & Activities:**

Model UN	AFS
FBLA	Peer Tutors
Bridge Builders	Best Buddies
Cedarial	Art Club
Community Service	



## ***Human Services in Wisconsin***

***includes:***

***Preparation individuals for  
employment in career pathways that  
relate to families and human needs.***

### **Interests and Abilities**

#### **Activities that describe what I like to do:**

- Care about people, their needs, and their problems.
- Participate in community services and/or volunteering.
- Listen to other people's viewpoints.
- Help people be at their best.
- Work with people from preschool age to old age.
- Think of new ways to do things.
- Make friends with different kinds of people.

#### **Personal qualities that describe me:**

- Good communicator/good listener
- Caring
- Non-materialistic
- Uses intuition and logic
- Non-judgmental

#### **School subjects that I like:**

- Language Arts
- Psychology/Sociology
- Family and Consumer Sciences
- Finance
- World Language

#### **Pathways in this cluster**

- **Early Childhood Development & Services**
- **Counseling & Mental Health Services**
- **Family & Community Services**
- **Personal Care Services**
- **Consumer Services**

### **Recommended Courses for this Cluster:**

Math through Algebra 2  
Fundamentals of Speech  
Communication  
Biology & AP Biology  
Economics  
AP Economics  
Honors Econ & Finance  
Lifetime Wellness

Chemistry  
Organic Chemistry  
Anatomy & Physiology 1&2  
20th Century Conflicts  
Foods Courses  
Outdoor Education  
Child Development 1&2  
Strength Training 1&2

Performance Music  
Courses  
Psychology  
AP Psychology  
Sociology  
Current Issues  
Accounting

Probability & Statistics  
AP Statistics  
Intro to Text/Block Base  
Programming  
Personal Finance &  
College Personal Finance  
Youth Apprenticeship:  
Health Science

# HOSPITALITY & TOURISM

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Aerobics Instructor  
Crossing Guard  
Household Cook  
Nanny

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Community Organization Worker	Cosmetologist
Funeral Director	Institutional Cook
Nail Technician	Preschool Teacher
Shoe Repairer	Skin Care Specialist

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Dietician	Investment Advisor
Placement Counselor	Psychiatrist
Psychologist	School Counselor
Sociologist	Social Worker
Vocational Rehab Counselor	Athletic Trainer
Personal Trainer	

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health-Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

#### Related Co-Curricular, Student Organizations & Activities:

Peer Tutor	Student Council	Community Service	Future Medical and Biomedical Professionals Club
Bridge Builders	Environmental Club	LEAD	
Debate	Forensics	T3	
FBLA	Best Buddies	GSA	



**Information Technology  
in Wisconsin  
includes:**

***Linking IT occupations framework  
for entry level, technical, and  
professional careers related to the  
design, development, support, and  
management of hardware, software,  
multimedia, and systems integration  
services.***

## Interests and Abilities

### Activities that describe what I like to do:

- Work with computers.
- Reason clearly and logically to solve complex problems.
- Use machines, techniques, and processes.
- Read technical materials and diagrams and solve technical problems.
- Adapt to change.
- Play video games and figure out how they work.
- Concentrate for long periods without being distracted.

### Personal qualities that describe me:

- Logical/analytical thinker
- See details in the big picture
- Persistent
- Good concentration skills
- Precise and accurate

### School subjects that I like:

- Math
- Science
- Computer Tech/Applications
- Communications
- Graphic Design

### Pathways in this cluster

- Network Systems
- Information Support & Services
- Programming and Software Development
- Web & Digital Communications
- Cybersecurity

## Recommended Courses for this Cluster:

Desktop Publishing  
Math through Algebra 2  
Digital Media  
Microsoft Office  
Intro Text/Block Base  
Programming  
AP Computer Science  
AP/PLTW Computer  
Principles

Cybersecurity  
AP Statistics  
Probability & Statistics  
Commercial Art & Graphic  
Design  
Intro to College Business  
Digital Photography  
Advanced Photography

Business Enterprise  
Marketing & International  
Business  
All Performance Music  
Courses  
PLTW: Intro to Engineering  
Design  
PLTW: Principles of  
Engineering

Economics  
AP Economics  
Honors Econ & Finance  
Psychology  
AP Psychology  
Physics  
AP Physics  
Youth Apprenticeship:  
Information Technology

# INFORMATION TECHNOLOGY

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Careers in this field require more than minimal experience or on-the-job training

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Computer Programmer	Computer Support Specialist
Computer Systems Analyst	Data Communications Analyst
Tool Programmer	Webmaster

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Animator	Computer Engineer
Computer Network Coordinator	Database Administrator
Illustrator	Scientific & Engineering Programmer
Software Engineer	Webmaster

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health-Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

#### **Related Co-Curricular, Student Organizations & Activities:**

Art Club	Computer Team
Engineering Club	Chess Club
FBLA	SMART Team
Stage Crew	eSports Club
Community Service	Robotics Team



**Law, Public Safety,  
Corrections, & Security  
in Wisconsin**

**includes:**  
*Planning, managing, and providing  
legal, public safety, protective services  
and homeland security, including  
professional and technical support  
services.*

**Interests and Abilities**

**Activities that describe what I like to do:**

- Work under pressure or in the face of danger
- Make decisions based on my own observations
- Interact with other people
- Be in positions of authority
- Respect rules and regulations
- Debate and win arguments
- Observe and analyze people's behaviour

**Personal qualities that describe me:**

- Adventurous
- Dependable
- Community minded
- Decisive
- Optimistic

**School subjects that I like:**

- Language Arts
- Psychology / Sociology
- Government / History
- Law Enforcement
- First Aid / First Responder

**Pathways in this cluster**

- Correction Services
- Emergency & Fire Management Services
- Security & Protective Services
- Law Enforcement Services
- Legal Services

**Recommended Courses for this Cluster:**

Psychology  
AP Psychology  
Sociology  
AP Human Geography  
20th Century Conflicts  
AP World History  
Current Issues  
Ancient Civilization  
US History  
AP US History

American Government  
AP Government & Politics  
AP Comparative Government  
Biology  
AP Biology  
Organic Chemistry  
Anatomy & Physiology  
Physics  
Honors Physics  
AP Physics

Materials Science  
AP Environmental Science  
Health Careers  
Intro Text/Block Based  
Programming  
AP Computer Principles  
Microsoft Office  
Accounting  
College Accounting  
Intro to Theatre

Acting  
Math through Algebra 2  
World Language  
Digital Photography  
Advanced Photography  
Performance Music  
courses  
Lifetime Wellness  
Outdoor Education  
Lifeguard Training

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Correctional Officer  
Crossing Guard  
Dispatcher  
Parking Enforcement Officer  
Security Guard

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Bailiff	Court Reporter	Firefighter
Emergency Medical Technician		Legal Secretary
Paralegal Assistant	Park Ranger	Police Officer
Private Detective		

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Adjudicator	Arbitrator	FBI Agent
Judge	Judicial Law Clerk	Lawyer
Park Ranger	Probation and Parole Officer	
Forensic Science Technician		

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health-Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

#### Related Co-Curricular, Student Organizations & Activities:

Monitors	Peer Tutoring	Community Service	NHS
Athletics	Forensics	Best Buddies	Environmental Club
Student Council	Bridge Builders	T3	SMART Team
Debate	Model UN	Common Sense	Future Medical and Biomedical Professionals Club





***Manufacturing  
in Wisconsin  
includes:***

***Planning, managing, and performing  
the processing of materials into  
intermediate or final products and  
related professional and technical  
support activities such as production  
planning and control, maintenance,  
and manufacturing/process  
engineering.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Work with my hands and learn that way.
- Put things together.
- Do routine, organized and accurate work.
- Perform activities that produce tangible results
- Apply math to work out solutions.
- Use hand and power tools and operate equipment/machinery.
- Visualize objects in three dimensions from flat drawings.

**Personal qualities that describe me:**

- Practical
- Observant
- Physically active
- Step-by-step thinker
- Coordinated

**School subjects that I like:**

- Math-Geometry
- Chemistry
- Trade and industry courses
- Physics
- Language Arts

**Pathways in this cluster**

- **Production**
- **Manufacturing Production Process Development**
- **Maintenance, Installation & Repair**
- **Quality Assurance**
- **Logistics & Inventory Control**
- **Health, Safety & Environmental Assurance**

**Recommended Courses for this Cluster:**

Intro to Engineering & Manuf. Tech.  
Wood Technologies 1, 2, & Capstone  
Metals Manufacturing  
Automated Manuf. Tech.  
Adv. Manuf. & Design  
PLTW: Intro to Engineering  
PLTW: PRinciples of Engineering  
PLTW: Engineering & Design  
Robotics & Automation 1

Chemistry  
AP Chemistry  
Environmental Science  
AP Environmental Science  
Physics  
Honors Physics  
AP Physics

Current Issues  
Materials Science  
Technical Theatre  
World Language  
Math through Algebra 2  
Probability & Statistics  
AP Statistics

Fashion Sewing  
Adv. Fashion Sewing  
Fashion Merchandising  
Jewelry Design  
Sculpture

**\*\* PARTICIPATE IN THE CHS ADVANCED MANUFACTURING TECHNOLOGY REGIONAL CAREER PATHWAY\*\***

# MANUFACTURING

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Apparel & Home Furnishings	Dyer
Brush Painter	Engraver
Hand Worker	Oil Well Driller
Order Filler	Production and Planning Clerk
Production Assembler	Tire Builder

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Apparel Pattern Maker	Combination Welder
Computer Technician	Electrical Appliance Repair
Electric Motor Technician	Locksmith
Musical Instrument Repairer	Quality Control Technician
Tool and Die Maker	

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Communications Operations	Manager
Electrical Engineer	Electronic Engineer
Engineering Manager	Environmental Engineer
Industrial Engineer	Mechanical Engineer
Occupational Health & Safety	Inspector
Production Supervisor	

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health-Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

#### **Related Co-Curricular, Student Organizations & Activities:**

Engineering Club	SMART Team	Environmental Club
Math Team	Community Service	Robotics Team
Computer Team/Club		



***Marketing, Sales & Service  
in Wisconsin  
includes:***

***Planning, managing, and performing  
marketing activities to reach  
organizational objectives.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Shop and go to the mall.
- Be in charge.
- Make displays and promote ideas.
- Give presentations and enjoy public speaking.
- Persuade people to buy products or to participate in activities.
- Communicate my ideas to other people.
- Take advantage of opportunities to make extra money.

**Personal qualities that describe me:**

- Enthusiastic
- Competitive
- Creative
- Self-motivated
- Persuasive

**School subjects that I like:**

- Language Arts
- Math
- Business Education/Marketing
- Economics
- Computer Applications

**Pathways in this cluster**

- **Professional Selling**
- **Merchandising**
- **Marketing Communications**
- **Marketing Management**
- **Marketing Research**

**Recommended Courses for this Cluster:**

Into to College Business	AP Human Geography	World Language	Materials Science
Digital Media	Economics & AP Economics	Accounting	Math through Algebra 2
Microsoft Office	Honors Econ & Finance	College Accounting	American Government
Marketing & International Business	Fundamentals of Speech Communication	Probability & Statistics	AP Government & Politics
Business Enterprise	Intro to Text/Block Base Programming	AP Statistics	AP Comparative Government
Desktop Publishing	AP Computers	Digital Photography	Journalism
Current Issues	Environmental Science	Advanced Photography	Performance Music Courses
20th Century Conflicts	AP Environmental Science	Commercial	Personal Finance
		Art/Graphic Design	College Personal Finance

# MARKETING, SALES & SERVICE

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Antique/Collectible Dealer	Cashier	Classified Ad Clerk
Counter Clerk	Newsvendor	Street Vendor
Telemarketer	Wedding Planner	
Customer Service Representative		

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Advertising Layout Designer	Auctioneer
Advertising Sales Representative	Buyer
Auto Salesperson	Purchasing Manager
Real Estate Agent	

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

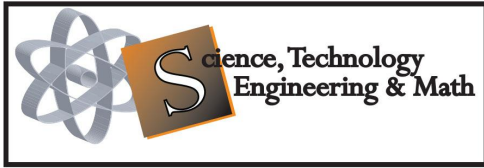
Advertising Account Executive	Advertising Manager
Business Agent	Marketing Manager
Public Relations Manager	Purchasing Agent
Research Analyst	

### CLUSTER KNOWLEDGE & SKILLS

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety-Health-Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, Technical Skills

#### Related Co-Curricular, Student Organizations & Activities:

Cedarial	Forensics
Community Service	NHS
FBLA	Student Council
Debate	Common Sense



**Science, Technology,  
Engineering & Mathematics  
in Wisconsin**

**includes:**

***Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Interpret formulas.
- Find answers to questions.
- Work in a laboratory.
- Figure out how things work and investigate new things.
- Explore new technology.
- Experiment to find the best way to do something.
- Pay attention to details and help things be precise.

**Personal qualities that describe me:**

- Detail oriented
- Inquisitive
- Objective
- Methodical
- Mechanically inclined

**School subjects that I like:**

- Math
- Science
- drafting/Computer Aided Drafting
- Electronics/Computer Networking
- Technical Classes/Technology Education

**Pathways in this cluster**

- **Engineering & Technology**
- **Science & Math**

**Recommended Courses for this Cluster:**

Math through AP Calculus  
 Probability & Statistics  
 AP Statistics  
 All Chemistry Courses  
 AP & Environmental Science  
 All Physics Course  
 Biology/AP Biology  
 Astronomy  
 Geology  
 Zoology & Botany  
 Anatomy & Physiology 1&2  
 Youth Apprenticeship: Stem

Intro to Text/Block Base Programming  
 AP Computer Science  
 World Language  
 Fundamentals of Speech Communication  
 Digital Media  
 Intro to Engineering & Manufacturing  
 AP Human Geography  
 PLTW: Intro to Engineering  
 PLTW: Principles of Engineering  
 PLTW: Civil Engineering & Architecture  
 PLTW: Engineering Design & Development  
 Advanced Auto Desk Inventor

Wood Technologies 1 & 2  
 Adv. Wood Tech. Capstone  
 Architectural Drafting  
 Metals & Manufacturing Technologies  
 Automated Manufacturing Technologies  
 Adv. Manufacturing & Design Capstone  
 Automation & Robotics 1  
 Interior Design  
 Commercial Art

**\*\* PARTICIPATE IN THE CHS ADVANCED MANUFACTURING TECHNOLOGY REGIONAL CAREER PATHWAY\*\***

# SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Statistical Clerk

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Biological Technician  
Chemical Technician  
Civil Engineering Technician  
Environmental Technician  
Mathematical Technician

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Aerospace Engineer	Anthropologist	Archaeologist
Astronomer	Biomedical Engineer	Chemical Engineer
Civil Engineer	Computer Engineer	Electrical Engineer
Geologist	Industrial Engineer	Mathematician
Mechanical Engineer	Metallurgist	Mining Engineer
Nuclear Engineer	Physicist	Solar Engineer
Statistician		

#### Related Co-Curricular, Student Organizations & Activities:

Engineering Club	Math Team	Chess Club
Environmental Club	eSports Club	Community Service
SMART Team	Robotics Team	Future Medical and Biomedical Professionals Club
Computer Team/Club		



**Transportation,  
Distribution & Logistics  
in Wisconsin  
includes:**

***Planning, management, and movement  
of people, materials, and goods by  
road, pipeline, air, rail and water and  
related professional and technical  
support services such as  
transportation infrastructure planning  
and management, logistics services,  
mobile equipment, and facility  
maintenance.***

**Interests and Abilities**

**Activities that describe what I like to do:**

- Travel.
- See well and have quick reflexes.
- Solve mechanical problems.
- Design efficient processes.
- Anticipate needs and prepare to meet them.
- Drive or ride.
- Move things from one place to another.

**Personal qualities that describe me:**

- Realistic
- Mechanical
- Coordinated
- Observant
- Planner

**School subjects that I like:**

- Math
- Trade and Industry courses
- Physical Sciences
- Economics
- Foreign Language

**Pathways in this cluster**

- **Transportation Operations**
- **Logistics Planning & Management Services**
- **Warehousing & Distribution Center Operations**
- **Facility & Mobile Equipment Maintenance**
- **Transportation Systems/Infrastructure Planning, Management & Regulation**
- **Health, Safety & Environmental Management**
- **Sales & Service**

**Recommended Courses for this Cluster:**

PLTW: Intro to Engineering	AP Human Geography	Materials Science	Intro to College Business
PLTW: Principles of Engineering	Global Studies	Chemistry	Sports & Entertainment Management
PLTW: Civil Engineering & Architecture	Economics	AP Chemistry	Marketing & International Business
Adv. Auto Desk Inventor	AP Economics	AP Biology	Fundamentals of Speech & Communication
Probability & Statistics	Honors Econ & Finance	Small Engines & Power Technologies	Commercial Art/Graphic Design
AP Statistics	Personal Finance	Transportation Technologies	
Math through PreCalculus	College Personal Finance	Transportation Capstone	
	Sociology	Physics	
	Current Issues	AP Physics	
	Environmental Science	World Languages	
	AP Environmental Science		



# TRANSPORTATION, DISTRIBUTION & LOGISTICS

## Career Options

### FROM HIGH SCHOOL

*On-the-job training and/or minimal experience*

Bus Driver	Delivery Driver
Highway Maintenance Worker	Reservation and Ticket Clerk
Service Station Attendant	Shipping and Receiving Clerk
Traffic Clerk	Deckhand

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

*Community college, technical college, apprenticeship, experience*

Aircraft Mechanic	Auto Body Technician
Automobile Painter	Cartographic Technician
Diesel Technician	Motorcycle Technician
Railroad Conductor	Security Consultant
Travel Agent	Flight Attendant

### BACHELORS, Pre-PROFESSIONAL or HIGHER DEGREE

*Colleges/Universities*

Airline Pilot	Air Traffic Controller	Astronaut
Environmentalist	Locomotive Engineer	Mining Manager
Mechanical Engineer	Public Health Sanitarian	
Travel Agency Manager		


#### Related Co-Curricular, Student Organizations & Activities:

Engineering Club	Community Service
Computer Team	Robotics Team
Environmental Club	
Math Team	

# ART

The Cedarburg High School Visual Arts Department is committed to the belief that art and life are inseparable. Involvement in the arts enhances students' creative problem solving and communication skills, which are integral to their intellectual development. Our goal is to assist students, who have a universal need for artistic/creative expression and communication, in achieving a lifelong appreciation for the arts and the cultural diversity provided by exposure to the arts, while acquiring the skills necessary for creative independence.

Grade 9	Grade 10	Grade 11	Grade 12
2D Drawing & Design Gr. 9-12, .5 credit			
3D Design Gr. 9-12, .5 credit			
	Jewelry Design Gr. 10-12, .5 credit P		
	Drawing Gr. 10-12, .5 credit P		
	Intro Ceramics Gr. 10-12, .5 credit P		
	Adv. Ceramics Gr. 10-12, .5 credit P		
	Sculpture Gr. 10-12, .5 credit P		
		Watercolor Gr. 11-12, .5 credit P	
		Commercial Art/Graphic Design Gr. 11-12, 1 credit P	
		Painting Gr. 11-12, 1 credit P	
			AP Studio Art Gr.12, 1 credit P
			Independent Study-Art Gr.12, .5 credit P
		Digital Photography Gr. 11-12, .5 credit	
		Adv. Photography Gr. 11-12, .5 credit P	
		AP Art History Gr. 11-12, 1 credit	
Tech. Theatre Gr. 9-12, .5 credit			
	Cultural Art Gr. 10-12, .5 credit		
	Calligraphy Gr. 10-12, .5 credit		

 No Pre Req.

**2D DRAWING & DESIGN 6110****Credit:** ½ **Level:** 9,10,11,12**PREREQUISITE:** None**APPROXIMATE FEES:** \$15.00

**COURSE DESCRIPTION:** This class gives students a comprehensive background in the two major artistic areas of drawing and design. Students develop skills in observation, eye/hand coordination, and drawing techniques. They are taught artistic vocabulary, color theory, and the principles of two-dimensional design. This class, along with 3-Dimensional Design (6120), provides a foundation for further study in art.

**3D DESIGN 6120****Credit:** ½ **Level:** 9,10,11,12**PREREQUISITE:** None**APPROXIMATE FEES:** \$15.00

**COURSE DESCRIPTION:** This class develops students' three-dimensional thinking ability. Students receive instruction in the use of tools, materials, and techniques to solve three-dimensional problems. Students are taught to develop skills in observation and eye/hand coordination. Projects include work in low and high relief and in additive and subtractive sculptural formats.

**TECHNICAL THEATRE:  
SET DESIGN & BUILD 6125****Credit:** 1/2 **Level:** 9,10,11,12**PREREQUISITE:** None**APPROXIMATE FEES:** \$35 each semester

**COURSE DESCRIPTION:** This course is designed for students with a desire to learn the fundamentals of theatrical set design. Students will design and construct scene flats, platforms, and show specific set pieces that will be used in the current Fall play and Winter musical. Students will learn safe and proper use of tools and equipment as well as design concepts including forced perspective, color, and painting techniques and application. In addition, students will explore project management skills, stage management, and creating a materials list and budget with an opportunity to participate as assistant technical director, stage manager, or crew member on current and future productions. Participation in current production (Fall Play, Winter Musical) is expected.

**CULTURAL ART 6130****Credit:** ½ **Level:** 10, 11, 12**PREREQUISITE:** None**APPROXIMATE FEES:** \$30.00

**COURSE DESCRIPTION:** The Cultural Art course is for students who have an interest in learning about and then creating the artwork of various cultures through the examination of their art/craft traditions. Studio projects may include: bead-weaving, carving, dyeing, mosaics, clay work, etc.

**CALLIGRAPHY 6140****Credit:** ½ **Level:** 10,11,12**PREREQUISITE:** None**APPROXIMATE FEES:** \$25.00

**COURSE DESCRIPTION:** Explore calligraphy as an art form through experiences in pen and ink lettering, creation of decorative first letters, flourishing, letter embellishment, and borders. A portion of this course will focus on applying the above lettering skills for personal enjoyment and job-related opportunities.

**DRAWING 6150****Credit:** ½ **Level:** 10,11,12**PREREQUISITE:** 2-Dimensional Drawing & Design (6110); 3-Dimensional Design (6120)**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** Drawing builds upon skills learned in 2-Dimensional Drawing & Design. Students further develop skills in observation and technique by drawing from the natural and the abstract. Drawing focuses on exploration of different mediums, including ink, charcoal, oil, pastel, etc. Emphasis is placed on "product versus process." This course is required for students planning on enrolling in painting.

**INTRODUCTORY CERAMICS 6170****Credit:** ½ **Level:** 10,11,12**PREREQUISITE:** 2-Dimensional Drawing & Design (6110); 3-Dimensional Design (6120)**APPROXIMATE FEES:** \$25.00

**COURSE DESCRIPTION:** In this class students will learn terminology and properties of clay. They will hand-build clay projects, utilizing several processes such as slab work, hollow forms and carving. Numerous glazing, painting and finishing techniques will be addressed. Works created will range from decorative to utilitarian in nature.

**ADVANCED CERAMICS 6171**

**Credit:** ½                      **Level:** 10,11,12  
**PREREQUISITE:** B+ or higher in Ceramics (6170)  
**APPROXIMATE FEES:** \$25.00

**COURSE DESCRIPTION:** Advanced Ceramics will provide students with a continued focus in the multitude of techniques available in clay work. Advanced hand and slab building techniques are pursued with a foray into mixed media clay work. Progression of skill building in the area of wheel work, clay sculpture and clay portraiture are emphasized. Students will also participate in an exciting form of clay firing called the Raku Firing technique.

## **SCULPTURE** **6172**

**Credit:** ½                      **Level:** 10,11,12  
**PREREQUISITE:** 3D Design (6120) or Wood Technologies 1 (8360)  
**APPROXIMATE FEES:** \$25.00

**COURSE DESCRIPTION:** Sculpture is a semester course designed for students to continue expanding on the techniques of rendering in a 3-dimensional space that they developed in the 3D Design foundation class. Students will explore combinations of media such as metal, wood, wire, stone, plaster, cement, clay, foam, cloth, etc. in the resolution of 3-D design problems. Historical and contemporary developments in sculpture will be explored as the students continue to grow into their understanding of the technical aspects and terminology associated with 3-dimensional design. Students will learn the properties of various sculptural media and how to manipulate them with traditional and innovative methods. Emphasis will be on developing each student's awareness of skills and safe practices of the sculpture studio while expanding their artistic awareness and developing their own personal aesthetics as they improve their technical abilities.

## **JEWELRY DESIGN** **6180**

**Credit:** ½                      **Level:** 10,11,12  
**PREREQUISITE:** 2–Dimensional Drawing & Design (6110); 3–Dimensional Design (6120)  
**APPROXIMATE FEES:** \$35.00

**COURSE DESCRIPTION:** This course focuses on both the design and creation of a variety of different types of jewelry and metalsmithing techniques. Students will learn enameling, riveting, and torchwork (solder and fusing) while exploring jewelry-making techniques using copper and sterling silver, fibers, beads, and a variety of other materials. Creativity, experimentation, and craftsmanship are emphasized.

## **WATERCOLOR** **6190**

CHS COURSE GUIDE [Table of Contents](#)

**Credit:** ½                      **Level:** 11,12  
**PREREQUISITE:** 2–Dimensional Drawing & Design (6110); 3–Dimensional Design (6120)  
**APPROXIMATE FEES:** \$25.00

**COURSE DESCRIPTION:** This class builds a solid foundation in the elements of transparent watercolor through a comprehensive program of practice and practical application. Students develop skills in working with media, color mixing, and color theory. Students express themselves creatively as they develop their techniques and composition skills.

## **PAINTING** **6220**

**Credit:** 1                      **Level:** 11, 12  
**PREREQUISITE:** 2–Dimensional Drawing & Design (6110); 3–Dimensional Design (6120); Drawing (6150)  
**APPROXIMATE FEES:** \$35.00 per semester (\$70.00 per year)

**COURSE DESCRIPTION:** Painting is an artistic means of expression. In this class students develop skills in composition and color theory while working with oil paint and acrylics. In the first semester students learn painting techniques and art history as it applies to painting; part of the second semester students work independently exploring areas of landscape, figure, and abstract expression, while developing their own style. Painting or Commercial Art must be taken as a junior to take AP Studio as a senior.

## **COMMERCIAL ART/ GRAPHIC DESIGN** **6230**

**Credit:** 1                      **Level:** 11,12  
**PREREQUISITE:** 2–Dimensional Drawing & Design (6110); 3–Dimensional Design (6120)  
**APPROXIMATE FEES:** \$20.00 per semester (\$40.00 per year)

**COURSE DESCRIPTION:** The Commercial Art class gives students an overview of commercial art careers. Students utilize Adobe Photoshop® and Illustrator® to creatively solve design problems. The class simulates a commercial art studio; students work on projects for the community and the school in a professional manner. Projects vary according to clients' needs, and may include posters, menus, T-shirt designs, logos, etc. See page 12 regarding transcribed credit of the course to area colleges (6 college credits). Painting or Commercial Art must be taken as a junior to take AP Studio as a senior. ***This course is aligned with MATC for 6 transcribed credits if a student receives a grade of B or better.***

## **DIGITAL PHOTOGRAPHY 6240**

**Credit:** ½      **Level:** 11,12

**PREREQUISITE:** Must provide own digital camera with MANUAL settings

**APPROXIMATE FEES:** Base fee \$30

**NOTE:** Virtual students need to have a desktop or laptop for Adobe program downloads since this can not be done on a chromebook.

**COURSE DESCRIPTION:** This course will provide students with an introduction of current digital photo technology as a fine art, documentary, and social media tool. Students will study both the basic technical and aesthetic qualities of digital photography, while using Adobe Photoshop for editing and enhancing their images. Through the use of Photoshop, digital cameras, scanners and printers, students will explore the world of the “electronic darkroom”. Prior computer experience is recommended, but not required. Upon successful completion of this course, students can enroll in the Advanced Photography course. ***This course is aligned with MATC for 3 transcribed credits if a student receives a grade of B or better.***

## **ADVANCED PHOTOGRAPHY 6241**

**Credit:** ½      **Level:** 11, 12

**PREREQUISITE:** Photoshop and Digital Photography (6240) students must receive a grade of B+ or better in Digital Photo. Students will explore digital photography and Adobe Photoshop techniques as an art form, furthering the skills they acquired in Digital Photo class.

**APPROXIMATE FEES:** \$30.00

**COURSE DESCRIPTION:** Advanced Photography is for juniors and seniors who have taken a semester of Digital Photography and want to continue with more advanced skill in Adobe Photoshop. This course focuses on more experimental photography, photography as an art form, and furthering students’ use of photography/Photoshop as a tool of visual communication and self-expression.

## **ADVANCED PLACEMENT STUDIO ART: DRAWING/PAINTING, 2D DESIGN OR 3D DESIGN PORTFOLIO 6250**

**Credit:** 1(Weighted grade)      **Level:** 12

**PREREQUISITE:** teacher recommendation; must take Painting (6220), Commercial Art/Graphic Design (6230), Sculpture (6172), **OR** Advanced Ceramics (6171) as a junior

**APPROXIMATE FEES:** \$70.00 for supplies, plus \$91.00 for Portfolio submission (optional, but recommended)

**COURSE DESCRIPTION:** The Advanced Placement Studio Art course involves time and commitment. The program is intended for students pursuing art as a career. Students will be preparing a portfolio for entrance into art schools, colleges, or job interviews. The AP exam consists of a portfolio of work to be submitted to the College Board in May.

## **ADVANCED PLACEMENT ART HISTORY 6255**

**Credit:** 1      **Level:** 11,12

**PREREQUISITE:** Recommended that the student has received a grade of B+ or higher in the Social Studies class(es) they have taken in their sophomore and/or junior years.

**APPROXIMATE FEES:** \$72 for two volumes of a Course Slide Guide – A Companion Notetaking and Study Resource (optional, but recommended) and \$91 for AP Examination (optional, but recommended)

**COURSE DESCRIPTION:** AP Art History offers students an exciting opportunity to learn about art, artists, and artworks. Students will view and analyze architecture, sculpture, drawing, painting, and other art forms from the beginning of civilization through the post-modern era. Students will examine major areas of artistic expression from a variety of cultures and time periods. This class provides students with the tools for seeing and discussing art works from a critical and expressive standpoint. Students will develop a deep appreciation and sensitivity to various styles, cultures, and time periods. This course is designed to prepare students to take the AP College Board Art History exam.

## **INDEPENDENT STUDY - ART 6260**

**Credit:** ½      **Level:** 12

**PREREQUISITE:** open to grade 12 students who have passed all of their previous art classes at a grade of B or better, and have *signed approval* by the instructor at the time of scheduling

**APPROXIMATE FEES:** \$35 each semester


**COURSE DESCRIPTION:** Independent Study - Art is an upper level elective art course that runs concurrently with AP Studio Art. It is designed for highly motivated students who wish to expand their art skills and build a portfolio without the rigor of an AP Studio Art course. Students taking Independent Study - Art will establish goals for individual growth and exploration of their own interests and style. After discussing their goals, the instructor and

student will establish an expected number of projects/assignments along with approximate dates of completion. Independent study students work at their own pace, choose their own subjects, and are responsible for monitoring their own progress in terms of meeting the goals that they and the teacher establish for them at the beginning of each grading period. Students can take both a fall and spring semester of this course.



# BUSINESS & INFORMATION TECHNOLOGY

The mission of the Cedarburg High School Business and Information Technology Department is to help students prepare for the next step in life by assisting them in the development of knowledge and skills relating to business and technology. This is accomplished through the use of real-world projects and simulations that directly apply to society today.

Business Enterprise	1 cr	Available 9-12	
Digital Media	1 cr		
Accounting	1 cr		
Microsoft Office	.5 cr		
Desktop Publishing	.5 cr		
Leadership	.5 cr	10-12	
Sports & Entertainment Management	.5 cr		
Marketing & International Business	1 cr		
	Personal Finance	.5 cr	11-12
	Intro to College Business	1 cr #	
	Career Internship	.5 or 1 cr	
	College Accounting	.5 cr	
	College Personal Finance	.5 cr # ✓	12 Only
	Honors Econ & Finance	1 cr # ✓	
	Business Capstone	1 cr	

No Pre Req.    Pre Req.  
 # College Credit via CAPP  
 ✓ Meet Graduation Requirement

## MICROSOFT OFFICE 7210

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is designed as an introductory course available to freshmen through seniors interested in learning how to use the Microsoft Office Products. You will format and key Word documents, create documents in Publisher, organize spreadsheets using Excel, create presentations in PowerPoint, and create/organize databases using Access.

## DESKTOP PUBLISHING 7230

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**NOTE:**

**COURSE DESCRIPTION:** This course is designed to reinforce your knowledge of desktop publishing concepts, develop your understanding of one of the most powerful and currently used desktop software programs and improve your confidence and skill in creating publications. As you progress from simple to more complex projects using Adobe InDesign software you will improve your ability to develop



professional looking publications such as fliers, announcements, magazine covers, a personal calendar, and much more! You will have the opportunity to contribute to a variety of print jobs throughout the school and be able to produce items such as a t-shirt, decal, calendar, and more!

## **DIGITAL MEDIA 7260**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will learn how to produce, edit, and market a variety of digital media. Types of projects include digital shorts, live media, GIFs, podcasts, and more. Students will be able to successfully use a variety of production and editing hardware and software. Students will also be able to successfully tell a story using digital media. Some projects include: live streaming graduation, multi camera live streaming, social media event graphic creation, and more!

## **PERSONAL FINANCE 7310**

**Credit:** ½      **Level:** 11, 12

**PREREQUISITES:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Prepare for a debt free life! This course is your opportunity to learn how to avoid accumulating debt! Personal Finance explores topics such as: Savings Plans & Checking Accounts; Obtaining Credit; Buying a Car; Apartment Rental; Buying Life Insurance; doing long-term savings (retirement plans); and many other topics that will help you to manage your personal finances.

## **ACCOUNTING 7330**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**NOTE:** Students considering College Accounting should take this course during their freshmen, sophomore or junior year.

**COURSE DESCRIPTION:** Accounting is a life skill. It teaches students to think critically and systematically organize, maintain, and interpret financial records. Students will do accounting activities for a service business organized as a sole proprietorship and a merchandising business organized as a partnership. Students will learn double-entry accounting; the accounting equation; the use of "T" accounts; how to journalize transactions into general and special journals; how to post to general and subsidiary ledgers; how to

prepare financial statements; and do end of fiscal period work. This is accomplished through textbook activities done using the Excel program and taking field trips. Students will also use Quickbooks and Square register to provide electronic application of Accounting. Students will also experience Managerial accounting through the school store, concession stand, and in-class cost calculations.

## **COLLEGE ACCOUNTING 7335**

**Credit:** ½      **Level:** 11,12

**PREREQUISITE:** Accounting (7330); must meet college eligibility requirements to take for college credit.

**APPROXIMATE FEES:** None if not taken for college credit; approximately \$300 for 3 college credits (roughly a \$700 discount).

**NOTE:** Accounting 210. Participation in the CAPP program (UW-Oshkosh) is an individual option and requires a fee for the tuition payable to the university. Participants who successfully complete the course receive three college credits in addition to the high school credit earned if enrolled in.

**COURSE DESCRIPTION:** Accounting is a required course for all business majors in college. Take this opportunity to earn college credits in accounting while still in high school. Advance accounting concepts, theories, and principles are presented and applications are completed. Emphasis is given to the analysis and interpretation of financial activity, preparing and interpreting financial statements, and applying accounting theory in decision making. This course is offered in the Cooperative Academic Partnership Program (CAPP) through Lakeland University. The CAPP program offers secondary students an opportunity to earn high school credit while getting a head start on college degree requirements. The content of College Accounting is the same as that offered at Lakeland College in the CAPP program. This course may be taken with or without CAPP.

## **INTRODUCTION TO COLLEGE BUSINESS 7410**

**Credit:** ½      **Level:** 11,12

**APPROXIMATE FEES:** None if not taken for college credit; approximately \$300 for 3 college credits (roughly a \$700 discount).

**NOTE:** College credit available for students who meet UW-Oshkosh eligibility standards

**COURSE DESCRIPTION:** Enrolling in Introduction to College Business through UW-Oshkosh (UW-Oshkosh BUS 198: Introduction to Business) is

a convenient and affordable way for students to earn concurrent high school and college credit that will transfer to any college/university after high school. For more information please visit [www.uwosh.edu/capp](http://www.uwosh.edu/capp) or talk with Mrs. Kutz. This course is designed as an introductory course available to juniors and seniors interested in learning more about business. Students will be exposed to many different aspects of the world of business including economics, management, marketing, distribution, business formation, finance, etc. The class is very entrepreneurship based as students will complete a business plan of a business they create!

### **BUSINESS ENTERPRISE 7611**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is designed to provide a basic understanding of the essential elements of business including marketing, promotion, entrepreneurship, economics, leadership, communication and ethics just to name a few. The course will also introduce students to the fundamental management functions including planning, organizing, implementing and controlling. Students will complete a variety of small group projects including cereal creation, Chinook promotion project, and creating a new beverage. Students will also watch the TV show "The Apprentice" to illustrate terms and concepts from the class. Students will take part in their own Apprentice Challenge selling food during lunch to raise money for business scholarships. The Capstone Project for the class allows students manage their own restaurant via Virtual Business Restaurant Simulation. Students will also take a field trip to learn more about different careers within business. This course is a must for anyone interested in business!

### **SPORTS AND ENTERTAINMENT MANAGEMENT 7621**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is a specialized course for students with a career interest in the fields of sports and entertainment. It is designed to provide students with competencies in the areas of marketing, sales, promotions, communications and management through a project based approach. Students will also participate in running an event here at CHS. Depending on the season, students will play fantasy football or baseball. As a student enrolled in Sports and Entertainment Management, you are encouraged to

become a member of FBLA-DECA, which allows you to develop leadership skills, management and decision making skills.

### **MARKETING & INTERNATIONAL BUSINESS 7632**

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

**PREREQUISITE:** Business Enterprise

**APPROXIMATE FEES:** None

**NOTE:** This course is part of the Global Scholars certificate program.

**COURSE DESCRIPTION:** Marketing and International Business is an advanced course and a continuation to Business Enterprise. Marketing and International Business continues to allow students to work collaboratively with other students through project based assignments. Emphasis in this course is placed on marketing products and services to an end consumer as well as business from a worldwide perspective. Upon completion of this course students will know how to successfully reach target markets domestically and abroad. Emphasis will be placed on cultural influences, importing/exporting, trade relations, and the 4 P's of marketing. Projects could include: developing your own brand, pricing competitions, conducting business abroad share outs, and more. As a student enrolled in Marketing and International Business, you are encouraged to become a member of FBLA-DECA, which allows you to develop leadership skills, management and decision making skills.

### **BUSINESS CAPSTONE 7699**

**Credit:** 1      **Level:** 12

**PREREQUISITE:** Business Enterprise and Accounting **or** Introduction to College Business **or** see Mrs. Kutz for approval

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will take a hands on approach to their learning by running the school store. They will be able to apply their knowledge in a multitude of ways. Students will also directly benefit from the success of the school store by participating in **profit sharing (you can make \$\$\$)**. In addition, students will collaborate with other departments and business community members to create products to sell within the school store and complete individual projects to deepen their learning in areas of their interest. As a student enrolled in Business Capstone, you are encouraged to become a member of FBLA-DECA, which allows you to develop leadership skills, management and decision making skills.

## **CAREER INTERNSHIP 7500**

**Credit:** ½ or 1      **Level:** 11, 12  
**PREREQUISITE:** Approval by Mr. Nelson  
**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is offered to juniors and seniors who want to obtain experience in a potential career choice. The opportunities for placement depend upon the student's interests, as well as suitability and availability for voluntary (unpaid) involvement. Learning experiences may include assisting in a classroom, working at a nonprofit organization, obtaining valuable knowledge at a local business. Students often share similar experiences as college interns. Students will also meet in the classroom roughly once a month to learn about valuable employment skills like interviewing and positive work traits. Each student will meet with their advisor once a week to discuss their weekly written report and make plans for future activities. Students interested in this course must speak with Mr. Nelson prior to enrollment. It is highly recommended that students have placement prior to the start of the semester. Students have the option of taking Career Internship for one semester or the entire school year.

## **COLLEGE PERSONAL FINANCE 7510**

**Credit:** ½      **Level:** 12  
**REQUIRED COURSE:** This course, Honors Economics and Finance, Economics, or AP Economics required for graduation  
**NOTE:** College credit available for students who meet UW-Oshkosh eligibility standards  
This course does not satisfy any part of the three-credit Social Studies requirement  
**APPROXIMATE FEES:** None **if not** taken for college credit; approximately \$300 for 3 college credits (roughly a \$700 discount).

**COURSE DESCRIPTION:** Enrolling in College Personal Finance through UW-Oshkosh (UW-Oshkosh BUS 231: Personal Finance) is a convenient and affordable way for students to earn concurrent high school and college credit that will transfer to any college/university after high school. For more information please visit [www.uwosh.edu/capp](http://www.uwosh.edu/capp) or talk with Mrs. Kutz. This course is designed to prepare students to become a wise consumer. Units taught include Goal Setting, Careers, Taxes, Budgeting and Financial Records, Checking Accounts and Bank Services, Saving and Investing, Credit and Insurance. College Personal Finance also fulfills the District's Financial Literacy Requirement

## **HONORS ECONOMICS AND FINANCE 4401**

**Credit:** 1      **Level:** 12  
**REQUIRED COURSE:** This course College Personal Finance, Economics, or AP Economics required for graduation  
**NOTE:** College credit available for students who meet UW-Oshkosh eligibility standards  
This course satisfies ½ credit of the three-credit Social Studies requirement  
**APPROXIMATE FEES:** none **if not** taken for college credit; approximately \$300 for 3 college credits (roughly a \$700 discount).

**COURSE DESCRIPTION:** This course combines both the semester-long Economics and semester-long College Personal Finance courses into one year-long Honors Economics and Finance. The course is designed to provide enhanced coverage of the basic principles of Economics as well as the tenets (and UW-Oshkosh credit benefits) of College Personal Finance.

This two-semester course satisfies the ½ credit Personal Finance Graduation Requirement and offers the following:

The **Economics Semester** introduces students to a key discipline of the social sciences, the study of how individuals, firms, and societies choose to allocate their scarce resources. Students will develop a critical understanding of the economic way of thinking and an appreciation of the economic forces that shape human behavior and the global economy. Economics employs mathematics, statistics, and primary source data to examine important issues and to better understand how people make choices. Its dual micro and macro foci serve as a primer for college level economics.

The **Personal Finance Semester** is designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Personal Finance students will experience real scenarios and use strategies covered in the course to help them make sound financial decisions. Students will design personal and household budgets, demonstrate knowledge of finance, debt, and credit understanding for making informed personal financial decisions. College Personal Finance is aligned with UW-Oshkosh's CAPP program and provides the opportunity for academically able students to earn college and high school credits concurrently.

**LEADERSHIP** **7520****Credit:** ½ **Level:** 10, 11,12**PREREQUISITE:** None**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Leadership balances working on school and community projects with classroom activities that develop and improve leadership skills. The students will study the following topic areas: Trust, Team Building, Communication, Problem Solving, Decision Making, Goal Setting, Leadership Styles, Ethics, Diversity and Community Service. Group work challenges students to go beyond their perceived boundaries and to experience success on an individual and

group basis. A leadership skill certificate is offered upon successful completion of the certificate requirements.

# COMPUTER SCIENCE

## CHS COMPUTER SCIENCE COURSE PATHWAYS

WHERE TO START	WHERE TO CONTINUE
<p><b><u>Intro to Block-Based Programming</u></b></p> <ul style="list-style-type: none"> <li>- Semester Course (0.5 credit)</li> <li>- No prior experience required.</li> </ul> <p><b><u>Intro to Text-Based Programming</u></b></p> <ul style="list-style-type: none"> <li>- Semester Course (0.5 credit)</li> <li>- Prior programming experience required. <i>(Intro to Block-Based Programming, AP/PLTW, or consent of instructor.)</i></li> </ul> <p><b><u>AP Computer Science Principles</u></b></p> <ul style="list-style-type: none"> <li>- Full Year Course (1 credit)</li> <li>- No prior experience required.</li> </ul>	<p><b><u>No Prerequisite Required:</u></b> <i>(Take it at any time.)</i></p> <ul style="list-style-type: none"> <li>- <b>AP Computer Science Principles</b></li> </ul> <p><b><u>Prerequisite Required:</u></b> <i>You must have completed Intro to Text-Based Programming or AP Computer Science Principles in order to take any of the following.</i></p> <ul style="list-style-type: none"> <li>- <b>App Development</b> (one semester - 0.5 credit)</li> <li>- <b>Game Design</b> (one semester - 0.5 credit)</li> <li>- <b>Physical Computing</b> (one semester - 0.5 credit)</li> <li>- <b>AP Computer Science A</b> (full year - 1 credit)</li> <li>- <b>Cybersecurity</b> (one semester - 0.5 credit)</li> </ul>

### **INTRO TO BLOCK-BASE PROGRAMING**

**2610**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course provides an introduction to programming using block-based coding languages. Students will use Code.org's Game Lab and App Lab, online programming environments, where code is clicked and dragged in order to create animations and games. This course is designed to provide students an engaging, supportive first course in programming. 3D models and design will also be studied.

### **INTRO TO TEXT-BASE PROGRAMING**

**2620**

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

**PREREQUISITE:** Intro to Block-Based Programming(2610) or teacher consent, Algebra I or concurrent enrollment (2110)

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course provides an introduction to programming using a text-based language. Students learn Java and begin using an object-oriented approach. Topics include basic programming, control structures, one- and two-dimensional arrays, and other topics. For the last ¼ of the class, students will apply their Java skills in the Processing development environment to create an animation or game for a final project. While this is an introductory course, it is recommended that students have some basic



experience with computer programming if they decide to bypass Computer Concepts I and begin with Concepts II. Contact the instructor for further information.

## **APP DEVELOPMENT 2621**

**Credit:** ½                      **Level:** 10,11,12  
**PREREQUISITE:** Intro to Text-Based Programming(2620) or AP Computer Science Principles (8580)  
**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will work with Java and XML to create Android apps in Android Studio. In this development environment students will control the content, layout and interactivity of the app. In this course, students will spend approximately the first half of the course learning relevant skills and the second half developing a project of their choosing.

## **PHYSICAL COMPUTING 2622**

**Credit:** ½                      **Level:** 9,10,11,12  
**PREREQUISITE:** Intro to Text-Based Programming(2620) or AP/PLTW Computer Science Principles (8580)  
**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will write Python code to control and interact with robots, wearable devices, and Internet of Things sensors. Three units will introduce students to coding in Python and to the physical devices. After exposure to these units, students will develop their own project and spend 6 – 8 weeks developing this project in depth. This will be the first course offered in Computer Science that offers the physical element of coding. Our hope is that students who enjoy coding will receive greater motivation in this course while also appealing to students who have not considered coding before.

## **GAME DESIGN 2623**

**Credit:** ½                      **Level:** 9,10,11,12  
**PREREQUISITE:** Intro to Text-Based Programming(2620) or AP Computer Science Principles (8580)  
**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will use Unity to learn the fundamentals of Game Design. During the first half of the course, students will learn to design and place objects in a virtual world. They will then learn how to make the objects dynamic and allow users to interact with their world. Once students have acquired these basic skills, the second half of the course will be devoted to each student creating their own game. Students will present their games at the end of the course.

## **ADVANCED PLACEMENT COMPUTER SCIENCE A 2630**

**Credit:** 1 (Weighted grade)                      **Level:** 10,11,12  
**PREREQUISITE:** Intro to Text-Based Programming (2620) or AP Computer Science Principles (8580).  
**APPROXIMATE FEES:** Approximately \$91 for the A.P. Computer Science A Examination (optional, but recommended)

**COURSE DESCRIPTION:** Students in A.P. Computer Science A study the Java language. This course content is similar to the content covered in a first semester university programming course. Students should expect to spend four to five hours each week outside of class working in the computer lab. Interested students may take the Advanced Placement Computer Science A Examination; performance on the test determines possible college credit.

## **AP COMPUTER SCIENCE PRINCIPLES 8580**

**Credit:** 1 (Weighted grade)                      **Level:** 9, 10,11,12  
**PREREQUISITE:** Successful Completion of Algebra 1; must meet college eligibility requirements to take for college credit.  
**APPROXIMATE FEES:** Approximately \$91 for the AP Exam (Optional, but recommended.)

**COURSE DESCRIPTION:** AP Computer Science Principles is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes to the world. Students will engage in projects where they use computers and data to model and solve problems. They will learn a basic programming language and use this language to create. Students will learn about the architecture and security features of the internet. The content in the course covers a broad range of computer

science topics with an emphasis on creativity, communication, and collaboration.

**CYBERSECURITY** **8590**

**Credit:** ½ **Level:** 11,12

**PREREQUISITE:** Intro to Text-Based Programming(2620) or AP Computer Science Principles (8580)

**APPROXIMATE FEES:** \$30

**COURSE DESCRIPTION:** Cybersecurity introduces the tools and concepts of cybersecurity and

encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. As part of this course, students will compete in competitions as they become available.

# ENGLISH

The mission of the English department is to cultivate intellectual curiosity and empathy and, through literacy, to empower students to be members of a global community.

## **1 credit of English is required each year:**

<b>Grade 9-11 Required Course Options</b>		
<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>
English 9  Composition/ Literature 9  Composition/ Literature Pre-AP 9	English 10  Composition/ Literature 10  Composition/ Literature Pre-AP 10	English 11  Composition/ American Literature 11  AP English Language and Composition  AP Seminar
<b>Grade 9-11 Elective Course Options</b>		
Acting Fundamentals of Speech Communication* Introduction to Theatre Journalism*		*does not fulfill grade 12 credit if taken in grades 9-11

<b>Grade 12 Course Options</b>			
<b>Group A</b> 1.0 credit Choose one:	<b>Group B</b> All courses fulfill required credit only if taken in grade 12 0.5 credit Choose two:		
AP English Literature and Composition	Adventure and Survival Nonfiction	British Literature	Creative Writing
AP Research	Film as Literature	✓ Fundamentals of Speech Communication	✓ Journalism
	Mystery and Suspense	Mythology, Fantasy, and Dystopia	
✓ available for dual credit through CAPP			



<b>Elective Courses <i>not</i> available for required grade 12 credit</b> ✓ available for dual credit through CAPP		
Introduction to Theatre 0.5 credit	Acting 0.5 credit	✓ College Reading 0.25 credit

## **ENGLISH 9 1100**

**Credit:** 1      **Level:** 9

**REQUIRED COURSE:** English 9 (1100), Composition/Literature 9 (1110), or Composition/Literature Pre-AP 9 (1130)

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$27.50 for *Word Within the Word* vocabulary book (also used in grade 10)

**COURSE DESCRIPTION:** English 9 focuses on reading nonfiction and literary texts, writing for a variety of purposes, using language effectively, and speaking and listening. Reading skills are developed through short stories, contemporary young adult novels, and current nonfiction articles. Vocabulary is strengthened through the study of etymology. Writing instruction is provided in a setting that allows immediate feedback from the teacher and active engagement in the process by the student.

## **COMPOSITION/LITERATURE 9 1110**

**Credit:** 1      **Level:** 9

**REQUIRED COURSE:** English 9 (1100), Composition/Literature 9 (1110), or Composition/Literature Pre-AP 9 (1130)

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$27.50 for *Word Within the Word* vocabulary book (also used in grade 10)

**COURSE DESCRIPTION:** Composition/Literature 9 focuses on reading nonfiction and literary texts, writing for a variety of purposes, using language effectively, and speaking and listening. After a review of sentence and paragraph structure, students will progress to more advanced sentence structure and essay writing. Students will also work on research skills. Literary and writing techniques are analyzed through the study of nonfiction works, short stories, poetry, drama, essays, and novels. An etymological study of stems and roots comprises a major part of vocabulary study.

## **COMPOSITION/ LITERATURE PRE-AP 9 1130**

**Credit:** 1      **Level:** 9

**REQUIRED COURSE:** English 9 (1100), Composition/Literature 9 (1110), or Composition/Literature Pre-AP 9 (1130)

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$27.50 for *Word Within the Word* vocabulary book (also used in grade 10)

**COURSE DESCRIPTION:** Composition/Literature Pre-AP 9 integrates the strands of reading/literature, writing/language, and speaking/listening at a more accelerated pace and with greater depth than Composition/Literature 9 (1110). After a review of sentence and paragraph structure, students progress to more advanced sentence, paragraph, and essay writing. Literary techniques are analyzed through the study of short stories, poetry, drama, essays, and novels. This course includes literary terminology and analysis; basics of the sentence, paragraph, and essay; the writing process; vocabulary development, including an etymological study of stems and roots; grammar and usage; public speaking; and research. The study of stems occurs at a more accelerated rate than that of Composition/Literature 9. Students taking this course will be prepared for Composition/Literature Pre-AP 10.

## **ENGLISH 10 1210**

**Credit:** 1      **Level:** 10

**REQUIRED COURSE:** English 10 (1210), Composition/Literature 10 (1220), or Composition/Literature Pre-AP 10 (1230)

**PREREQUISITE:** Teacher recommendation

**APPROXIMATE FEES:** Same vocabulary book from grade 9 or \$27.50 for replacement book

**COURSE DESCRIPTION:** English 10 focuses on reading, understanding, and analyzing short stories, drama, novels, poetry, and nonfiction. This variety of texts serves as the basis for integrating reading, writing, research, speaking, and listening skills. Students will utilize the writing process to produce multi-paragraph essays including the following:

expository, research-based argumentative, personal narrative, and literary analysis. There is a focus on developing the ability to work effectively in groups. The study of grammar, usage and punctuation is taught through the use of ACT prep activities as well as the application to writing. Students continue their study and application of stem words. The primary oral presentation is a speech to inform. Students may enroll in the class with a recommendation from their English 9 teacher or counselor.

## **COMPOSITION/ LITERATURE 10** **1220**

**Credit:** 1    **Level:** 10

**REQUIRED COURSE:** English 10 (1210), Composition/Literature 10 (1220) or Composition/Literature Pre-AP 10 (1230)

**PREREQUISITE:** None

**APPROXIMATE FEES:** Same vocabulary book from grade 9 or \$27.50 for replacement book

**COURSE DESCRIPTION:** Composition/Literature 10 focuses on reading, understanding, and analyzing short stories, drama, novels, poetry, and nonfiction. This variety of texts serves as the basis for integrating reading, writing, research, speaking, and listening skills. Students will utilize the writing process to produce multi-paragraph essays including the following: expository, persuasive, research-based informative, personal narrative, and literary analysis. The study of grammar, usage and punctuation is taught through the use of ACT prep activities as well as the application to writing. Students continue their study and application of stem words. The primary oral presentation is a persuasive speech.

## **COMPOSITION/ LITERATURE PRE-AP 10** **1230**

**Credit:** 1    **Level:** 10

**REQUIRED COURSE:** English 10 (1210), Composition/Literature 10 (1220) or Composition/Literature Pre-AP 10 (1230)

**PREREQUISITE:** Composition/Literature Pre-AP 9 or teacher recommendation

**APPROXIMATE FEES:** Same vocabulary book from grade 9 or \$27.50 for replacement book

**COURSE DESCRIPTION:** Composition/Literature Pre-AP 10 integrates the strands of reading, writing, language, speaking and listening at a more accelerated pace than Composition/Literature 10. Continued study of grammar, usage, and punctuation, often through the use of practice ACT prep activities, will help students improve their writing. Selections from classic and modern authors

provide a thematic approach to interpretation and analysis of the literature. Literary techniques are analyzed through the study of nonfiction selections, novels, and drama. Key writing projects include a research paper and a cited literary analysis. The course continues in the study and application of vocabulary roots/stems. The primary oral presentation is an informative speech. This course is an appropriate placement for self-disciplined, diligent students with excellent study skills. Those who have demonstrated success in meeting the challenge of in-depth style and stem analysis, literary study and the writing process will find themselves prepared for Advanced Placement English Language and Composition.

## **ENGLISH 11** **1310**

**Credit:** 1    **Level:** 11

**REQUIRED COURSE:** English 11 (1310), Composition/American Literature 11 (1320), AP English Language and Composition (1340), or AP Seminar (1590)

**PREREQUISITE:** English teacher recommendation

**APPROXIMATE FEES:** \$13.10 for vocabulary book

**COURSE DESCRIPTION:** This course aligns with the 11<sup>th</sup> grade district standards for reading nonfiction and literary texts, writing, language, and speaking and listening. Students will benefit from individualized practice and coaching on these skills in an engaging, small-group environment. The study of grammar, usage and punctuation is taught through the use of ACT prep activities as well as the application to writing.

## **COMPOSITION/ AMERICAN LITERATURE 11** **1320**

**Credit:** 1    **Level:** 11

**REQUIRED COURSE:** English 11 (1310), Composition/American Literature 11 (1320), AP English Language and Composition (1340), or AP Seminar (1590)

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$13.10 for vocabulary book

**COURSE DESCRIPTION:** This class combines a focus on improving writing, speaking, and listening skills with the study of America's literature from colonial times into the twentieth century. Emphasis will be on the fundamental elements of writing. The study of grammar, usage, and punctuation is addressed through ACT practice and on an as-needed basis. Research skills will be addressed in papers throughout the year. Students will also make oral presentations. Literature study

emphasizes analysis of selected poems, short stories, essays, plays, and novels from American literature, structured thematically.

### **ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION 1340**

**Credit:** 1 (Weighted grade) **Level:** 11

**REQUIRED COURSE:** English 11 (1310), Composition/American Literature 11 (1320), AP English Language and Composition (1340), or AP Seminar (1590)

**PREREQUISITE:** Composition/Literature Pre-AP 10 (1230) or written approval of Composition/Literature 10 instructor.

**APPROXIMATE FEES:** \$13.10 for vocabulary book; \$95 for the AP English Language and Composition examination. Summer reading novels can be new or used.

**COURSE DESCRIPTION:** AP English Language and Composition is a college-level course for students who have a passion for language, excellent writing skills, and a desire to improve critical thinking skills through the analysis of mature prose. This course focuses on expository, narrative, and persuasive writing techniques used by writers to convey a message effectively, efficiently, and stylistically. Models (primarily nonfiction) and strategies are studied to improve writing style, critical reading, and writing. This course requires summer reading. Students should plan to take the Advanced Placement English Language and Composition examination in May.

### **ADVANCED PLACEMENT SEMINAR 1590**

**Credit:** 1 (Weighted grade) **Level:** 11

**REQUIRED COURSE:** English 11 (1310), Composition/American Literature 11 (1320), AP English Language and Composition (1340), or AP Seminar (1590)

**PREREQUISITE:** Students will have taken, or be concurrently enrolled in, another AP Course.

**APPROXIMATE FEES:** \$142 for the AP examination is collected in the spring

**NOTE:** This is a prerequisite for AP Research. Students who wish to take AP Research as a senior need to take AP Seminar as a junior.

**COURSE DESCRIPTION:** In this foundational course students develop and strengthen analytic and inquiry skills, exploring relevant issues chosen by the student and/or teacher. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question,

research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. A part of a two-course AP Capstone Program, AP Seminar is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses already being offered at CHS. AP Seminar provides a project-based experience that cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

### **\*: ENGLISH COURSES AVAILABLE FOR REQUIRED GRADE 12 ENGLISH IF TAKEN IN GRADE 12**

### **\*ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION 1440**

**Credit:** 1 (Weighted grade) **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** AP English Language and Composition (1340) or written approval from Composition/American Literature 11 (1320) teacher

**APPROXIMATE FEES:** \$95 for the AP English Literature and Composition examination is collected in the spring

**COURSE DESCRIPTION:** This is a challenging college-level English course for the student who has a special ability and interest in reading, analyzing, discussing, and writing about literature with increased depth and insight. Course selections include poetry, short stories, drama, and novels of literary merit by noted British, American, and world writers. Emphasis is on critical reading, writing, and thinking. Through in-depth literary analysis and discussion, the student will learn how various critical theories, genres, literary movements, artistic styles, language, and themes affect meaning. Performance on the Advanced Placement English Literature and Composition examination in May determines possible college credit.

### **\*BRITISH LITERATURE 1422**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This semester course will provide students with a foundation in major writers, themes, ideas, and literary movements in British literature and an opportunity to think, read, and write at an advanced level. A thematic and chronological organization of selections of poetry, drama, short story, and the novel form the basis for an integrated study of language arts. Writing, reading, researching, speaking, and listening activities are designed to foster critical thinking and clear and effective communication. Students should have a working knowledge of the conventions of language and strengths in reading comprehension and writing. Emphasis will be on improvement of analytical and interpretive skills along with understanding and appreciation of literary works in their historical context. Writing assignments will prepare students for post-secondary education.

**\*FILM AS LITERATURE 1500**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will learn terminology of both film and literature studies in order to develop critical thinking skills and to analyze the partnership between content and form through both visual and written texts. As writers, students will learn how to identify point-of-view, defend a thesis statement, defend a filmmaker's choices, use nonfiction readings as supplementary texts, and cite textual evidence to support a particular interpretation of a text. Students will produce sophisticated essays that investigate how filmmakers use traditional literary methods such as subtext, allegory, and symbolism to explore demanding themes. Unit titles include but are not limited to Film Structure and Visual Storytelling Techniques, Film as Social Commentary, Telling the Story of War, and Documentary Filmmaking.

**\*MYSTERY AND SUSPENSE 1505**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will hone critical reading and close reading strategies by studying a variety of mentor texts (e.g., Gothic literature, Shakespearean tragedy, contemporary mystery), and they will practice craft and technique by analyzing how effective writers create suspense, exploring the relationship between setting and mood, and learning how to develop characters by writing short and extended narratives. Students will also develop research skills by researching a self-selected topic and sharpen their speaking skills through the presentation of their findings.

**\*JOURNALISM 1510**

**Credit:** ½ **Level:** 9,10,11,12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$30.50 for *Associated Press Stylebook*.

**NOTE:** Students in all grades with a 2.75 cumulative GPA have the option to earn three college credits through the UW-Oshkosh CAPP program (Journalism 221: Writing for the Media) at a cost of approximately \$300. This is a convenient and affordable way for students to earn concurrent high school and college credit that will transfer to any college/university after high school. For more information please visit [www.uwosh.edu/capp](http://www.uwosh.edu/capp) or talk with Ms. Vande Sande.

**COURSE DESCRIPTION:** This course provides students with a foundation in writing for the media. Students will study several topics related to journalism, including the evaluation of news; the style and structure of news stories, features and opinion pieces; interviewing, research and presentation skills; ethical considerations; and legal issues. Students who enroll in this course benefit from refining their writing skills in forms and styles appropriate for the audiences and purposes they serve. They will also receive instruction and opportunities to practice speaking and listening skills when interviewing, reading skills while researching background information for a story, research skills while preparing to interview or write, and technology skills while putting the final product in a published format. Students will also have the opportunity to write for the *Common Sense* school newspaper, which is an extracurricular activity. Students interested in pursuing a leadership role on the newspaper staff should take this class as freshmen or sophomores.



**\*MYTHOLOGY, FANTASY, AND DYSTOPIA** **1515**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students in this class will begin by exploring the mythology of various cultures including Greek/Roman, African, Native-American, Eastern, etc. Students will explore the role of mythology in popular culture, as well as observe how myth functions in our lives today. The study of mythology will naturally segue into an exploration of mythology's evolution into the Speculative Fiction genre that includes Fantasy, Science Fiction and Dystopian works. In their exploration, students will see the literature as a reflection of society around them and will be able to develop reading and analytical skills through the close reading of the texts and discussion of how literature shapes and is shaped by history.

**\*CREATIVE WRITING** **1520**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will learn to use language more effectively and learn how word choice and manipulation of language can more effectively communicate ideas to an audience. Students should have a working knowledge of the conventions of language in order to fully appreciate the effects of employing or modifying those conventions. Students will learn how authors use language to create meaning in writing and be able to effectively apply that understanding to their own written communication. Students will study the work of published authors in order to model the techniques used by recognized experts in their respective genres. Students will engage in the creative writing process across a range of genres: short stories, poetry, creative nonfiction, drama. The class will employ writing workshops to allow students to receive and provide feedback on their work.

**\*ADVENTURE AND SURVIVAL NONFICTION** **1525**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** The course Adventure and Survival will investigate the physical, psychological, social, and spiritual aspects of what it means to "survive" as a human being, using non-fiction texts and documentaries as the vehicle for this exploration. In addition, we will study contemporary and classic adventure tales, considering the nature of human endurance and what drives individuals to take incredible risks. Thus, course texts may range from excerpts from the autobiographies of Antarctic explorers to a documentary about extreme climbers to a memoir describing life with chronic illness. The main course text is a biographical account of a man lost at sea for well over a year. Writing assignments may involve personal narrative, synthesis, and/or argument pieces that engage with the course's essential questions. Finally, for seniors who are about to embark on their own adventures, this course will offer students opportunities to consider how their own resilience and mindset can help them manage risk and overcome adversity in the future.

**\*FUNDAMENTALS OF SPEECH COMMUNICATION** **1530**

**Credit:** ½ **Level:** 9,10,11,12

**PREREQUISITE:** None

**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.

**APPROXIMATE FEES:** None if not taken for college credit; approximately \$300 for 3 college credits (see below).

**NOTE:** Students in all grades with a 2.75 cumulative GPA have the option to earn three college credits through the UW-Oshkosh CAPP program (Comm 111: Introduction to Public Speaking) at a cost of approximately \$300. This is a convenient and affordable way for students to earn concurrent high school and college credit that will transfer to any college/university after high school. For more information please visit [www.uwosh.edu/capp](http://www.uwosh.edu/capp) or talk with Ms. Vande Sande.

**COURSE DESCRIPTION:** Fundamentals of Speech Communication helps students refine the skills which are necessary to successfully construct and communicate ideas and positions. Upon completing this course, students should be able to write and deliver a presentation that is organized, audience-centered, researched and logical.

**\*ADVANCED PLACEMENT RESEARCH 1595**

**Credit:** 1 (Weighted grade) **Level:** 12  
**REQUIRED COURSE:** AP English Literature and Composition (1440), AP Research (1595), or two ½ credit English courses available for required grade 12 credit.  
**PREREQUISITE:** AP Seminar  
**APPROXIMATE FEES:** \$142 for the AP examination is collected in the spring

**COURSE DESCRIPTION:** This second course in the AP Capstone experience allows students to design, plan, and conduct a year-long research based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. Students may choose to dig deeper into a topic studied in an AP course, work across academic areas with an interdisciplinary topic, or study a new area of interest, perhaps one for further study at the college level.

**THE FOLLOWING ELECTIVE COURSES DO NOT SATISFY THE REQUIRED GRADE 12 ENGLISH CREDIT:**

**INTRODUCTION TO THEATRE 1550**

**Credit:** ½ **Level:** 9, 10, 11, 12  
**PREREQUISITE:** None  
**APPROXIMATE FEES:** None  
**NOTE:** This is an elective course; it does not satisfy the four-credit English requirement.

**COURSE DESCRIPTION:** Students enrolled in Introduction to Theatre will spend the semester exploring many different aspects of theatrical production. This survey course emphasizes the techniques of acting, including character development, scene study, pantomime, and improvisation. Technical production study includes an introduction to set design and construction, light

and sound design, costuming, and makeup. Theatre literature and history will also be studied. Students will gain a working knowledge of theatre vocabulary and learn how to be a disciplined performer as well as an informed audience member.

**ACTING 1570**

**Credit:** ½ **Level:** 9, 10, 11, 12  
**PREREQUISITE:** Introduction to Theatre (1550)  
**APPROXIMATE FEES:** None  
**NOTE:** This is an elective course; it does not satisfy any part of the four-credit English requirement.

**COURSE DESCRIPTION:** In this intermediate course, students will study more advanced acting techniques. Different methods of acting and script analysis will be explored, as well as vocal and dialect training, movement, advanced scene study, and audition preparation. Students will perform in improvisational scenes, monologues, duets, and longer works. Students enrolling in this class will be expected to demonstrate discipline, teamwork, and personal maturity appropriate to this level of learning.

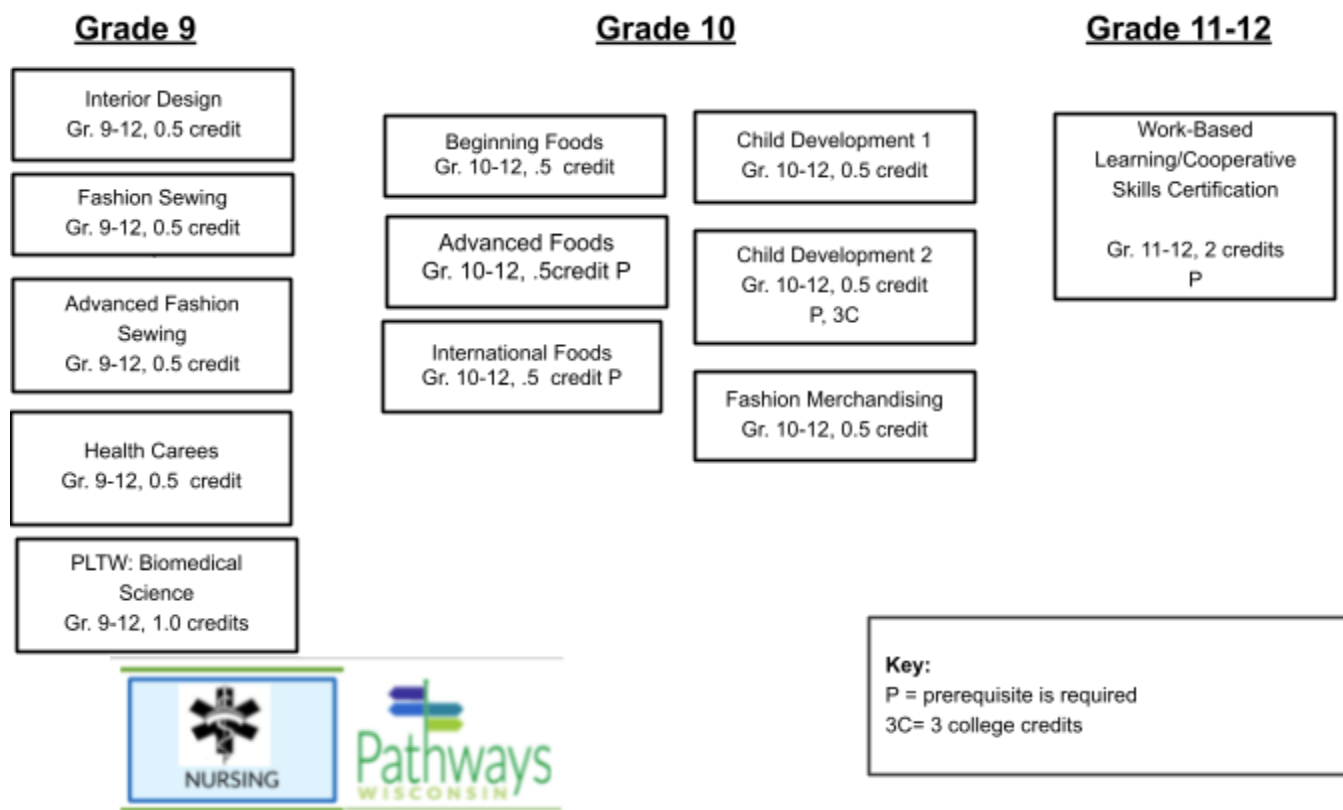
**COLLEGE READING 1600**

**Credit:** ¼ **Level:** 9-12  
**PREREQUISITE:** None  
**APPROXIMATE FEES:** None  
**NOTE:** This is an elective course; it does not satisfy any part of the four-credit English requirement.

**COURSE DESCRIPTION:** Success in college is in large part determined by how well students read, process, and remember information. This course has been designed to offer opportunities to improve skills essential to meaningful study of academic texts. The course is a blended course which allows students to work at their own pace throughout the semester by utilizing Canvas and weekly meetings with the adjunct instructor. Students have the opportunity to earn one college credit and a college transcript grade through the UW-Oshkosh CAPP program (ACAD-169) at a cost of \$100.

# FAMILY & CONSUMER SCIENCE

Family and Consumer Science empowers individuals and families across the lifespan to manage the challenges of living and working in a diverse global society. Its unique focus is on families, work, and their interrelationships. Click [here](#) to watch a video!.



## **FASHION SEWING 7710**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$9.00; plus student's selection of sewing supplies (fabric, elastic, thread).

**COURSE DESCRIPTION:** Fashion Sewing is designed for students who have an interest in clothing construction. This course teaches students how to understand construction principles, read patterns, and properly use sewing machines and equipment to create their own accessories, and projects. Current fashion trends will be reviewed.

**No previous sewing experience is necessary.**

## **ADVANCED FASHION SEWING 7720**

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

**PREREQUISITE:** Fashion Sewing (7710)

**APPROXIMATE FEES:** \$4.00 plus student's selection of sewing supplies (fabric, thread, elastic).

**NOTE:** Students may repeat this course to enhance their sewing skills.

**COURSE DESCRIPTION:** This class is a continuation of Fashion Sewing (7710). It 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. Students are responsible for sewing supplies (fabric, thread, elastic)..

## **FASHION MERCHANDISING 7730**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course focuses on the many aspects of the fashion world. Areas explored are clothes and fashion, the apparel industry, textiles, elements and principles of design related to apparel, and apparel industry careers. This is a hands-on course with many different projects.

## **BEGINNING FOODS 7750**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$30.00

**NOTE:** This course has the same content as Beginning Foods (7760), but only freshmen and sophomores may enroll.

**COURSE DESCRIPTION:** This course introduces students to the basic techniques used in the preparation of food. Frequent cooking labs involve group activities in the organization, preparation, tasting, and evaluation of food. Safety, the basics of measuring, and the principles of food preparation are incorporated into each unit. Units include cookies, cakes, pies, quick breads, yeast breads, egg recipes, salads, vegetables, table manners, etiquette, and more.

## **ADVANCED FOODS 7770**

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

**PREREQUISITE:** Beginning Foods (7750)

**APPROXIMATE FEES:** \$30.00

**COURSE DESCRIPTION:** Advanced Foods is an opportunity for students to apply previous cooking experience to new types of recipes and creative food preparation. Units include: safety and sanitation, principles of cooking, poultry, pasta and rice, candy making, microwaves, and regional cooking of the United States. Students have the opportunity to work in a small group setting. Frequent cooking labs involve group activities in the organization, preparation, tasting, and evaluation of food.

## **INTERNATIONAL FOODS 7780**

**CREDIT:** ½                   **LEVEL:** 10,11,12

**PREREQUISITE:** Beginning Foods (7750)

**APPROXIMATE FEES:** \$30.00

**COURSE DESCRIPTION:** This foods class allows students to gain additional experience through

frequent cooking labs. Coursework will focus on and explore the foods, customs, preparation techniques, history, and cultures of different countries and regions around the world. Units will include China, Italy, France, Mexico, India, Germany and Brazil. Frequent cooking labs involve group activities in the organization, preparation, tasting, and evaluation of food.

## **INTERIOR DESIGN 7820**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** Supplies; field trip costs

**COURSE DESCRIPTION:** This course introduces students to the world of Interior Design. Students will learn about the elements and principles of design, the role of color, recognizing furniture styles, and selecting furniture. Using this information, students develop design plans and complete and present their own unique designs through visual presentations such as presentation boards, samples, and scale drawings. Elements of style, color scheme, space plan, backgrounds and furniture are considered. This is a project based classroom that uses a variety of activities that foster learning.

## **CHILD DEVELOPMENT I 7910**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course provides students with an understanding of the physical, social, emotional, and cognitive development of children from birth through preschool age. Additional areas of study include shaken baby syndrome, birth defects, positive guidance techniques, SIDS, and the family. A lab experience in the form of a preschool at CHS is the culminating activity, providing the opportunity to plan, observe, and work with young children.

## **CHILD DEVELOPMENT II 7920**

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

**PREREQUISITE:** Child Development I (7910)

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course provides entry level knowledge and skills for individuals as they begin to or intend to care for children in group or family child care settings. Learners explore rules and regulations governing group and family care and the responsibilities of child care providers. **This course is articulated with MATC for 3 college credits.**



## **HEALTH CAREERS EXPLORATION 7960**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**PATHWAY COURSE:** [Nursing](#)



**COURSE DESCRIPTION:** This course will provide an orientation to the healthcare field. Areas of study include history and trends of the healthcare field, legal and ethical responsibilities, health care systems, careers in health care, personal and professional qualities of a healthcare worker, geriatric care, computer technology in health care, safety precautions, infection control, medical terminology and employability skills. A blend of guest speakers, field trips and job shadow experiences will provide a well-rounded view of the healthcare field.

## **PLTW: BIOMEDICAL SCIENCE**

**(Project Lead the Way) 8560**

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

**RECOMMENDED:** Health Careers Exploration recommended but not required.

**PREREQUISITE:** None; must meet college eligibility requirements to take for college credit.

**APPROXIMATE FEES:** \$15 if not taken for college credit; approximately \$215 for 3 college credits.

Significant college credit savings.

**PATHWAY COURSE:** [Nursing](#)

**NOTE:** MSOE course BI-1001



Principles of Biomedical Science.

Participation in the PLTW program (MSOE) is an individual option and requires a fee for the tuition payable to the university. Participants who successfully complete the course receive three college credits in addition to the high school credit.

**Course Description:** In the introductory course in the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine the factors that lead to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

## **WORK-BASED LEARNING/ COOPERATIVE SKILLS**

**CERTIFICATION 7940**

**Credit:** 2                      **Level:**11,12

**PREREQUISITE:** Previously or currently enrolled in Family and Consumer Science course and approval from Family and Consumer Science teacher

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This Cooperative Skills Standards Certificate Program is a 2 credit course for junior or senior students who are interested in combining paid work experience with classroom training in employability skills. Students learn technical tasks and employability skills validated by business and industry representatives in cooperation with high school instruction. Paid work experience can include but is not limited to: child care, health occupations, personal finance, customer service, fashion retail, hotel and hospitality, food and culinary service and home furnishings/home improvement. **Students will receive a DPI Cooperative Education Skills Standard Certificate upon completion of course.**

# MATHEMATICS

The mission of the Cedarburg High School Mathematics Department is to prepare all students with the mathematical skills necessary to think critically, logically, and creatively; and to apply and communicate these skills. **\*3 credits of math are required graduation**

The following charts give typical paths followed by our students. Keep in mind that once a student completes a course, there is still tremendous flexibility in the course sequence. Depending on the needs and interests of the student, more options exist.

Typical Freshman Course	Typical Sophomore Course	Typical Junior Course	Typical Senior Course	Other Math Elective Courses Available
Algebra	Geometry	Algebra II	College Algebra and Probability and Statistics ***** Trigonometry/Pre-Calculus (c) ***** Trigonometry & Intro to Calculus	AP Statistics (c) Intro to Block-Base Programming - Intro to Text-Base Programming - AP Computer Science Principles (c) - AP Computer Science A (c) - App Development - Cybersecurity - Physical Computing - Game Design - Drones 101 - Global Mathematics (Check course descriptions for prerequisites.)
Algebra Accelerated	Geometry Accelerated	Algebra II Accelerated		
Honors Algebra	Honors Geometry	Honors Algebra II w. Trig	Intro to Calculus	
Typical Freshman Course	Typical Sophomore Course	Typical Junior Course	Typical Senior Course	Other Math Elective Courses Available
Geometry Accelerated	Algebra II Accelerated	Trigonometry/Pre-Calculus (c)	Intro to Calculus	AP Statistics (c) Intro to Block-Base Programming - Intro to Text-Base Programming - AP Computer Science Principles (c) - AP Computer Science A (c) - App Development - Cybersecurity - Physical Computing - Game Design - Drones 101 - Global Mathematics (Check course descriptions for prerequisites.)
Honors Geometry	Honors Algebra II w. Trigonometry	Trigonometry & Intro to Calculus ***** Intro to Calculus	AP Calculus AB (c) ***** AP Calculus BC (c)	
Typical Freshman Course	Typical Sophomore Course	Typical Junior Course	Typical Senior Course	Other Math Elective Courses Available
Algebra II Accelerated	Trigonometry/Pre-Calculus (c)	Intro to Calculus	AP Calculus AB (c) ***** AP Calculus BC (c)	AP Statistics (c) Intro to Block-Base Programming - Intro to Text-Base Programming - AP Computer Science Principles (c) - AP Computer Science A (c) - App Development - Cybersecurity - Physical Computing - Game Design - Drones 101 - Global Mathematics (Check course descriptions for prerequisites.)
Honors Algebra II w. Trig	Intro to Calculus	AP Calculus AB (c) ***** AP Calculus BC (c)	Calculus III (c) and Differential Equations	

- (c) - college credit available

## **ALGEBRA SUPPORT** 2135

**Credit:** 1      **Level:** 9

**PREREQUISITE:** Students in need of intensive support relating to algebra prerequisites. Recommendation of 8th-grade math teacher.

**APPROXIMATE FEES:** None

**NOTES:** The credit for Algebra Support counts as an elective credit, not a math credit. (The credit for the regular Algebra course does count as a math credit)

**COURSE DESCRIPTION:** Algebra Support is an intensive course that supports a student concurrently enrolled in Algebra. Students work on algebra prerequisites while also exploring algebra concepts in more depth than a single Algebra class allows.

**ALGEBRA I 2105**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Algebra 1 is a basic course that provides the principal concepts necessary for all mathematics courses beyond the arithmetic level. Equation-solving techniques that are vital to all future mathematics and sciences are developed. Algebra 1 includes the following topics: meanings and uses of formulas, linear equations and inequalities and their graphs in one and two variables, quadratic equations and their graphs, exponential and other functions, probability and statistics, logic and proof. This course is aimed at students who have struggled in prior math courses and will focus on the essential concepts of algebra.

**ALGEBRA I ACCELERATED 2110**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Algebra I Accelerated is a course that provides the principal concepts necessary for all mathematics courses beyond the arithmetic level. Equation solving techniques that are vital in the study of future mathematics and sciences are developed. Algebra I Accelerated includes the following topics: meanings and uses of formulas, linear equations and inequalities and their graphs in one and two variables, quadratic equations and their graphs, exponential and other functions, probability and statistics, logic and proof. This course will emphasize more applications and go into greater depth than the Algebra I course.

**ALGEBRA HONORS 2139**

**Credit:** 1      **Level:** 9

**PREREQUISITE:** Recommendation of 8th-grade math teacher.

**APPROXIMATE FEES:** Scientific calculator required.

**COURSE DESCRIPTION:** Honors Algebra is a challenging course that covers the principle concepts necessary for all mathematics courses offered at Cedarburg High School. It is assumed that students enrolling in Honors Algebra have an excellent foundation in prior skills and understanding, as well as a strong motivation to study higher-level mathematics. Equation-solving techniques that are vital to all future mathematics and sciences are developed. Honors Algebra includes the meanings and uses of formulas, linear equations in one and two unknowns, graphing linear relations in the rectangular coordinate system, and quadratic equations.

**GEOMETRY 2210**

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

**PREREQUISITE:** Algebra 1 (2110) or teacher recommendation

**APPROXIMATE FEES:** None

**RECOMMENDED:** For students entering a university, technical/vocational school, the military, or the job market immediately after high school

**COURSE DESCRIPTION:** Geometry is the study of a mathematical system involving points, lines, and planes. Emphasis is on the development of logic, reasoning, and proof. This course is aimed at students who have struggled in prior math courses and will focus on the basic concepts.

**GEOMETRY ACCELERATED 2220**

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

**PREREQUISITE:** Successful completion of Algebra 1 (2110)

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For students considering entering a four-year college immediately after high school

**COURSE DESCRIPTION:** This course is a study of Euclidean Geometry from a deductive approach. The concepts of congruence, similarity, and parallel and perpendicular lines are studied using proof, definitions, postulates, theorems, and coordinate geometry. Strong algebraic skills are required to

solve the variety of two and three-dimensional topics covered in the course. A scientific calculator is required.

## **GEOMETRY HONORS 2120**

**Credit:** 1      **Level:** 9, 10

**PREREQUISITE:** Successful completion of Algebra 1 in 7th or 8th-grade year, Algebra Honors in 9<sup>th</sup> grade with a grade of B or higher, or teacher recommendation

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For students with a serious interest in mathematics, science or engineering. Students need to show a willingness to work hard and be ready to accept a challenge.

**COURSE DESCRIPTION:** Geometry Honors is the study of a mathematical system involving points, lines, and planes. Emphasis is on the development of logic, reasoning, and proof.

## **ALGEBRA II 2330**

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

**PREREQUISITE:** Algebra I (2110); teacher recommendation

**APPROXIMATE FEES:** Scientific Calculator is required

**RECOMMENDED:** For students entering a university, technical/vocational school, the military, or the job market immediately after high school

**COURSE DESCRIPTION:** The study of functions and their graphs, including polynomial, rational, logarithmic, exponential, and circular functions provide the main strands of this course. Other topics include data analysis, complex numbers and probability.

## **ALGEBRA II ACCELERATED 2340**

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

**PREREQUISITE:** Algebra 1 (2110) and teacher recommendation

**APPROXIMATE FEES:** Scientific calculator required

**RECOMMENDED:** For students considering entering a four-year college immediately after high school

**COURSE DESCRIPTION:** Algebra II Accelerated is an extension of first-year algebra. The study of functions and their graphs, including polynomial, rational, logarithmic, exponential, and circular functions provide the main strands of this course. Other topics include data analysis, complex numbers, and probability. There is a heavy focus on applications in this course.

## **HONORS ALGEBRA II WITH TRIG TRIGONOMETRY 2250**

**Credit:** 1      **Level:** 9, 10, or teacher recommendation

**PREREQUISITE:** Successful completion of Algebra 1 in 7th or 8th grade, Honors Geometry with a grade of B or higher, or teacher recommendation

**APPROXIMATE FEES:** TI-Nspire graphing calculator is required

**RECOMMENDED:** For advanced mathematics students who plan to enroll in AP Calculus. This course assumes students possess a firm grasp of all concepts covered in Algebra 1.

**COURSE DESCRIPTION:** Honors Algebra II with Trigonometry is an accelerated study of the topics included in both Advanced Algebra (2340) and Trigonometry (2430). Mastery of algebra and geometry is vital for success in this course.

## **COLLEGE ALGEBRA 2410**

**Credit:** ½      **Level:** 12

**PREREQUISITE:** Geometry (2220) and Algebra II (2340)

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For students who need to strengthen and expand their algebra skills and are intending to major in business, economics, and the social sciences

**COURSE DESCRIPTION:** College Algebra provides students an opportunity to strengthen and expand their intermediate algebra skills. The following topics are reviewed: fundamental algebraic manipulation; conic sections; polynomial, exponential, and logarithmic functions; systems of equations. Matrices and mathematical induction are introduced.

## **PROBABILITY & STATISTICS 2420**

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

**PREREQUISITE:** Algebra II Accelerated (2340) or Algebra II (2330)

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For students who plan to enter such fields as economics, business education, engineering, psychology, biology, and medicine

**NOTE:** This course may be taken concurrently with Algebra II Accelerated (2340).

**COURSE DESCRIPTION:** This course gives students an opportunity to become acquainted with some of the basic concepts of elementary probability, data description, distributional considerations, and sampling theory.

### **TRIGONOMETRY/PRE-CALCULUS 2425**

**Credit:** 1      **Level:** 11,12

**PREREQUISITE:** Geometry (2220) and Algebra II Acc (2340)

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For seniors who plan to study calculus in college

**COURSE DESCRIPTION:** This course combines one semester of Trigonometry and one semester of Pre-Calculus and would be eligible for 5 college-level credits through the UW-Oshkosh CAPP program (Math 108 Pre-Calculus). Juniors and seniors have the option to take the course and earn five college credits through the UW-Oshkosh CAPP program at a cost of approximately \$500. CAPP registrations also require a GPA minimum and/or ACT score and required a score on the UW math placement test. Trigonometry includes the study of trigonometry, vectors, and complex numbers. These topics offer numerous mathematical applications and lay foundations for the further study of mathematics, particularly calculus. Students are given the opportunity to understand the elementary concepts and uses of this important branch of mathematics. Precalculus helps prepare students for the study of college mathematics by providing a foundation for all pre-calculus topics. This includes rational, trigonometric, exponential and logarithmic functions. Students will solve equations, graph and apply these functions in a variety of situations. The limit and derivative concepts from calculus may also be

introduced. The development of these topics requires significant review and application of algebra and geometry.

### **TRIGONOMETRY 2430**

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

**PREREQUISITE:** Geometry Acc (2220); Algebra II Acc (2340)

**APPROXIMATE FEES:** Scientific calculator required.

**COURSE DESCRIPTION:** This course includes the study of trigonometry, vectors, and complex numbers. These topics offer numerous mathematical applications and lay foundations for the further study of mathematics, particularly calculus. Students are given the opportunity to understand the elementary concepts and uses of this important branch of mathematics.

### **PRE-CALCULUS 2441**

**Credit:** ½      **Level:** 11,12

**PREREQUISITE:** Geometry Acc (2220) and Algebra II Acc (2340)

**APPROXIMATE FEES:** Scientific calculator required.

**RECOMMENDED:** For seniors who plan to study calculus in college

**NOTE:** This course is designed to be taken in the second semester immediately following Trigonometry (2430).

**COURSE DESCRIPTION:** Mathematical Analysis helps prepare students for the study of college mathematics by providing a foundation of all pre-calculus topics. This includes rational, trigonometric, exponential and logarithmic functions. Students will solve equations, graph and apply these functions in a variety of situations. The limit and derivative concepts from calculus may also be introduced. The development of these topics requires significant review and application of algebra and geometry.

### **INTRODUCTION TO CALCULUS 2525**

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

**PREREQUISITE:** Successful completion of Geometry (2120 or 2220) and one of the following: Algebra II Accelerated (2340) with a B or higher and concurrent enrollment in Trigonometry (2430) OR



successful completion of Honors –Algebra II w/ Trigonometry (2250) with a B or higher.

**APPROXIMATE FEES:** TI-Nspire graphing calculator required

**RECOMMENDED:** For students who desire a strong preparation for studying calculus in college.

**COURSE DESCRIPTION:** Introduction to Calculus helps prepare students for the study of college mathematics by providing a foundation of the concepts of limit, continuity, and derivatives. Topics also include differentiation and integration of polynomial and trigonometric functions, related rates, maxima and minima, The Mean Value Theorem, areas, volumes, and selected topics. The development of these topics requires significant review and application of algebra and geometry.

### **ADVANCED PLACEMENT STATISTICS 2510**

**Credit:** 1 (weighted grade)      **Level:** 10, 11,12

**PREREQUISITE:** Successful completion of Algebra II Accelerated (2340) OR Honors Algebra II w/ Trigonometry (2250) with a grade of B or higher.

**APPROXIMATE FEES:** Approximately \$91 for the A.P. Statistics Examination (optional, but recommended). TI-Nspire graphing calculator is required.

**RECOMMENDED:** For students who plan to enter such fields of social sciences, health sciences, and business.

**COURSE DESCRIPTION:** The purpose of the A.P. Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four main themes are: 1. Exploring Data: Observing patterns and departures from patterns, 2. Planning a Study: Deciding what and how to measure, 3. Anticipating Patterns: Producing models using probability theory and simulation, 4. Statistical Inference: Confirming models.

This course is equivalent to most introductory statistics courses at the university level. This course is appropriate for a broad range of students who have accelerated their study of high school mathematics, as well as for students who follow the Algebra-Geometry-Advanced Algebra sequence for their first three years of study. All students are

encouraged to take the Advanced Placement Statistics examination. Performance on the test determines possible college credit.

### **ADVANCED PLACEMENT CALCULUS AB 2535**

**Credit:** 1 (Weighted grade)

**Level:** 11,12

**PREREQUISITE:** Successful completion of Introduction to Calculus (2530) with a grade of B or higher.

**APPROXIMATE FEES:** Approximately \$91 for the A.P. Calculus Examination (optional, but recommended). TI-Nspire graphing calculator is required.

**COURSE DESCRIPTION:** Advanced Placement Calculus is a continuation of Introduction to Calculus. Topics will include limits, differentiation, integration, differential equations, and applications. The course will focus on multiple representations of the mathematical concepts-verbal, graphical, numerical, and analytical. Technology and the graphing calculator will be used daily. AP Calculus AB reflects the Advanced Placement curriculum. The AB level is equivalent to most one semester of introductory calculus courses at the university level. Interested students may the Advanced Placement AB examination; performance on the test determines possible college credit.

### **ADVANCED PLACEMENT CALCULUS BC 2540**

**Credit:** 1 (Weighted grade)      **Level:** 11,12

**PREREQUISITE:** Successful completion of Introduction to Calculus (2530) with a grade of B or higher.

**APPROXIMATE FEES:** Approximately \$91 for the A.P. Calculus Examination (optional, but recommended). TI-Nspire graphing calculator is required.

**COURSE DESCRIPTION:** Advanced Placement Calculus is an accelerated continuation of Intro. to Calculus. Topics include limits, differentiation, integration, transcendental functions, plane vectors, parametric equations, infinite series, and differential equations. The course will focus on multiple representations of the mathematical concepts--verbal, graphical, numerical, and

analytical. Technology and the graphing calculator will be used daily. A.P. Calculus BC reflects the Advanced Placement Curriculum. The BC level is equivalent to most year-long introductory calculus courses at the university level. Interested students may take the Advanced Placement BC examination; performance on the test determines possible college credit. Because of the accelerated pace of this course, AP Calculus BC is most appropriate for students with an excellent understanding of previous mathematics coursework and with a very strong work ethic.

### **CALCULUS III 2550**

**Credit:** ½ (Weighted grade)      **Level:** 11,12

**PREREQUISITE:** AP Calculus BC and a grade of 3 or higher on the AP Calculus BC exam.

**APPROXIMATE FEES:** TI-NSpire or TI-83/84 graphing calculator is required.

**COURSE DESCRIPTION:** Calculus III (UW-Oshkosh 273 MAT Calculus III) covers the following topics: vectors in three-dimensional space, vector functions, differential equations, partial derivatives, multiple integrals with applications, and vector calculus. Multiple representations of concepts will be emphasized - graphical, numerical, analytical, and descriptive. The topics will be covered with the same depth and rigor as would be expected in a third-semester college-level calculus course.

Juniors and seniors have the option to take the course and earn four college credits through the UW-Oshkosh CAPP program at a cost of approximately \$400. CAPP registrations also require a GPA minimum and/or ACT score and a score of a 4 or 5 on the AP Calculus BC test.

### **LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS 2560**

**Credit:** ½ (Weighted grade)      **Level:** 11, 12

**PREREQUISITE:** Successful completion of Calculus III.

**APPROXIMATE FEES:** TI-NSpire or TI-83/84 graphing calculator is required.

**COURSE DESCRIPTION:** This course covers the following topics: elementary linear algebra, including matrices and determinants; vector spaces, linear transformations, solutions of linear systems, and differential equations including series of equations.

The topics will be covered with the same depth and rigor as would be expected in a college-level course.

### **DRONE REMOTE PILOT CERTIFICATION 2700**

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

**PREREQUISITE:** Algebra I Accelerated

**APPROXIMATE FEES:** \$10

**NOTE:** This course will not fulfill any of the 3 credits required for the math graduation requirement.

**COURSE DESCRIPTION:** (Level I Transportation Course) Students will be able to learn how to operate a drone safely and professionally. During this class students will be building and learning how to program a drone. Upon completion of this course students can obtain their 107 Remote Pilot License and mapping certification by successfully passing the certification test.

[See Computer Science Section for Course Descriptions.](#) NOTE: These courses will not fulfill any of the 3 credits required for the math graduation requirement.

### **GLOBAL MATHEMATICS 2705**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$12

**NOTE:** This course will not fulfill any of the 3 credits required for the math graduation requirement.

**COURSE DESCRIPTION:** Global Mathematics provides students an opportunity to learn some of the history of mathematics and current developments in mathematics. Students will make mathematical creations, collaborate with mathematicians and students throughout the world, and review essential math standards. Fractals, foldable designing, robotics, 3D printing, equation drawings using technology, and knot theory are some of the topics that will be explored. This course counts towards the Global Scholars coursework.

# MUSIC

The Cedarburg High School Music Department seeks to offer students the opportunity to develop well rounded musicians through a progressive curriculum addressing all stages of development. Quality performance is a direct bi-product of a consistent approach in process, with the journey through music literacy, history, culture, rehearsal skills and critical listening as important as the destination of successful performance. We foster an atmosphere of team building, achieved through the common goal of commitment to practice, music exploration and collaborative music making.

## Grade 9

Treble Choir  
Gr. 9-12, 1 credit

Concert Choir  
Gr. 9-12, 1 credit

Marching Band  
Gr. 9-12, No credit \*

Concert Band  
Gr. 9-12, 1 credit\*

Jazz Ensemble  
Gr. 9-12, 1 credit\*

Music Theory  
Gr. 9-12, 1 credit\*

## Grade 10-12

Concert Choir  
Gr. 10-12, 1 credit

A Capella Choir  
Gr. 10-12, 1 credit \*P

Bella Voce  
Gr. 10-12, 1 credit\*P

Symphonic Band  
Gr. 10-12, 1 credit\*P

### Key

P = Prerequisite required

\* = Consent of instructor required.



## **TREBLE CHOIR** 6410

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Treble Choir is for vocalists who sing in the treble range and who wish to participate in the enriching experience of ensemble singing. Music of all periods is studied, and emphasis is on the development of vocal technique and music literacy. Required evening concerts are scheduled three times a year. Quarterly music fundamentals are also required as a supplement to classroom rehearsals. Participation in the WSMA Solo/Ensemble Festival is strongly encouraged. Field trips are possible.

## **CONCERT CHOIR** 6420

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Concert Choir is for vocalists who wish to participate in the enriching experience of ensemble singing. Music of all periods is studied, and emphasis is on the joy of singing and music exploration. Required evening concerts are scheduled three times a year in addition to a graduation performance. Quarterly music fundamentals are also required as a supplement to rehearsals. Participation in the WSMA Solo/Ensemble Festival is strongly encouraged. Field trips are possible.

## **BELLA VOCE** 6431

**Credit:** 1                   **Level:** 11,12

**PREREQUISITE:** Audition

**APPROXIMATE FEES:** \$20 uniform fee; outfit must be professionally dry-cleaned at the end of the year; fundraising efforts are expected

**NOTE:** Evening performance commitments occur throughout the year. Attendance is required.

**COURSE DESCRIPTION:** Open to treble voices 11<sup>th</sup>-12<sup>th</sup> grade with a serious interest in vocal development and exploration of challenging SSAA literature. Audition only. Ensemble will explore all aspects of treble literature, from Madrigal to Vocal Jazz. Some movement or dance may be incorporated.

## **A CAPPELLA CHOIR** 6441

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

**PREREQUISITE:** Audition

**APPROXIMATE FEES:** \$20 uniform fee; outfit must be professionally dry cleaned at the end of the year; fund-raising efforts are expected

**NOTE:** Evening performance commitments occur throughout the year. Attendance is required.

**COURSE DESCRIPTION:** Group will be open to 10<sup>th</sup>-12<sup>th</sup> grade. Mixed voice choir. SATB who demonstrate advanced sight reading skills and tonal memory. Admission by audition only. Ensemble will explore Madrigal and Renaissance era repertoire (to cover caroling expectations of community and Solo Ensemble requirements) first semester as well as Gospel, contemporary classical literature (ex. Eric Whitacre) and Contemporary A cappella (pop music) second semester. Some movement/dance may be incorporated. Group will occasionally combine with Concert Choir to explore large compositions of the Masters (ex. Vivaldi "Gloria", Schubert Mass in G).

## **MARCHING BAND** 6500

**Credit:** None                   **Level:** 9,10,11,12

**PREREQUISITE:** Consent of teacher

**APPROXIMATE FEES:** \$162 for Band Camp, uniform and travel expenses

**NOTE:** The student provides his/her own black socks.

**COURSE DESCRIPTION:** This course number is used to schedule Concert Band (6510) students and non-band Color Guard students who wish to participate in Marching Band. During the first quarter of Marching Band, students are provided a study hall during their Concert Band time as Marching Band students are scheduled to practice with Symphonic Band students when Symphonic Band meets. Upon completion of Marching Band during the second quarter, students report to the study hall that meets in place of the Symphonic Band time.

## **CONCERT BAND 6510**

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

**PREREQUISITE:** Consent of teacher

**APPROXIMATE FEES:** TBD

**NOTE:** The student provides his/her own black socks.

**COURSE DESCRIPTION:** Concert Band is the standard instrumental music course offered. It requires no audition. Members may choose to march with the Symphonic Band. If accepted, the student must sign up for both Concert and Marching Bands. Students in Concert Band who register for Marching Band will still maintain their study hall if registered for one. The student's first quarter will be spent in marching practice with Symphonic Band and will report to study hall the remaining quarters. All students may elect to join Pep Band for basketball games and enter the WSMA Solo/Ensemble Festival. Concert Band has its own identity throughout the year at concerts and performs in the stands at football games. **Attendance is required at all events in which the band participates as a unit.**

## **SYMPHONIC BAND 6520**

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

**PREREQUISITE:** Consent of teacher

**APPROXIMATE FEES:** \$162 for Band Camp, uniform and travel expenses

**NOTE:** The student provides his/her own black socks.

**COURSE DESCRIPTION:** Symphonic Band is for advanced-ability students. Members perform several public concerts, participate in band festivals and clinics, produce a marching field show the first quarter, perform at football games, Memorial Day Services, and the 4th of July parade. Band members are eligible to participate in the WSMA Solo/Ensemble Festival. **Attendance is required at all events in which the band participates as a unit.** Overnight band trips may be planned on a semi-regular basis, but participation is optional.

## **JAZZ ENSEMBLE 6530**

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

**PREREQUISITE:** Audition and written consent of teacher

**APPROXIMATE FEES:** Cost of overnight trips; extra brass mutes

**NOTE:** Students must be members of Concert or Symphonic Band unless they play a non-band instrument such as guitar, bass guitar, or piano.

**COURSE DESCRIPTION:** Jazz ensemble performs in concerts and competitive events. The group explores improvisation and music in the jazz idiom. The roots and historical perspective of jazz are presented throughout the year.

## **MUSIC THEORY 6610**

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

**PREREQUISITE:** Ability to read music, either clef; enrollment in a music performance class or written consent of teacher

**APPROXIMATE FEES:** 100 MB Zip disk; manuscript paper

**NOTE:** Class size is limited to 12 students

**COURSE DESCRIPTION:** Music Theory is a class for serious music students. The class explores the musical elements of melody, rhythm, harmony, and form. Musical compositions are analyzed; writing exercises are used to learn common tonal part-writing practices which were developed in the 18th Century. Aural skills are developed in order to recognize intervals and chord quality. Musical keyboarding skills are taught enabling students to play basic accompaniments. Students utilize computer software for ear-training exercises and musical composition assignments.

# PHYSICAL EDUCATION & HEALTH

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

**PE 9  
Required**



<b>Group A (Required)</b>	<b>Group B</b>
Lifetime Wellness	Individual Sports
Lifeguarding	Team Sports
Intro to Yoga	Net Games
Strength & Conditioning I & II	Outdoor Education
<b><i>To fulfill graduation requirements 10th, 11th &amp; 12th Graders: Complete one course from Group A and an additional course from either Group A OR B.</i></b>	
<b><i>Students also have the option to earn their final .5 credit via the WIAA waiver prior to their senior year.</i></b>	

## **HEALTH 9010**

**Credit:** ½                      **Level:** 9

**REQUIRED COURSE:** Yes

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$20 for CPR Certification

**COURSE DESCRIPTION:** This course is a basic guide to healthful living. Course content includes topics from three areas of health: physical health, social health, and mental health. Students become more aware of and responsible for their own health and wellness. The course includes units on wellness, personal health, mental and emotional health, nutrition, substance use and abuse, consumer health, accident and safety prevention, and human growth and development.

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## **PHYSICAL EDUCATION REQUIREMENTS**

Students are required to complete three physical education courses over three separate years. Below are the requirements and options:

- **Course 1:** Physical Education 9 can be completed in two ways: Summer School OR, during the school year.
- **Course 2:** 10-12 graders are required to choose one course from group A to meet graduation requirements.
- **Course 3:** 10-12 graders choose an elective from either group A or B

### **WIAA Waiver Option**

*Under state statute 118.33 (1) (e) A school board may allow a pupil who participates in sports or in another organized physical activity, as determined by the school board, to complete an additional 0.5 credit in English, social studies, mathematics, science, or health education in lieu of 0.5 credit in physical education.* Students may therefore complete a [WIAA Waiver form](#) to fulfill Course 3 above. CSD Waiver requirements, which requires two years of successful participation in a CHS WIAA sport, are available at the Counseling Office.

### **Elective Course Options**

Students may take additional Physical Education courses as their schedule permits. Example: If a student took the *Physical Education 9 Summer School Course*, then they could take either Lifetime

Wellness OR Strength Training their Freshman year as an elective. **NOTE:** This additional elective course does not fulfill Course 3 requirements above UNLESS completed after freshman year.

## **PHYSICAL EDUCATION 9-SUMMER 9109**

**Credit:** ½                      **Level:** 9

**REQUIRED COURSE:** Yes

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is the same required Physical Education 9 course offered during the school year (see description for Physical Education 9 #9110 below), but instead offered over the summer. Students enrolling in 9th grade at CHS, are eligible to enroll in this course in lieu of taking PE 9 their Freshman year. Satisfactory completion of this course will meet the Grade 9 PE requirement, allowing students to either take an elective PE course their Freshman year or substitute another course into their schedules. **Students will not be allowed to take another study hall.**

### **Attendance Requirements:**

Attendance at CHS Summer Session is a serious commitment due to the way the course has been designed. What traditionally is offered over three months during the school year, is now offered over five weeks. One period/day of a Summer Session course is the equivalent to approximately two and a half class sessions of a regular school year course. Absences will require written verification of the absence from a parent/guardian. **Should a student be absent for 3 days, they will be dropped from the course and enrolled in PE 9 during the upcoming school year. Three tardies is equivalent to one absence.** Students should not participate in this summer school course if they have other commitments such as trips, camps, extended planned absences.

## **PHYSICAL EDUCATION 9 9110**

**Credit:** ½                      **Level:** 9

**REQUIRED COURSE:** Yes

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Freshman Physical Education consists of a variety of lifetime, individual, and team oriented activities. Daily activities will incorporate the five components of health-related

fitness: cardiovascular endurance, muscular endurance, muscular strength, flexibility. The units offered include: **Invasion Games:** soccer, basketball, ultimate frisbee; **Striking and Fielding:** softball, kickball, football; **Net and Wall games:** volleyball, tennis, badminton, pickleball

**Fitness:** dance, swimming, water safety, weight room. Physical Education 9 will emphasize the importance of daily fitness, skill development and sportsmanship.

## **PHYSICAL EDUCATION COURSES AVAILABLE FOR ½ CREDIT REQUIRED GRADE 10/11/12 CREDIT:**

### **TEAM SPORTS 9131**

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

**REQUIRED COURSE:** Can fulfill required physical education course 3.

**PREREQUISITE:** Physical Education 9,

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will participate in a variety of team sports. The emphasis of this class will focus on lifetime and recreational activities and the continued development of overall fitness. The following activities in this class include but are not limited to: football, soccer, Nerf games, Ultimate Frisbee, team handball, floor hockey, eclipse ball, kickball, wiffle ball, softball, basketball, volleyball, and fitness. Each unit will give instruction on skill, strategy, and relevant fitness concepts.

### **NET GAMES 9132**

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

**REQUIRED COURSE:** Can fulfill required physical education course 3.

**PREREQUISITE:** Physical Education 9

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** Students will participate in a variety of net and racquet games. The emphasis of this class will focus on lifetime and recreational activities and the continued development of overall fitness. The following activities in this class include but are not limited to: badminton, tennis, pickleball, table tennis, volleyball, eclipse ball and water net games. Each unit will give instruction on skill, strategy, and relevant fitness concepts.

### **INDIVIDUAL SPORTS 9133**

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

**REQUIRED COURSE:** Can fulfill required physical education course 3.

**PREREQUISITE:** Physical Education 9

**APPROXIMATE FEES:** \$72.00 (paid at registration); fee pays for busing, golf and bowling fees

**COURSE DESCRIPTION:** Students will participate in a variety of individual sports. The emphasis of this class will focus on lifetime and recreational activities and the continued development of overall fitness. The following activities in this class include but are not limited to: golf, tennis, badminton, pickleball, disc golf, bowling, table tennis, archery, and personal fitness. Each unit will give instruction on skill, strategy, and relevant fitness concepts.

### **STRENGTH AND CONDITIONING I 9150**

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

**REQUIRED COURSE:** Can fulfill required physical education course 2 or 3.

**PREREQUISITE:** Physical Education 9

**APPROXIMATE FEES:** None

**NOTE:** This course can be taken multiple times for credit.

**COURSE DESCRIPTION:** Students will learn about weight training/human movement science while also participating in a wide variety of strength training and conditioning activities. Students will explore human muscle anatomy, principles of fitness, exercise testing, and numerous types of fitness training. This class will be held in the fitness center and Field House.

### **STRENGTH AND CONDITIONING II 9151**

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

**REQUIRED COURSE:** Can fulfill required physical education course 2 or 3.

**PREREQUISITE:** Physical Education 9, Strength and Conditioning 1

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** The advanced unit for strength training will concentrate on larger strength gains and more advanced training methods and techniques. Lifting form is still emphasized and important, however a shift to more intensity (workload/overload) in the program will be necessary to achieve larger strength gains. Speed & agility training will continue to be utilized in this course in order to maximize personal growth.

### **LIFETIME WELLNESS 9160**

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

**REQUIRED COURSE:** Can fulfill required physical education course 2 or 3.



**PREREQUISITE:** Physical Education 9  
**APPROXIMATELY FEES:** \$61.00 (paid at registration)

**COURSE DESCRIPTION:** This course explores personal fitness and wellness as a healthy, lifelong practice. Students will engage in all components of health-related fitness, while participating in activities appropriate at any age. Class activities include, but are not limited to: biking, aerobics, yoga, Pilates, kickboxing, snowshoeing, scuba diving, Zumba and more! This class also includes an American Red Cross CPR-First Aid Training unit. Certification is received upon successful completion.

### **OUTDOOR EDUCATION 9170**

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

**REQUIRED COURSE:** Can fulfill required physical education course 3.

**PREREQUISITE:** Physical Education 9  
**APPROXIMATELY FEES:** \$62.00 (paid at registration); pays for curling, busing and scuba diving fees

**COURSE DESCRIPTION:** Outdoor Education will allow students to investigate and explore activities related to outdoor and recreational activities that could be utilized throughout their lifetime. Units would include, but are not limited to the following: biking, curling, kayaking and canoeing, rock climbing, fishing, archery, disc golf, snorkeling and scuba diving, snowshoeing, and outdoor survival.

### **LIFEGUARD TRAINING 9180**

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

**REQUIRED COURSE:** Can fulfill required physical education course 2 or 3.

**PREREQUISITE:** Students must complete PE9, must be 15 years of age and must pass pre-course swim test consisting of a 300 yard swim (crawl/breaststroke), tread water for 2 minutes using only your legs, retrieve 10 lb. object and swim 20 yards with it using your legs only.

**APPROXIMATELY FEES:** The cost of the course is \$89.00 per student which includes: a lifeguard

textbook, personal pocket mask for breathing emergencies and CPR, an individual first aid kit, lung bag and ARC certification in Lifeguarding, First Aid and CPR Pro/AED.

**COURSE DESCRIPTION:** The American Red Cross (ARC) Lifeguard Training course teaches lifeguard candidates the skills and knowledge need to prevent and respond to aquatic emergencies. Course content and activities prepare candidates to recognize and respond quickly and effectively to emergencies and prevent drownings and injuries. Course time is allotted for basic lifeguard training, CPR, first aid, and AED training. Maturity, self-motivation, self-evaluation and knowledge of the basic swim strokes are essential attributes for this course.

### **INTRO TO YOGA 9190**

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

**REQUIRED COURSE:** Can fulfill required physical education course 2 or 3.

**PREREQUISITE:** Physical Education 9,  
**APPROXIMATELY FEES:** None

**COURSE DESCRIPTION:** This course will offer students the basic content/positions/breathing techniques and mindfulness practices of Yoga. Students will also learn the benefits of yoga and what they will gain from practice:

“Development of body awareness, learn how to use their bodies in a healthy way; manage stress through breathing, awareness, meditation and healthy movement; build concentration; increase their confidence and positive self-image; feel part of a healthy, non-competitive group.”

# SCIENCE

The CHS Science Department recognizes the need to help students become informed citizens who understand scientific issues that impact our society and the global environment. We also believe that our students need to acquire scientific reasoning and thinking skills in order to become lifelong learners able to apply reasoning skills to solving problems.

**\*Students must take 3 credits of science to meet graduation requirements.**

Suggested core science sequence is in bold

(R) are required courses

(P) Course has a specific prerequisite.

9th	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
<b>Biology (R)</b> <b>Biology Honors (R)</b>	Anatomy & Physiology I (P) Anatomy & Physiology II (P) Astronomy (P) <b>Chemistry (P)</b> <b>Chemistry Honors (P)</b> Environmental Science (P) Principles of Chemistry (P) Principles of Physics (P) Geology Physics (P) Physics Honors (P) Zoology and Botany (P) AP Environmental Science (P)	Anatomy & Physiology I (P) Anatomy & Physiology II (P) Astronomy (P) Chemistry (P) Chemistry Honors (P) Environmental Science (P) Principles of Chemistry (P) Principles of Physics (P) Geology Materials Science (P) Organic Chemistry (P) <b>Physics (P)</b> <b>Physics Honors(P)</b> Zoology and Botany (P) AP Biology (P) AP Chemistry (P) AP Environmental Science(P) AP Physics (P) Science: From Copernicus to Hubble (P)	Anatomy & Physiology I (P) Anatomy & Physiology II (P) Astronomy (P) Chemistry (P) Chemistry Honors (P) Environmental Science (P) Principles of Chemistry (P) Principles of Physics (P) Geology Materials Science (P) Organic Chemistry (P) Physics (P) Physics Honors (P) Zoology and Botany (P) AP Biology (P) AP Chemistry (P) AP Environmental Science (P) AP Physics (P) Science: From Copernicus to Hubble (P)

## **BIOLOGY 3220**

**Credit:** 1            **Level:** 9

**REQUIRED COURSE:** Yes or Biology Honors (3221)

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$5 for lab supplies

**NOTE:** This required course contains strands of the Human Growth and Development curriculum.

Parents wishing to exempt their child from the study of Human Growth and Development should discuss with the instructor the material that will be covered.

**COURSE DESCRIPTION:** The biology class includes the study of ecology, biochemistry, cell structure and function, evolution, genetics, molecular genetics, DNA technology, classification, inheritance and microbiology. Students will gain knowledge and understanding of biological concepts, data and evolutionary principles that govern and unify biology. Students will also collect and use lab data to solve biological problems and apply the concepts learned in lecture. Students will gain hands-on technical skills in lab and will demonstrate the major principles and critical thinking necessary to better understand the interactions and interdependence of living organisms within and among their environments. Additionally, this course will focus on ACT science skill sets.

## **BIOLOGY HONORS 3221**

**Credit:** 1            **Level:** 9

**REQUIRED COURSE:** Yes or Biology (3220)

**PREREQUISITE:** Recommendation of current science teacher and meets science benchmark score on standardized tests

**APPROXIMATE FEES:** \$5 for lab supplies

**NOTE:** This required course contains strands of the Human Growth and Development curriculum.

Parents wishing to exempt their child from the study of Human Growth and Development should discuss with the instructor the material that will be covered.

**COURSE DESCRIPTION:** The Biology Honors curriculum will include the same topics as Biology (3220). Some differences include: more inquiry-based labs, more challenging homework assignments and assessments, and more challenging projects. Biology Honors is highly

recommended for students interested in taking Advanced Placement Biology.

## **PRINCIPLES OF CHEMISTRY 3300A**

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

**PREREQUISITE:** Biology (3220), Algebra 1 (2110); teacher recommendation

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This laboratory science course includes principles of chemistry with less emphasis on mathematical interpretation. Topics to be covered include graphing, factor label method, atomic structure, nuclear chemistry, quantum mechanics, ionic compounds, polyatomic ions, molecular structure and bonding, chemical reactions, and stoichiometry (mole concept). A key focus of this class will be to prepare students for success in Chemistry (3330).

## **PRINCIPLES OF PHYSICS 3300B**

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

**PREREQUISITE:** Biology (3220), Algebra 1 (2110); teacher recommendation

**APPROXIMATE FEES:** Possible field trip fee of approximately \$50

**COURSE DESCRIPTION:** This laboratory science course includes principles of physics with less emphasis on mathematical interpretation. Topics to be covered include Newton's Laws of Motion, Laws of Conservation, circular motion, satellites, and wave properties of sound and light. A key focus of this class will be to prepare students for success in Physics (3620).

## **CHEMISTRY 3330**

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

**PREREQUISITE:** Completion of Biology (3220) or Biology Honors (3221) and completion or concurrent enrollment in Geometry Accelerated (2220) or higher.

**APPROXIMATE FEES:** \$5 for lab supplies

**NOTE:** Students will need a scientific non-graphing calculator. Proficiency in mathematics is essential since mathematical problem solving is an important part of the course.

**RECOMMENDED:** Math ASPIRE score of 428 or higher. This course is strongly recommended by many four-year colleges.



**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** Chemistry is the study of matter and its changes. Some topics of study are atomic and molecular structure, chemical reactions, stoichiometry (mole concept), states of matter, solutions, thermodynamics, and electrochemistry. Since analytical problem solving is a major part of this course, math proficiency is essential.

### **CHEMISTRY HONORS 3331**

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

**PREREQUISITE:** Completion of Biology (3220) or Biology Honors (3221) and completion or concurrent enrollment in Geometry Accelerated (2220) or higher.

**APPROXIMATE FEES:** \$5 for lab supplies

**NOTE:** Scientific non-graphing calculator required; proficiency in mathematics is essential since mathematical problem solving is an important part of the course.

**RECOMMENDED:** Highly recommended that students have math ASPIRE score of 432 or higher. Strongly recommended by many four-year colleges.

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** Chemistry Honors integrates the same topics as Chemistry (3330) but at a greater depth and focus on mathematical applications, data analysis, and predictions. There will be a stronger emphasis on critical problem solving and connections between units of study. Chemistry Honors is highly recommended for students interested in taking Advanced Placement Chemistry.

### **ZOOLOGY AND BOTANY 3405**

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

**PREREQUISITE:** Successful completion of Biology (3220) or Biology Honors (3221)

**APPROXIMATE FEES:** \$30 for dissection materials; possible field trip fee of approximately \$50

**RECOMMENDED:** Successful completion of Biology Honors (3221) or a C or higher in Biology (3220).

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should discuss with the instructor the material that will be covered.

**COURSE DESCRIPTION:** This course will cover diversity of life, with an emphasis on zoology and botany. It will involve hands-on dissection of multiple animals for the purpose of comparative studies of anatomical systems. Students will study both vertebrate AND invertebrate animals. Additionally, there may be a field trip to the Shedd Aquarium. Although the focus will be on the plant and animal kingdoms, the fungi and protists may also be discussed. Special focus will be on the adaptations and mechanisms of change.

### **ENVIRONMENTAL SCIENCE 3410**

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

**PREREQUISITE:** Successful completion of Biology (3220) or Biology Honors (3221)

**APPROXIMATE FEES:** \$5 for lab supplies.

Required field trip fee of approximately \$15.

**RECOMMENDED:** For students who have an interest in the environment.

**COURSE DESCRIPTION:** Environmental Science is for students who are interested in Earth's systems and how they are affected by human activity. Emphasis in the course is placed on an aquatic ecology project involving testing water quality and discovering relationships among aquatic organisms. This course involves lab and field work. We will also study environmental problems and how they are related to the political and social fabric of our lives and what are some possible solutions. This part of the class emphasizes reading and class discussion. There will be required hands-on projects, labs and field trips.

### **GEOLOGY 3430**

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

**PREREQUISITE:** None

**COURSE DESCRIPTION:** Geology is the study of rocks and minerals, plate tectonics, earthquakes, volcanoes, rock formations, and geologic time. This is primarily a lab-oriented course in which each student is expected to work cooperatively with other geology students.. An optional field trip (at the instructor's discretion) may be available if sufficient interest is demonstrated by the students.

### **ASTRONOMY 3450**

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

**PREREQUISITE:** Algebra I (2110)

**APPROXIMATE FEES:** Required field trip with an approximate fee of \$10

**COURSE DESCRIPTION:** This elective course will focus on the basic concepts of astronomy. It will focus on the motions of the Earth, constellations, gravitation and planetary motion, light, the life cycle of stars and objects in the solar system. Students will use inquiry to discover the principles of astronomy. This class requires students to work both independently and collaboratively and responsible completion of work. Students in this course will use computer modeling, physical modeling and telescopes to expand their understanding of the known universe. This course also includes a field trip to the planetarium and nighttime observations to enhance the classroom experience.

### **ANATOMY & PHYSIOLOGY 1      **3470****

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

**PREREQUISITE:** Completion of Biology Honors (3221) or Biology (3220)

**APPROXIMATE FEES:** \$15.00 for dissection supplies

**RECOMMENDED:** Successful completion of Biology Honors (3221) or a C or higher in Biology (3220); For students interested in a medical or veterinary field.

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should instruct their child to select another elective course.

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** This course is for students who are interested in furthering their knowledge of the structure and function of the human body systems. This course includes units on the integumentary, cardiovascular, blood, and muscular systems. Major tissue types and body systems relationships are also covered. The course includes labs, activities, projects and dissections.

### **ANATOMY & PHYSIOLOGY 2      **3480****

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

**PREREQUISITE:** Completion of Biology Honors (3221) or Biology (3220)

**APPROXIMATE FEES:** \$15 for dissection supplies; additional field trip fee is possible.

**RECOMMENDED:** Completion of Anatomy & Physiology 1 (3470); Successful completion of Biology Honors (3221) or a B or higher in Biology (3220).

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should instruct their child to select another elective course.

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** This course is for students who are interested in furthering their knowledge of the structure and function of the human body systems. This course includes units on the nervous, digestive, respiratory, special senses and urinary systems. The course includes labs, activities, projects and dissections.

### **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE      **3420****

**CREDIT:** 1 (Weighted grade)

**LEVEL:** 10,11,12

**PREREQUISITE:** Successful completion of Biology (3220) or Biology Honors (3221) with a B or higher. Strongly recommend completion or concurrent enrollment in Chemistry (3330) or Chemistry Honors (3331)

**APPROXIMATE FEES:** \$30 for lab supplies; additional \$25 for possible required field trip expenses; \$94 for the AP Environmental Science Examination (optional, but an expectation)

**NOTE:** Calculator required (see instructor)

**COURSE DESCRIPTION:** The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying

constructs, or themes, that cut across the many topics included in the study of environmental science. The themes provide a foundation for the structure of the A.P. Environmental Science course. It is an expectation that students will take the Advanced Placement Environmental Science Examination; performance on the test determines possible college credit.

## **ADVANCED PLACEMENT**

### **BIOLOGY 3490**

**Credit:** 1½ (Weighted grade) **Level:** 11,12

**PREREQUISITE:** Successful completion of Biology (3220) or Biology Honors (3221) and Chemistry (3330) or Chemistry Honors (3331)

**RECOMMENDED:** Successful Biology (3220) or Biology Honors (3221) with a B+ or higher

**APPROXIMATE FEES:** \$35 for lab supplies; \$94 for the AP Biology Examination (optional, but recommended)

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should discuss with the instructor the material that will be covered.

**COURSE DESCRIPTION:** This course covers the topics included in most freshman-level college biology classes. Critical thinking, reading, writing, and laboratory work are emphasized. Students should be college-bound, exceptionally motivated, and have a high level of competency in the prerequisite courses. It is an expectation that students will take the Advanced Placement Biology Examination; performance on the test determines possible college credit.

## **ADVANCED PLACEMENT**

### **CHEMISTRY 3530**

**Credit:** 1½ (Weighted grade) **Level:** 11,12

**PREREQUISITE:** Successful completion of Chemistry (3330) or Chemistry Honors (3331)

**APPROXIMATE FEES** \$10 for lab supplies; \$94 for the AP Chemistry Examination (optional, but an expectation)

**RECOMMENDED:** Successful completion of Chemistry (3330) or Chemistry Honors (3331) with a B+ or higher and Algebra II Accelerated (2340) or higher

**NOTE:** Calculator required (see instructor)

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**COURSE DESCRIPTION:** AP Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The pace and depth of study is far greater than the introductory course (3331), with major new topics. It is an expectation that students will take the Advanced Placement Chemistry Examination; performance on the test determines possible college credit.

### **ORGANIC CHEMISTRY 3550**

**Credit:** ½ **Level:** 11, 12

**PREREQUISITE:** Successful completion of Chemistry (3330) or Chemistry Honors (3331)

**APPROXIMATE FEES:** \$10 for lab supplies

**RECOMMENDED:** For students interested in chemistry, biology, or medical careers

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** This course is an introduction to the chemistry of carbon compounds. Topics covered include mixture separation, isomerism, mechanisms, reactions, and synthetic strategy. An emphasis is placed structure and naming of organic compounds. This is a lab intensive course.

### **MATERIALS SCIENCE 3560**

**Credit:** 1/2 **Level:** 11,12

**PREREQUISITE:** Completion of Chemistry (or Honors Chemistry), or C or higher in Principles of Chemistry and Physics (both semesters)

**APPROXIMATE FEES:** \$15 for lab supplies

**COURSE DESCRIPTION:** Materials science involves the synthesis of new materials, developing improved processes for making materials and understanding the role of materials in our everyday lives. This course will focus on the fundamental relationship between structure, properties, processing and performance of materials using hands-on activities, readings and projects. Topics covered in the class include: structure and bonding, crystal structures, ionic compounds, metals, alloys, ceramics, glass, composites and polymers.

### **PHYSICS 3620**

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

**PREREQUISITE:** Successful completion of Algebra II (2340) or concurrent registration in Algebra II/Trigonometry (2250)

**APPROXIMATE FEES:** Scientific calculator required; field trip fee of approximately \$50

**RECOMMENDED:** Strongly recommended for college-bound students who expect to continue study in a science–related area

**NOTE:** Proficiency in mathematics is essential since problem solving is an important part of the course.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** Physics is the study of topics such as motion, force, projectiles, momentum, free fall, energy, electricity, magnetism, light, and sound. The course is based heavily on experiment and demonstration. Students will often use electronic equipment like force sensors and motion detectors in the lab to gather data and analyze it using technology. The year culminates with a trip to Six-Flags Theme Park in Illinois.

## **PHYSICS HONORS 3621**

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

**PREREQUISITE:** Completion of or concurrent registration in Honors Algebra II with Trigonometry (2250)

**APPROXIMATE FEES:** Scientific calculator required; Field trip fee of approximately \$50

**RECOMMENDED:** Strongly recommended for college-bound students who expect to continue study in a science–related area

**NOTE:** Proficiency in mathematics is essential since problem solving is an important part of the course.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** The Physics Honors curriculum will include the same topics as Physics. Some differences include: more inquiry-based labs, more challenging homework assignments and assessments, more challenging thought experiments and special topics. Physics Honors is highly recommended for students interested in taking Advanced Placement Physics the following year.

## **ADVANCED PLACEMENT PHYSICS 3650**

**Credit:** 1 (Weighted grade)      **Level:** 11, 12

**PREREQUISITE:** Physics (3620) or Physics Honors (3621), and concurrent registration with AP Calculus BC

**APPROXIMATE FEES:** Field trip fee of approximately \$50; \$94 for the AP Physics Examination (optional, but an expectation)

**RECOMMENDED:** Strongly recommended for college-bound students who expect to continue study in a science–related area

**NOTE:** Proficiency in mathematics is essential since problem solving is an important part of the course.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** Advanced Placement Physics will prepare students for a calculus-based Physics “C” Mechanics AP Exam. Advanced Placement Physics is highly recommended for students who wish to major in science and engineering.

## **SCIENCE: FROM COPERNICUS TO HUBBLE 3700**

**Credit:** ½      **Level:** 11, 12

**PREREQUISITE:** Successful completion of Chemistry

**APPROXIMATE FEES:** None

[VIDEO PREVIEW](#)

**COURSE DESCRIPTION:** In Copernicus, students will explore essential questions about the *nature* of science and the *history* of science. How do we really know what we claim to know? What is the function of a scientific Theory? The course is organized around a small number of significant topics from the history of physics, chemistry and biology, including The Theory of Gravity, the nature of Light, the behavior of Earth, Atomic Theory, and the Theory of Evolution. In group discussion, students will 1) assess our current understanding of a scientific idea, 2) investigate the arduous process that occurred to help us reach that understanding, and 3) rejoice in the thrill of what remains unexplained! In the process, students will study the life and contributions of about fifteen famous scientists from the Western world of the last 500 years or so, from Copernicus to Hubble. The course is reading and writing intensive, with an emphasis on contemplation of nature, knowledge, humanity.

# SOCIAL STUDIES

*The purpose of social studies is to help students make connections between the past and present, and to develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world.*

**\*Students must take 3 credits of social studies to meet graduation requirements\***

*A "Year" course is valued at 1 credit. A "Semester" course is valued at ½ or .5 credits.*

<p>To fulfill the CHS Social Studies graduation requirements, students must complete a course in each of the following four social sciences:</p> <p>Geography (Freshman year)                  Political Science-Civics (Sophomore year)                  US History (Junior year)                  Economics (Senior year)</p>			
<p><b>Freshman Year</b> Choose ONE</p> <p>Global Studies (year)</p> <p>AP Human Geography (year)</p>	<p><b>Sophomore Year</b> Choose ONE</p> <p>American Government (semester)</p> <p>AP American Government (year)</p>	<p><b>Junior Year</b> Choose ONE</p> <p>US History (year)</p> <p>AP US History (year)</p>	<p><b>Senior Year</b> Choose ONE</p> <p>Economics (semester)</p> <p>Honors Economics and Finance (year)</p> <p>AP Economics (year)</p>

<p>Students may take the following electives beginning Sophomore year:</p>	<p>Students may take these additional electives Junior or Senior year:</p>
<p>Ancient Civilizations (semester)</p> <p>Current Issues (semester)</p> <p>Sociology (semester)</p> <p>Psychology (semester)</p> <p>AP Psychology (year)</p> <p>AP World History (year)</p>	<p>Conflicts (semester)</p> <p>AP Comparative Politics &amp; Government (year)</p>
	<p>Additionally, the Social Studies Department also offers the Global Scholars program and certificate.</p> <p>(Students may begin this program Freshman year)</p>

Due to the rigors of writing in an AP course, any students enrolled in an AP Social Studies course should also be enrolled in the highest (pre-AP, AP) equivalent year/grade advanced English course.



## **GLOBAL STUDIES 4150**

**Credit:** 1

**Level:** 9

**REQUIRED COURSE:** This course or AP Human Geography

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$5 for periodicals

**COURSE DESCRIPTION:** In this course, students will explore how social studies involves a search for patterns which reflect human experiences. Laws, languages, institutions, arts, industries, political experiments, economic theories, religious quests, and military ambitions all project the image of that experience. In each regional (North America, Latin America, Caribbean, Sub Saharan Africa, Southwest Asia, North Africa, Europe, Central Asia, East Asia, Southeast Asia, Australia & Oceania and the Russian Domain) unit, students will study what has been, what is, and what might be, developing a curiosity about and sensitivity for the environment in which they live. The course will examine contemporary issues in relation to globalization, diversity, and the changing global environment.

## **ADVANCED PLACEMENT HUMAN GEOGRAPHY 4160**

**Credit:** 1 (Weighted grade) **Level:** 9,10

**REQUIRED COURSE:** This course or Global Studies

**PREREQUISITE:** Recommendation by 8th grade teacher; Concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is currently a Summer Assignment for this course made available in June and assessed in September.

**APPROXIMATE FEES:** \$5 for periodicals; \$94 for the AP Human Geography Examination (optional, but expected)

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

changing interconnections among places. Interested students may take the Advanced Placement Human Geography examination; performance on the test determines possible college credit. The UW-Madison may award up to three college credits. To see college credit criteria for the UW system visit [uwhelp.wisconsin.edu/testing/ap.aspx](http://uwhelp.wisconsin.edu/testing/ap.aspx).

## **AMERICAN GOVERNMENT 4230**

**Credit:** ½

**Level:** 10

**REQUIRED COURSE:** This course or AP Government and Politics

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course is designed to give students a working knowledge to become intelligent active participants in the American political process. In order to create this foundation, several areas will be covered. In general, the fundamental concepts, structures, and processes of the following will be utilized to increase students' knowledge: local and state governments, the Constitution, federalism, republicanism, and the influence of media and special interest groups on the mechanics of the modern political structure. Also, the historical and philosophical underpinnings of the United States Constitution and Bill of Rights will be used as a backdrop to highlight and explore the functioning of the American government through case studies. Throughout the semester, analytical and evaluative skills will be encouraged as they apply the content and to the personal experiences of the students.

## **ADVANCED PLACEMENT GOVERNMENT AND POLITICS 4240**

**Credit:** 1 (Weighted grade)

**Level:** 10,11,12

**REQUIRED COURSE:** This course or American Government

**PREREQUISITE:** Concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is no Summer Assignment currently planned for this course.

**APPROXIMATE FEES:** \$94 for the AP Government Examination (optional, but expected)

**COURSE DESCRIPTION:** Advanced Placement (AP) curriculum is designed to give students an analytical perspective on government and politics in the United States. Students will study both general concepts used to interpret U.S. politics and examine specific examples of those concepts. The AP Government course requires students to learn facts and concepts and understand typical political processes. The course will require students to



master historical and analytical skills, including; chronological and spatial thinking, historical research and interpretation. Students will evaluate viewpoints presented through major print and electronic media, understand statistical data and analyze trends related to significant political events.

Emphasis is placed on applying problem-solving and critical-thinking skills, interpreting graphs and tables, organizing information, evaluating information, and communicating orally and in writing. The course aims to help the student to participate effectively and democratically in the American political society. Interested students may take the Advanced Placement Government and Politics Examination; performance on the test determines possible college credit. The UW-Madison may award up to four college credits. To see college credit criteria for the UW system visit [uwhelp.wisconsin.edu/testing/ap.aspx](http://uwhelp.wisconsin.edu/testing/ap.aspx).

### **ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS 4241**

**Credit:** 1 (Weighted grade)      **Level:** 11,12

**NOTE:** This course does NOT fulfill the political science-Civics graduation requirement.

**PREREQUISITE:** Recommended concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is no Summer Assignment currently planned for this course.

**APPROXIMATE FEES:** \$94 for the AP Government Examination (optional, but expected)

**COURSE DESCRIPTION:** The course essentially covers both an introduction to comparative politics concepts and the application of these concepts to substantive content about six countries. The Course content includes facts about the six countries that form the core of the AP Comparative Government and Politics course -- Britain, China, Iran, Mexico, Nigeria, and Russia -- combined with the conceptual analysis that introduces different ways of organizing politics and their outcomes.

AP Comparative Politics helps students answer questions like: Why are some countries stable democracies and not others? Why do democracies have different party and electoral systems? How do citizens express their interests in an organized fashion, and why does this vary among countries? What is the impact of globalization on domestic politics and economics? What needs to exist before a vibrant civil society can develop in a formerly authoritarian system? What kinds of policies are pursued when governments seek to diminish social

inequality? What is the effect of great disparities in wealth and poverty on political order?

### **ANCIENT CIVILIZATION BC-1350 4210**

**Credit:** ½      **LEVEL:** 10,11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** In our Ancient Civilization course, we will study the emergence and the decline of the major civilizations of the ancient world. Beginning with the Paleolithic Era (about 2.5 million years ago) and finishing with the civilizations of the Americas. We will pay special attention to how societies evolved from fragmented and primitive agricultural communities to more advanced and consolidated civilizations. To do this, we will rely upon textbook readings to provide historical overviews of particular civilizations and then utilize primary-source documents to understand the unique features of these individual societies. By the end of the course, students will possess a thorough understanding of important overarching social, political, religious, and economic themes in the ancient world, ranging from the emergence of Confucian philosophy in Asia to the fall of imperial Rome.

### **ADVANCED PLACEMENT WORLD HISTORY: MODERN 4315**

**Credit:** 1 (Weighted grade)      **Level:** 10,11,12

**PREREQUISITE:** Recommended concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is no Summer Assignment currently planned for this course.

**APPROXIMATE FEES:** \$94 for the AP Examination (optional, but expected)

**COURSE DESCRIPTION:** AP World History focuses on developing students' abilities to think conceptually about world history and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions

## **UNITED STATES HISTORY 4110**

**Credit:** 1

**Level:** 11

**REQUIRED COURSE:** This course or AP United States History

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** The study of United States History in the eleventh grade is designed as a survey course framed to present academic content, concepts, and skills, and to foster the development of responsible citizens. The use of historical novels, primary source work, National History Day activities, as well as an emphasis on historical writing will ensure that students are propelled toward the development of higher level thinking. This course will highlight root causes and interconnections of events throughout America's past. Historical analysis will underscore economic, social, and political dynamics of American history through the interaction of diverse groups, the creation of a national identity, the rise of social movements, and the growth of federal institutions. US History will provide a brief review of American history from 1492 to 1898, then focus on the significance of the 20th century. Major topics will include American Imperialism, the Progressive era, World War I, the 1920s, the Great Depression, World War II, foreign and domestic consequences of the Cold War, Civil Rights and other social movements, the turmoil of the 1960s, the political and economic fallout of the 1970s, the conservatism of the 1980s, and post-Cold War events that continue to shape our world today.

## **ADVANCED PLACEMENT**

### **UNITED STATES HISTORY 4490**

**Credit:** 1 (Weighted grade)

**Level:** 11,12

**REQUIRED COURSE:** This course or US History

**PREREQUISITE:** Concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is currently a Summer Assignment for this course made available in June and assessed in September.

**APPROXIMATE FEES:** \$94 for the AP United States History Examination (optional, but expected)

**COURSE DESCRIPTION:** The A.P. program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon the student equivalent to those made by full-year introductory college courses. Interested students may take the Advanced Placement United States

History Examination; performance on the test determines possible college credit. The UW-Madison may award up to six college credits. To see college credit criteria for the UW system visit [uwhelp.wisconsin.edu/testing/ap.aspx](http://uwhelp.wisconsin.edu/testing/ap.aspx).

## **CURRENT ISSUES 4410**

**Credit:** ½

**Level:** 10,11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** In Current Issues, students study various dynamic issues facing today's society enabling students to discover their values and responsibilities as both citizens of the United States and global community. Through a rigorous examination of contemporary events, this course will apply the major social studies disciplines (civics, economics, geography, and history) to refine and strengthen skills in developing questions and planning inquiries, gathering and evaluating sources, developing claims and using evidence, communicating and critiquing conclusions, and taking informed action.

## **20<sup>th</sup> CENTURY CONFLICTS 4445**

**Credit:** ½

**Level:** 11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This course serves as an introduction to the study of International Relations. Through an exploration of both militaristic and diplomatic histories of American foreign policy, students will develop a comprehensive understanding of the American system of government, an awareness of the challenges implicit in the multiculturalism of the nation and an appreciation of the ways in which these American conflicts have shaped and continue to shape the lives of ordinary people. Learning activities and skill development include analysis of primary sources, discussion and debate, analytical writing, and library research. As a semester-long course, the basic content of the class includes the Cold War (1945-89), the post-Cold War era (1989-2001), and the post 9/11 era (2001 to the present). Within these eras students will specifically engage in the study of the Vietnam War, the War on Terror (Afghanistan and Iraq), and contemporary issues in American foreign policy.

## **SOCIOLOGY**

**4460**

**Credit:** ½ **Level:** 10,11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should instruct their child to select another elective course.

**COURSE DESCRIPTION:** The sociology course gives students a broad overview of social interaction and social problems. Students will consider cultures, religion, society, social classes and social organizations. Students will delve into issues such as gender roles, welfare, and population growth. Social ills and problems such as prejudice, sexism, ageism, racism, rape and drug dependency are studied. Due to controversial nature of some of the material studied and discussed, it is important that students enter the course with an objective and open mind.

## **PSYCHOLOGY** **4470**

**Credit:** ½ **Level:** 10,11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** None

**NOTE:** This elective course contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should instruct their child to select another elective course.

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** This semester course examines the basic concepts of individual thought and behavior. The semester is divided into seven different units of study, with each being evaluated through activities, quizzes, and objective examinations. The final evaluation may take the form of an exam, term paper, or research project. Some of the more popular topics include: Identity crisis, gender differences, sleep, ESP, motivation, personality, psychological disorders, and cliques. This course is geared toward students interested in learning more about themselves.

## **ADVANCED PLACEMENT PSYCHOLOGY** **4480**

**Credit:** 1 (Weighted grade) **Level:** 10,11,12

**PREREQUISITE:** Recommended concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is no Summer Assignment currently planned for this course.

**APPROXIMATE FEES:** \$94 for the AP Psychology Examination (optional, but expected)

**NOTE:** This course elective contains strands of the Human Growth and Development curriculum. Parents wishing to exempt their child from the study of Human Growth and Development should instruct their child to select another elective course.

**PATHWAY COURSE:** [Nursing](#)

**COURSE DESCRIPTION:** This year-long course examines the basic concepts of individual thought and behavior. The school year is divided into 14 different units of study, with each being evaluated through textbook quizzes, application-based examinations, and free response writing assignments. After learning how to plan, implement, and analyze ethical human research, students will also conduct projects. Mid-term and final examinations are also required, and non-exemptible. Some of the more popular topics include: parenting, death, hypnosis, memory, intelligence, stress, love, and subliminal messages. Due to the fast-paced nature of class discussion, consistent attendance and note-taking ability are crucial for comprehension and success in the course. This course is geared toward four-year college-bound students. The UW-Madison may award up to three college credits. To see college credit criteria for the UW system visit [uwhelp.wisconsin.edu/testing/ap.aspx](http://uwhelp.wisconsin.edu/testing/ap.aspx).

## **ECONOMICS** **4400**

**Credit:** ½ **Level:** 12

**REQUIRED COURSE:** This course or AP Economics or College Personal Finance (see Business Department)

**PREREQUISITE:** none

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** This semester-long course will help you understand the rules of the game of life in a market economy. We will study the key challenges presented by living in a world with scarce resources. By definition, economics is the study of how scarcity and incentives drive economic actors to make day-to-day decisions as well as difficult life choices. You will learn the basic concepts of the two major branches of economics: microeconomics and macroeconomics, as well as some key principles of basic personal finance and strategies for long term financial security. This will not only serve to benefit you as a stand-alone introduction to the discipline of economics and lay the groundwork for continued study in the field, but also as a primer for making more economically informed decisions.

## **ADVANCED PLACEMENT ECONOMICS**

**(MICROECONOMICS  
& MACROECONOMICS) 4405**

**Credit:** 1(Weighted grade)      **Level:** 12

**REQUIRED COURSE:** This course, Honors Economics and Finance, Economics, or College Personal Finance (see Business Department)

**PREREQUISITE:** Algebra II; Recommended concurrent enrollment in the highest (pre-AP, AP) equivalent year/grade advanced English course.

**SUMMER ASSIGNMENT:** There is no Summer Assignment currently planned for this course.

**APPROXIMATE FEES:** \$23 for AP workbook and licensed resources; \$94 for **EACH** AP Economics Examinations (Micro and Macro exams) (optional, but expected), \$182 if both exams are taken

**COURSE DESCRIPTION:** Advanced Placement Economics is a yearlong course that encompasses microeconomics and macroeconomics topics. The purpose of microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Microeconomic topics include: basic economic concepts, nature and function of product markets, factor markets, and market failure and the role of government. The purpose of macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price- level determination and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Macroeconomic topics include: basic economic concepts, measurement of economic performance, national income and price determination, financial sector, stabilization policies, economic growth, and international trade and finance. Advanced Placement Economics requires students to use mathematical equations and graphs to analyze data. Students will have the opportunity to take two AP exams, Microeconomics and Macroeconomics, in May.

**FINANCE 4401**

**Credit:** 1      **Level:** 12

**REQUIRED COURSE:** This course College Personal Finance, Economics, or AP Economics required for graduation

**NOTE:** College credit available for students who meet UW-Oshkosh eligibility standards

This course satisfies ½ credit of the three-credit Social Studies requirement

**APPROXIMATE FEES:** No fees **if not** taken for college credit; If taken for college credit, approximately \$300 for 3 college credits (roughly a \$700 discount).

**COURSE DESCRIPTION:** This course combines both the semester-long Economics and semester-long College Personal Finance courses into one year-long Honors Economics and Finance. The course is designed to provide enhanced coverage of the basic principles of Economics as well as the tenets (and UW-Oshkosh credit benefits) of College Personal Finance.

This two-semester course satisfies the ½ credit Personal Finance Graduation Requirement and offers the following:

The **Economics Semester** introduces students to a key discipline of the social sciences, the study of how individuals, firms, and societies choose to allocate their scarce resources. Students will develop a critical understanding of the economic way of thinking and an appreciation of the economic forces that shape human behavior and the global economy. Economics employs mathematics, statistics, and primary source data to examine important issues and to better understand how people make choices. Its dual micro and macro foci serve as a primer for college level economics.

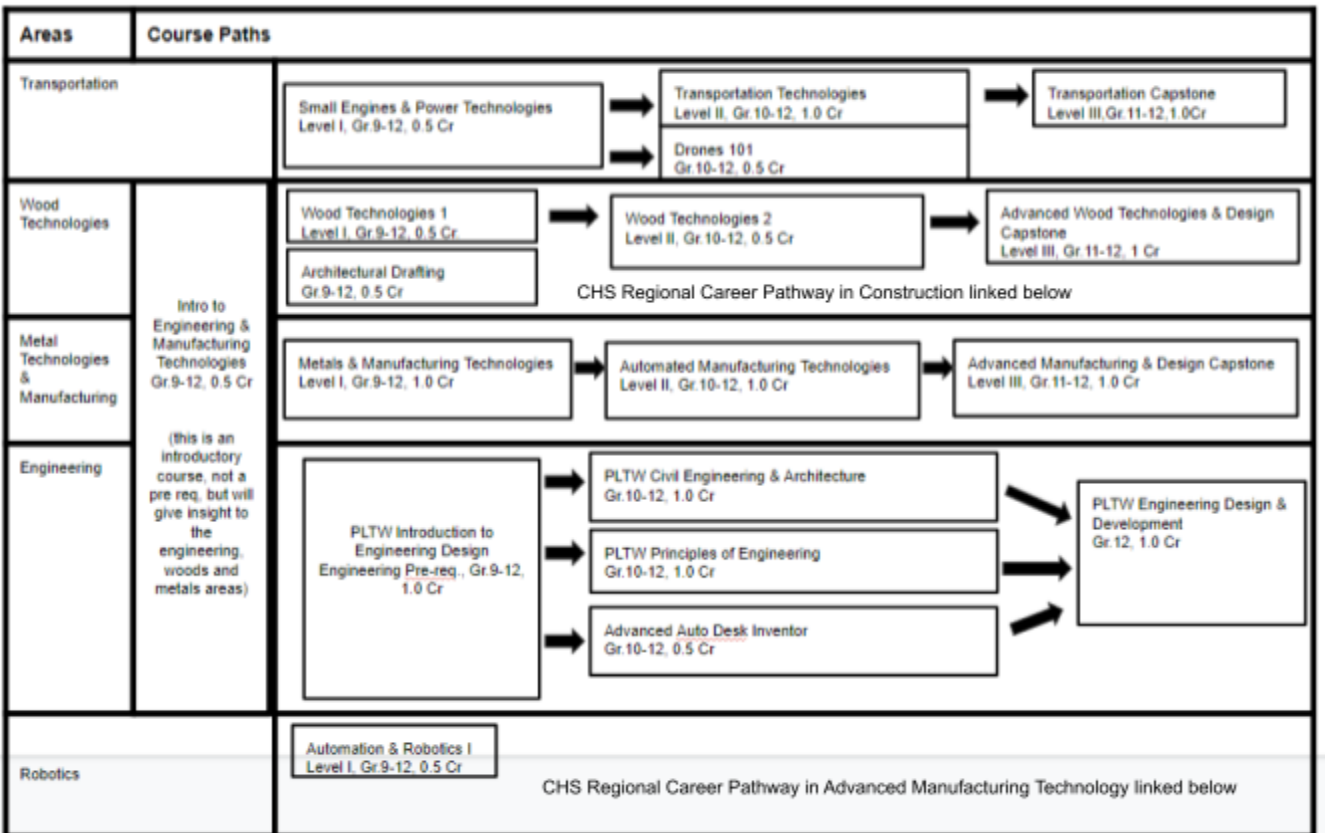
The **Personal Finance Semester** is designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Personal Finance students will experience real scenarios and use strategies covered in the course to help them make sound financial decisions. Students will design personal and household budgets, demonstrate knowledge of finance, debt, and credit understanding for making informed personal financial decisions. College Personal Finance is aligned with UW-Oshkosh's CAPP program and provides the opportunity for academically able students to earn college and high school credits concurrently.

**HONORS ECONOMICS AND**



# TECHNOLOGY & ENGINEERING EDUCATION

The mission of the Cedarburg High School Technology and Engineering Education Department is to provide students with the best technological resources, educational materials, and training that our students need to be prepared for the post-high school world of work and education.



[CHS ADVANCED MANUFACTURING TECHNOLOGY REGIONAL CAREER PATHWAY](#)  
[CHS CONSTRUCTION REGIONAL CAREER PATHWAY](#)

## **INTRODUCTION TO ENGINEERING AND MANUFACTURING TECHNOLOGIES** 8300

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

**PREREQUISITE:** None

**APPROXIMATE FEE:** \$10.00 for project materials

**COURSE DESCRIPTION:** Introduction to Engineering and Manufacturing Technologies is open to all boys and girls who would like to gain insight into the fields of engineering, design and manufacturing technologies. This course is not a prerequisite, but will give insight to the engineering, woods, and metals areas. This is a project-based, hands-on course.

## **TRANSPORTATION COURSES**

### **SMALL ENGINES AND POWER TECHNOLOGIES** 8100

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$10.00

**COURSE DESCRIPTION:** (Level 1 Transportation Course) Students in Small Engines and Power Technology will spend approximately nine weeks on general power technologies. Power Technologies is intended to acquaint students with the sources and forms of energy available now and what may be available in the future. Students will learn that there are often choices to be made about the most appropriate energy form to use. The energy conversion systems which change energy forms to meet human needs also will be studied.

Approximately nine weeks will be spent on two- and four-cycle engines. Small Engines will deal with the care and maintenance of equipment such as lawn mowers, weed whackers, leaf blowers, snow blowers, etc. Students will work towards a Briggs and Stratton Master Service Technician Certification. The official Briggs and Stratton MST test will be offered at the end of the course.

### **TRANSPORTATION TECHNOLOGIES** 8140

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

**PREREQUISITE:** Small Engines and Power Technologies (8100)

**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** (Level II Transportation Course) Students in Transportation Technologies will study a variety of systems of the automobile such as engine design, lubrication, cooling, fuel, ignition,

brake, and emission. Lab activities involve maintaining and testing the functions of each system. Students will work towards the completion of a National Institute for Automotive Service Excellence certification. The ASE Maintenance and Light Repair Certification will be offered at the end of the course.

### **TRANSPORTATION CAPSTONE** 8160

**Credit:** 1      **Level:** 11, 12

**PREREQUISITE:** Transportation Technologies formerly Automotive Service and Repair (8140); consent of teacher

**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** (Level III Transportation Course) The CHS Transportation Capstone is an event at the end of your high school career which allows you to showcase the skills you have developed in your transportation classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations. Projects can range from small engine rebuild, large automotive projects or collaboration projects.

Upon completion of this course, the student will develop a project of their own. Students will utilize all skills learned from previous courses as well as the design process to create a one of a kind personal project. Students will be encouraged to learn new high level skills and collaborate with outside sources to develop their project.

### **DRONE REMOTE PILOT CERTIFICATION** 2700

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

**PREREQUISITE:** Algebra I Accelerated

**APPROXIMATE FEES:** \$10.00

**COURSE DESCRIPTION:** (Level 1 Transportation Course) See [MATHEMATICS](#) for description.

## **WOOD TECHNOLOGY COURSES**

### **WOOD TECHNOLOGIES I** 8360

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$15.00 for project materials

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** (Level 1 Wood Technologies Course) Wood Technologies I is a course designed to introduce students to general woodworking practices. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, woodworking machinery and finishing processes. The projects are designed to give students as much experience as possible by using many different machines, tools, joinery and assembly processes. The projects will also cover as many aspects of the building and woodworking industries, including careers available, as is possible in an entry level course.

Upon successful completion of this course, the student will have woodworking skills that will be useful in any aspect of the construction and woodworking industry. Additionally, the student should have a broader understanding of construction and woodworking processes, as well as, more in depth problem solving skills and understanding of career pathways.

### **WOOD TECHNOLOGIES II 8361**

**Credit:** ½ **Level:** 10,11,12

**PREREQUISITE:** Wood Technologies I (8360)

**APPROXIMATE FEES:** \$40.00 for project materials

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** (Level 2 Wood Technologies Course) Wood Technologies II will cover advanced processes and techniques used in the manufacturing of furniture and other wooden products. Students will investigate and create tools, jigs and processes related to mass production and universal design. Students will expand on their level I knowledge on how to utilize a variety of tools, equipment and processes within the lab area. Students will go in depth into how to utilize different pieces of equipment for assembly, joinery and finishing processes. Throughout this course students will be crafting a project utilizing the same standards as modern woodworking manufacturing facilities.

Upon successful completion of this course students will be offered the Industry Recognized Certification, SawBlade Certification. Students will have advanced woodworking skills that can be useful in any aspect of the woodworking and construction career pathway, as well as, a well defined understanding of how to utilize these techniques for problem solving.

### **WOOD TECHNOLOGIES & DESIGN CAPSTONE 8380**

**Credit:** 1 **Level:** 11,12

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**PREREQUISITE:** Wood Technologies II (8361)

**APPROXIMATE FEES:** \$20.00-\$200 (based upon project made)

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** (Level III Wood Technologies Course) The CHS Wood Technologies Design Capstone is an event at the end of your high school woodworking career which allows you to showcase the skills you have developed in your Woodworking and Wood Technologies classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations. Projects can range from personalized cabinetry to storage buildings.

Upon completion of this course, the student will develop a project of their own. Students will utilize all skills learned from previous courses as well as the design process to create a one of a kind personal project. Students will be encouraged to learn new high level skills and collaborate with outside sources to develop their project.

### **ARCHITECTURAL DRAFTING 8430**

**Credit:** ½ **Level:** 9,10,11,12

**PREREQUISITE:** None

**APPROXIMATE FEES:** TBD

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** (Level I Wood Technologies Course) After successful completion of this course, students will be able to operate a CAD program (AutoCAD). Knowing how to use a CAD program can also help students who want to enter a construction career. Other career options will also be explored. Student will demonstrate how to complete several types of drawings, or plans of residential buildings. They will also learn the process of designing a home.

## **METAL TECHNOLOGIES & MANUFACTURING COURSES**

### **METALS & MANUFACTURING TECHNOLOGIES 8460**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$20.00



**COURSE DESCRIPTION:** Metals and Manufacturing is designed to introduce students with several of the major metalworking skill sets used in industry. Through activities and projects, this area of interest will equip high school students with the skills needed to understand what goes on in industry and what is necessary to prepare them for either the work force or next level of education. Experiences include introduction to industry standards regarding safety, machine operation and utilization, design and modeling, teamwork and advanced production. Performance requirements for this course are based on successful student completion of projects and activities according to the National Institute for Metal-Forming Skills (NIMS) standards. This class is project based and is fun and exciting and can open up new pathways for individuals to pursue other technical classes at Cedarburg. Whether a student is interested in metal technology, machining, computer design and development, engineering, or project construction, this class will provide an excellent introduction to the world of metals and manufacturing industry.

### **AUTOMATED MANUFACTURING TECHNOLOGIES 8480**

**Credit:** 1 each      **Level:** 10,11,12  
**PREREQUISITE:** Metalworking (8460)  
**APPROXIMATE FEES:** \$20.00

**COURSE DESCRIPTION:** This class builds upon the skills and knowledge from Intermediate Metals. Students will be exposed to more complicated welding assignments where marketable skills is the goal. Assigned projects will follow applications which focus on National Institute for Metal-Forming Skills (NIMS) standards and certification procedures. This course also allows students to apply original design ideas to several of the different CNC/machining projects which they will fabricate in the shop. Students will also explore career opportunities and be provided with options to advance their skills to be successful in private industry, other advanced Cedarburg technology/engineering courses, or school clubs such as Robotics, Formula 1 Race Team, Wisconsin Youth Apprenticeship Program, and many others.

### **ADVANCED MANUFACTURING & DESIGN CAPSTONE 8499**

**Credit:** 1      **Level:** 11,12  
**PREREQUISITE:** Automated Manufacturing Technologies (8480)  
**APPROXIMATE FEES:** \$20.00  
**PATHWAY COURSE:** [Advanced Manufacturing](#)

**COURSE DESCRIPTION:** (Level III Metal Technologies & Manufacturing Course) The CHS manufacturing design capstone is an event at the end of your high school career which allows you to showcase the skills you have developed in your metalworking and advanced metalworking classes. This is a dynamic class that allows you to develop an individual project of your choice that demonstrates the skills you have developed during your high school career. The purpose of capstone is to connect your learning to a personal interest that you believe may be relevant to your post high school interests, goals, and aspirations.

### **ROBOTICS COURSES**

#### **AUTOMATION & ROBOTICS I 8600**

**Credit:** ½      **Level:** 9,10,11,12  
**PREREQUISITE:** None  
**APPROXIMATE FEES:** None  
**PATHWAY COURSE:** [Advanced Manufacturing](#)

**COURSE DESCRIPTION:** (Level I Robotics Course) Automation & Robotics I is a course designed to give students an overview of robotics, mechanisms, motion and automation. In this modular and project-based course students will learn the design process in an engaging, hands-on manner to help challenge, motivate, and inspire their work. As students build they will explore mechanical systems, energy transfer, machine automation, and computer control systems. By moving through an actual engineering project, students quickly understand the relevance of what they are learning. Using the VEX Robotics® platform, students apply what they know to design and program an automated factory assembly line.

Upon completion of this course students will have an understanding of how to utilize the engineering and design problem solving process. Students will also have an understanding of how to calculate, utilize and describe a gear ratios and mechanisms to solve problems.

## **ENGINEERING COURSES**

### **PLTW: IED**

#### **(Introduction to Engineering Design) (Project Lead the Way) 8510**

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

**PREREQUISITE:** None; must meet college eligibility requirements to take for college credit.

**APPROXIMATE FEES:** \$15.00 if not taken for college credit; approximately \$215 for 3 college credits. Significant college credit savings.

**NOTE:** MSOE course: GE 1002 - Introduction to Engineering Design. Participation in the PLTW program (MSOE) is an individual option and requires a fee for the tuition payable to the university.

Participants who successfully complete the course receive three college credits in addition to the high school credit earned if enrolled in.

Colleges and universities across the U.S. recognize and reward PLTW students for their great work.

These postsecondary institutions recognize PLTW students with scholarships, admissions preference, course credit, and more.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**COURSE DESCRIPTION:** (Level I Engineering Course) Learn to apply the processes that are used in engineering design. Students will be introduced to the philosophy of technical problem solving. Students will study and practice brainstorming, sketching, geometric solids, measurement, materials, 3D CAD, dimensioning, and isometric drawings. Communication skills, which include sketching, technical drawing, report writing, and presentations will be addressed. Students will work in teams to solve problems that are influenced by consumer, marketing, and technical considerations. This is a hands-on laboratory and computer intensive course that will allow students to experience design and technology issues. Projects include: Puzzle Cube, Custom LEGO brick, Toy Train and Reverse Engineering Display.

### **ADVANCED AUTODESK INVENTOR 8515**

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

**PREREQUISITE:** Intro. to Engineering Design

**APPROXIMATE FEES:** None

**COURSE DESCRIPTION:** PLTW programs across the United States introduce students to 2D and 3D design skills by teaching them the basic use of the state-of-the-art Autodesk design software. By completing the Advanced AutoCad Inventor course,

students can earn an industry-recognized certification known as Autodesk Certified User (ACU). An ACU demonstrates proficiency in Autodesk design skills required for a number of professional careers. ACU certification is the perfect way for students to expand their interest and knowledge in the field of design. Becoming Autodesk certified makes students more attractive to potential employers and better prepares them for their future education and career pursuits. ACU certification confirms students have the skills necessary to continue their design careers-whether they attend college, enter the workforce or work toward additional levels of industry certification after graduation. Projects include the design and construction of a mechanical toy using the laser engraver and 3D printer.

### **PLTW: PRINCIPLES OF ENGINEERING (Project Lead the Way) 8520**

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

**PREREQUISITE:** Intro. to Engineering Design (IED 8510), or Instructor Permission. Also, concurrently enrolled in a college preparatory math course; must meet college eligibility requirements to take for college credit.

**APPROXIMATE FEES:** \$15.00 if not taken for college credit; approximately \$215 for 3 college credits. Significant college credit savings.

**NOTE:** MSOE course: GE 1001 - Principles of Engineering. Participation in the PLTW program (MSOE) is an individual option and requires a fee for the tuition payable to the university. Participants who successfully complete the course receive three college credits in addition to the high school credit earned if enrolled in. Colleges and universities across the U.S. recognize and reward PLTW students for their great work. These postsecondary institutions recognize PLTW students with scholarships, admissions preference, course credit, and more.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**COURSE DESCRIPTION:** (Level II Engineering Course) Learn to apply math, science, and systems principles that are the basis for engineering. Students will be introduced to the history and disciplines of engineering. Students will study and practice Engineering Systems, Materials, Reliability, and Kinematics. Communication skills, which include sketching, technical drawing, report writing, and presentations will be addressed. Students will work in teams to solve problems that are influenced by financial, social, and environmental

considerations. This is a hands-on laboratory and computer intensive course that will allow students to experience business and technology issues. Projects include: Rat Trap Vehicle, VEX Robots, Balsa wood Tower/Truss and Ping Pong Ball launcher

## **PLTW: CIVIL ENGINEERING AND ARCHITECTURE**

**(Project Lead the Way) 8550**

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

**PREREQUISITE:** Intro. to Engineering Design (IED), or Instructor Permission. Also, concurrently enrolled in a college preparatory math course; must meet college eligibility requirements to take for college credit.

**APPROXIMATE FEES:** \$15.00 if not taken for college credit; approximately \$215 for 3 college credits. Significant college credit savings.

**NOTE:** MSOE course: GE 1006 - Civil Engineering and Architecture. Participation in the PLTW program (MSOE) is an individual option and requires a fee for the tuition payable to the university. Participants who successfully complete the course receive three college credits in addition to the high school credit earned if enrolled in. Colleges and universities across the U.S. recognize and reward PLTW students for their great work. These postsecondary institutions recognize PLTW students with scholarships, admissions preference, course credit, and more.

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**PATHWAY COURSE:** [Construction](#)

**COURSE DESCRIPTION:** (Level II Engineering Course) This overview of the fields of civil

engineering and architecture emphasizes the inter-relationship and mutual dependence of both fields. Students use state-of-the-art software to solve real world problems and apply knowledge to hands-on projects and activities. By developing and implementing plans for a playground/park or vacation home for example, students experience firsthand the job responsibilities of architects and civil engineers. By the end of the course, students are able to give a complete presentation to the client including three-dimensional renderings of buildings and improvements, zoning and ordinance constraints, infrastructure requirements, and other essential project plans.

## **PLTW: ENGINEERING DESIGN AND DEVELOPMENT**

**(Project Lead the Way) 8570**

**Credit:** 1      **Level:** 12

**PREREQUISITE:** Intro. To Engineering Design (IED) and one other PLTW course

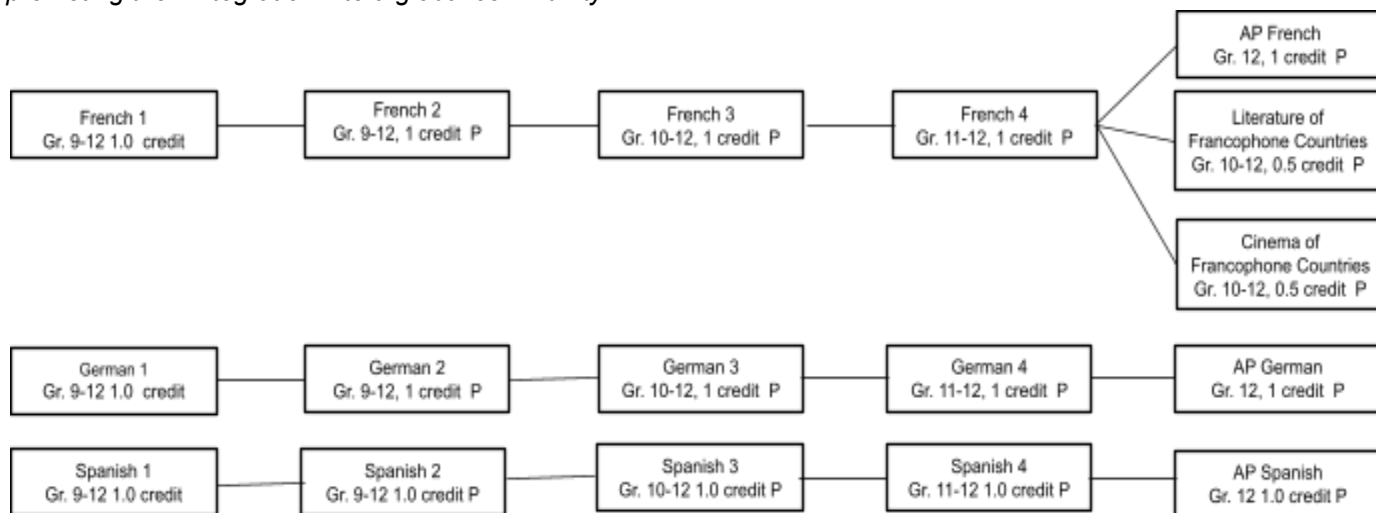
**APPROXIMATE FEES:** \$15

**PATHWAY COURSE:** [Advanced Manufacturing](#)

**COURSE DESCRIPTION:** (Level III Engineering Course) In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel.

# WORLD LANGUAGES

As a World Language Department, we improve the linguistic skills and cultural awareness of our learners, while promoting their integration into a global community.



P = This course has a prerequisite.



## **FRENCH 1** **5110**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$4 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** French 1 is an introduction to the language and culture of French-speaking countries. Lessons in French 1 engage beginning language learners in activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native French speakers. Activities encompass all three communicative modes (interpersonal,

interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will learn to obtain, understand, exchange and present basic information. You will be able to ask and answer questions about various topics such as self, family, school activities, leisure activities, and weather. You will connect with other content areas to obtain new and unique perspectives, make basic linguistic and cultural comparisons between your own language and French, and participate in a variety of cultural activities. **The majority of class is taught in French at a level appropriate pace.**



## **FRENCH 2** **5120**

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

**PREREQUISITE:** French 1 (5110)

**APPROXIMATE FEES:** \$4 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** French 2 engages students in using the language in activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native French speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will learn to make suggestions, ask and answer increasingly complex questions about a variety of topics, relate orally and in writing a series of present, past and future events, and express opinions and advice. You will read short literary passages (e.g. stories and poems) and write emails and extended responses to reading. You will apply information gathered from authentic French sources for information, entertainment, and personal enrichment, and analyze and explain cultural and linguistic perspectives unique to francophone culture. **The majority of class is taught in French at a level appropriate pace. As the year progresses, students are increasingly responsible for using French in class.**

## **FRENCH 3** **5130**

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

**PREREQUISITE:** French 2 (5120)

**APPROXIMATE FEES:** \$4 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** French 3 engages students in fully using the language in activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native French speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will learn to make suggestions, ask and answer increasingly complex questions about a variety of topics, relate orally and in writing a series of past, current, future, and hypothetical events, and express opinions and advice. You will read longer literary passages (short stories) and write emails and extended responses to reading. You will apply information gathered from authentic French sources for information, entertainment, and personal enrichment, and analyze and explain cultural and linguistic perspectives unique to francophone culture. **The class is taught almost exclusively in French and**

**learners are expected to use French at all times in the classroom.**

## **FRENCH 4** **5140**

**Credit:** 1      **Level:** 11, 12

**PREREQUISITE:** French 3 (5130)

**APPROXIMATE FEES:** \$20 for Yabla, \$4 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** Students in French 4 engage in language activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native French speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will practice handling increasingly complicated situations or transactions in the francophone cultures by discussing and writing about current, past, future and hypothetical events, reacting to themes, characters and significant details in oral, written, and viewed materials, reporting on expressive products (literature, music, visual arts) and creating stories and skits based on personal experiences and exposure to themes and perspectives from the target culture. You will gather and apply information from authentic resources to research a variety of topics, monitor and discuss current events in the francophone world, and present information about the language and culture to others. Students in this course are eligible to participate in the exchange program with Annecy, France during travel years. **The class is taught almost exclusively in French and learners are expected to use French at all times in the classroom.**

## **LITERATURE OF FRANCOPHONE COUNTRIES** **5155**

**Credit:** ½      **Level:** 11,12

**PREREQUISITE:** French 4 (5140)

**APPROXIMATE FEES:** \$4 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** Students will read selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.). Each selected work is suggested by College Board for AP practice and preparation. They range from poems and plays to classic and modern French literature. By reading works selected by College Board as preparation for college readiness, students will increase their comprehension in French language which will help them in their college classes as well as their

placement tests upon entering college. Students in this course are eligible to participate in the exchange program with Annecy, France during travel years. **The majority of class is taught in French at a level appropriate pace. As the year progresses, students are increasingly responsible for using French in class.**

### **CINEMA OF FRANCOPHONE COUNTRIES** 5156

**Credit:** ½ **Level:** 11,12

**PREREQUISITE:** French 4 (5140)

**APPROXIMATE FEES:** \$6 National French Exam (optional, but recommended)

**COURSE DESCRIPTION:** Students will watch selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.). Each selected work is suggested by the College Board for AP practice and preparation. They range from documentaries to science fiction films. By watching works selected by the College Board as preparation for college readiness, students will increase their comprehension in French language which will help them in their college classes as well as their placement tests upon entering college. Students in this course are eligible to participate in the exchange program with Annecy, France during travel years. **The class is taught almost exclusively in French and learners are expected to use French at all times in the classroom.**

### **ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE** 5150

**Credit:** 1 (Weighted grade) **Level:** 12

**PREREQUISITE:** French 4 (5140)

**APPROXIMATE FEES:** \$20 for Yabla, \$95 for the AP French Examination (optional, but recommended) **\$4 National French Exam (optional, but recommended)**

**COURSE DESCRIPTION:** The A.P. French Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies and cultural awareness. You learn language structures in context and use them to convey meaning. The A.P. French Language and Culture course strives to promote both fluency and accuracy in language use. In order to best facilitate the study of language and culture, this course is taught in the target language. Students in this course are eligible to participate in

the exchange program with Annecy, France during travel years.

The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). **The class is taught exclusively in French and learners are expected to use French at all times in the classroom.**

### **GERMAN 1** 5210

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$6 National German Exam Fee (Optional, but recommended)

**COURSE DESCRIPTION:** German 1 is an introduction to the language and culture of German-speaking countries. Lessons in German 1 engage beginning language learners in activities that are embedded in real life contexts and make use of authentic materials produced by and for native German speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will learn to obtain, understand, exchange and present basic information. You will be able to ask and answer questions about various topics such as self, family, school activities, leisure activities, clothing choices and weather. You will connect with other content areas to obtain new and unique perspectives, make basic linguistic and cultural comparisons between your own language and German. **The majority of class is taught in German at a level appropriate pace.**

### **GERMAN 2** 5220

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

**PREREQUISITE:** German 1 (5210)

**APPROXIMATE FEES:** \$6 National German Exam Fee (Optional, but recommended)

**COURSE DESCRIPTION:** German 2 expands the students' knowledge from German 1. Students engage in using the language in activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native German speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice

in the skill areas of listening, speaking, reading, and writing. During this course you will learn to make suggestions, ask and answer more complex questions about a variety of topics, relate orally and in writing a series of present, future and past events, and express opinions and advice. You will apply information gathered from authentic German sources for information, entertainment, and personal enrichment, and analyze and explain cultural and linguistic perspectives unique to German culture. **The majority of class is taught in German at a level appropriate pace. As the year progresses, students are increasingly responsible for using German in class.**

Students, who have successfully completed this course, are eligible to participate in Cedarburg's German American Partnership Program.

### **GERMAN 3** **5230**

**Credit:** 1 **Level:** 10,11,12  
**PREREQUISITE:** German 2 (5220)  
**APPROXIMATE FEES:** \$20 workbook fee, \$6 National German Exam (Optional, but recommended)

**COURSE DESCRIPTION:** German 3 engages students in using the language in activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native German speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will learn to make suggestions, ask and answer increasingly complex questions about a variety of topics, relate orally and in writing a series of current, future, hypothetical events and past events, and express opinions and advice. You will read longer literary passages (short stories) and write emails, journals, and extended responses to reading. You will apply information gathered from authentic German sources for information, entertainment, and personal enrichment, and analyze and explain cultural and linguistic perspectives unique to the German speaking culture. **The class is taught almost exclusively in German and learners are expected to use German at all times in the classroom.**

Students, who have successfully completed this course, are eligible to participate in Cedarburg's German American Partnership Program.

### **GERMAN 4** **5240**

**Credit:** 1 **Level:** 11,12  
**PREREQUISITE:** German 3 (5230)  
**APPROXIMATE FEES:** \$25 for Yabla (online language immersion site) \$6 National German Exam (Optional, but recommended)

**COURSE DESCRIPTION:** Students in German 4 engage in language activities that are embedded in real life contexts and make frequent use of authentic materials produced by and for native German speakers. Activities begin to prepare students for the AP German exam and encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course you will practice handling increasingly complicated situations or transactions in the German culture by discussing and writing about current, past, future and hypothetical events, reacting to themes, characters and significant details in oral, written, and viewed materials. You will gather and apply information from authentic resources to research a variety of topics, monitor and discuss current events in the German speaking world, and present information about the language and culture to others. **The class is taught almost exclusively in German and learners are expected to use German all times in the classroom.**

Students, who have successfully completed this course, are eligible to participate in Cedarburg's German American Partnership Program.

### **ADVANCED PLACEMENT GERMAN 5260**

**Credit:** 1 **Level:** 12  
**PREREQUISITE:** German 4 (5240)  
**APPROXIMATE FEES:** \$25 for Yabla (online language immersion site); \$6 National German Exam (Optional, but recommended) \$95 for the AP German Examination (optional, but recommended)

**COURSE DESCRIPTION:** The A.P. German Language and Culture course strives to promote both fluency and accuracy in language use. It recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies and cultural awareness.

The AP German Language and Culture course engages students in deeper exploration of six themes of both contemporary and historical contexts: global challenges, science and technology, contemporary life, personal and public identities, families and communities and beauty and



aesthetics. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products).

The primary learning objectives of this course are spoken, written, interpretive and presentational communication. Special emphasis is placed on preparation for the AP German Language and Culture examination which is taken in May. **The class is taught exclusively in German and learners are expected to use German at all times in the classroom.**

### **SPANISH 1 5310**

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

**PREREQUISITE:** None

**APPROXIMATE FEES:** \$6 National Spanish Exam (optional, but recommended)

**COURSE DESCRIPTION:** Spanish 1 is an introduction to the language and culture of the Spanish-speaking world. Students will begin to obtain tools for developing proficiency in the four modes of communication: listening, speaking, reading, and writing. During this course students will be guided in the language to obtain an understanding of and opportunities to exchange basic information. Students will learn to ask and answer questions regarding the following: introducing and describing self, stating feelings, describing likes and dislikes, stating and describing classes and school environment, describing weather, numbers, telling time, stating the date, describing family, and stating favorite sports and other leisure activities. Basic grammatical structures and cultural pieces are integrated into each unit. **The majority of class is taught in the target language at a level appropriate pace.**

### **SPANISH 2 5320**

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

**PREREQUISITE:** Successful completion of Spanish 1 (5310) and/or teacher recommendation

**APPROXIMATE FEES:** \$6 National Spanish Exam (optional, but recommended)

**COURSE DESCRIPTION:** Spanish 2 is a continuation of the proficiency-based approach begun in Spanish 1. Students will continue to develop proficiency in the four modes of

communication: listening, speaking, reading, and writing. During this course, students will learn to ask and answer increasingly complex questions about a variety of topics, such as travel, daily routine, clothing, food, and more.

Expanded vocabulary and grammar concepts are introduced to further develop students' ability to communicate in the past, present, and future. The majority of class is conducted in Spanish at a level appropriate pace. As the year progresses, students are increasingly responsible for using the target language in class.

### **SPANISH 3 5330**

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

**PREREQUISITE:** Successful completion of Spanish 2 (5320) and/or teacher recommendation

**APPROXIMATE FEES:** \$6 National Spanish Exam (optional, but recommended)

**COURSE DESCRIPTION:** Spanish 3 is a course of increased intensity, rigor and expectations that is designed to push learners in the production of Spanish in all four modes of communication. The concepts students gained in Spanish 1 and 2 are essential building blocks as the course presents new and challenging grammatical concepts, cultural comparisons, and deeper thinking to acquire more advanced communication and responses. During this course, students will learn to communicate on a wide variety of topics such as, including health, house and chores, technology, transportation, and more. Students in this level are expected to challenge themselves and bring forth intrinsic motivation in order to be successful in the course. **The class is conducted almost exclusively in Spanish and learners are expected to use Spanish at all times in the classroom.**

Students, who have **successfully** completed this course and receive a teacher recommendation, may be eligible to participate in travel to a Spanish-speaking country.

### **SPANISH 4 5340**

**Credit:** 1                      **Level:** 11,12

**PREREQUISITE:** Successful completion of Spanish 3 (5330) and/or teacher recommendation

**APPROXIMATE FEES:** \$20.00 Yabla (online language immersion site) \$6 National Spanish Exam (optional, but recommended)

**COURSE DESCRIPTION:** Students in Spanish 4 engage in language activities that are embedded in real life contexts and make frequent use of authentic

materials produced by and for native Spanish speakers. Activities encompass all three communicative modes (interpersonal, interpretive, and presentational) and provide practice in the skill areas of listening, speaking, reading, and writing. During this course students will practice handling increasingly complicated situations or transactions in the hispanophone cultures by discussing and writing about current, past, future and hypothetical events, reacting to themes, characters and significant details in oral, written, and viewed materials, reporting on expressive products (literature, music, visual arts) and creating stories and skits based on personal experiences and exposure to themes and perspectives from the target culture. Students will gather and apply information from authentic resources to research a variety of topics, monitor and discuss current events in the hispanophone world, and present information about the language and culture to others. **The class is taught almost exclusively in Spanish and learners are expected to use Spanish at all times in the classroom.**

Students, who have **successfully** completed this course and receive a teacher recommendation, may be eligible to participate in travel to a Spanish-speaking country.

### **ADVANCED PLACEMENT SPANISH 5350**

**Credit:** 1 (Weighted grade)      **Level:** 12

**PREREQUISITE:** Spanish 4 (5340)

**APPROXIMATE FEES:** \$45 for workbook and \$20.00 for *Yabla* (online language immersion site); \$95 for the AP Spanish Examination (optional, but recommended) **\$6 National Spanish Exam (optional, but recommended)**

**COURSE DESCRIPTION:** AP Spanish is a college-level course designed for highly motivated students that are interested in refining speaking, listening, reading and writing skills in the target language. The course includes a review of previously acquired grammatical concepts. Students will be exposed to a wide variety of authentic print and auditory sources to which they will respond and/or react by speaking or in writing. Special emphasis is placed on 6 thematic units including: global challenges, science and technology, contemporary life, personal and public identities, families and communities and beauty and aesthetics, that will prepare students to take the AP Spanish Language and Culture Examination. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). **The class is taught exclusively in Spanish and learners are expected to use Spanish at all times in the classroom.**

Students, who have **successfully** completed this course and receive a teacher recommendation, may be eligible to participate in travel to a Spanish-speaking country. Outgoing seniors will not be eligible to travel as the trip will occur during summer.