WAUNAKEE COMMUNITY HIGH SCHOOL

# Waunakee Community High School

ACADEMIC & CAREER PLANNING GUIDE

2026-2027

COMMITTED TO CHILDREN ● COMMITTED TO COMMUNITY ● COMMITTED TO EXCELLENCE

WAUNAKEE COMMUNITY SCHOOL DISTRICT

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# WCSD Mission, Vision, and Equity Statements

**MISSION STATEMENT**

"Committed to Children...Committed to Community...Committed to Excellence"

**VISION STATEMENT**

The Waunakee Community School District is a collaborative learning community that works with students, staff, families, and the community to ensure that every student is ready for college and career; through a focus on data, research based best practices, and engagement with students to be active partners in their learning.

**EQUITY STATEMENT**

The Waunakee Community School District embraces the differences among our students, staff, and families. We work to provide a safe environment with access to resources, opportunities, and instruction for all students to reach their full potential in the classroom and beyond. We strive to create a culture of dialogue, acceptance, and inclusion. We are committed to engaging all students so that they may thrive academically, socially, and emotionally in an ever-changing multicultural society.

**WAUNAKEE COMMUNITY SCHOOL DISTRICT NON-DISCRIMINATION STATEMENT**

Waunakee Community School District does not and shall not discriminate on the basis of race, religion (creed), gender, gender expression, sexual orientation, age, national origin (ancestry), disability, marital status, or military status, or any other factor prohibited by state or federal law, or according to District policy, in any of its activities or operations. These activities include, but are not limited to, employment of staff, selection of volunteers and vendors, and provision of services.

Waunakee Community School District is an equal opportunity employer. We will not discriminate and will take measures to ensure against discrimination in recruitment, employment, compensation, discipline and other conditions of employment against any employee or job applicant. We are committed to providing an inclusive and welcoming environment for all members of our staff, volunteers, subcontractors, vendors, students and families.

# From the Principal's Office

Dear Student and Parents:

**The Career Planning and Course Guide:**
This guide provides information that will help students choose classes for next school year. Selecting the appropriate classes for each student is important as it may impact a student's grade point average, eligibility to enroll in higher level courses, college admissions qualifications, athletic eligibility, and career preparedness.

My hope is that this guide provides you with helpful information that will assist in the planning process.

**What Students and Parents Need to Discuss:**

- What are the student's interests?
- What skills does the student possess that may develop into a career path?
- What challenges does the student possess that may impact future goals?
- What standard of living, lifestyle, and work environment is most appealing for the student?
- Will the student attend a university, technical college, an apprenticeship program, the military, or prepare for a career directly upon graduation?
- What financial considerations need to be a part of post-high school decisions?

Regardless of the student's post-high school goal, it is recommended that a student challenge themselves through appropriately rigorous coursework while maintaining a high level of academic achievement. Keeping options open as future plans change is best obtained through a high level of student preparedness.

Thank you for your active involvement in the registration process. I look forward to a great school year for every WCHS student!

Mr. Brian Borowski
WCHS Principal

# Student Services & Administration

## HIGH SCHOOL STUDENT SERVICES STAFF

| | | |
|---|---|---|
| School Counselor \| Melissa Bacher | melissabacher@waunakee.k12.wi.us | ext. 2325 |
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| Social Worker \| Rose Nadler | rosenadler@waunakee.k12.wi.us | ext. 2056 |
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| School Psych \| Megan Galdes | megangaldes@waunakee.k12.wi.us | ext. 2057 |
| School Psych \| Marion Moffett | marionmoffett@waunakee.k12.wi.us | ext. 2061 |

## SCHOOL TO CAREER STAFF

| | | |
|---|---|---|
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| STC Admin Assistant \| Kathleen Syens | kathleensyens@waunakee.k12.wi.us | ext. 2115 |

## HIGH SCHOOL ADMINISTRATIVE STAFF

| | | |
|---|---|---|
| Principal \| Brian Borowski | brianborowski@waunakee.k12.wi.us | ext. 2050 |
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| Associate Principal \| Steve Hernandez | stevenhernandez@waunakee.k12.wi.us | ext. 2059 |
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| AD Admin Assistant \| Sue Patz | susanpatz@waunakee.k12.wi.us | ext. 2043 |
| Attendance \| Christina Raemisch | christinaraemisch@waunakee.k12.wi.us | ext. 2041 |
| School Nurse \| Jennifer Sydow | jennifersydow@waunakee.k12.wi.us | ext. 2055 |
| Health Assistant \| Nola Luhtala | nolaluhtala@waunakee.k12.wi.us | ext. 2055 |
| Pathways Coordinator \| Janell Dorn | janelldorn@waunakee.k12.wi.us | ext. 2058 |

# Using this Planning Guide - Navigation

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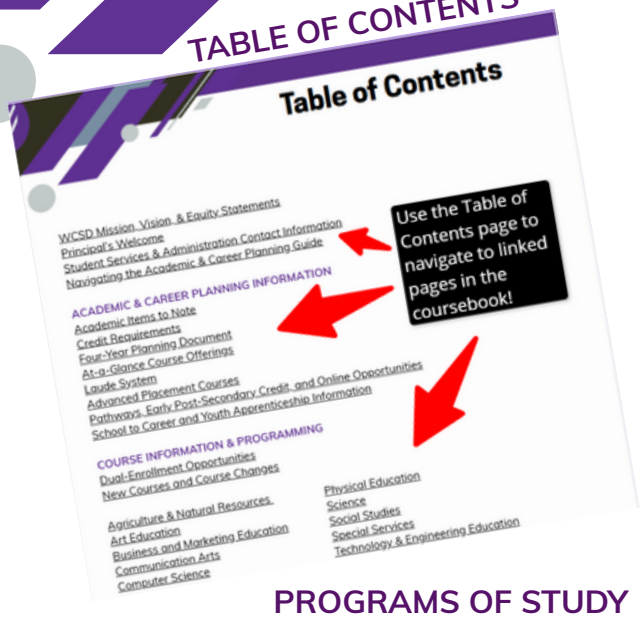


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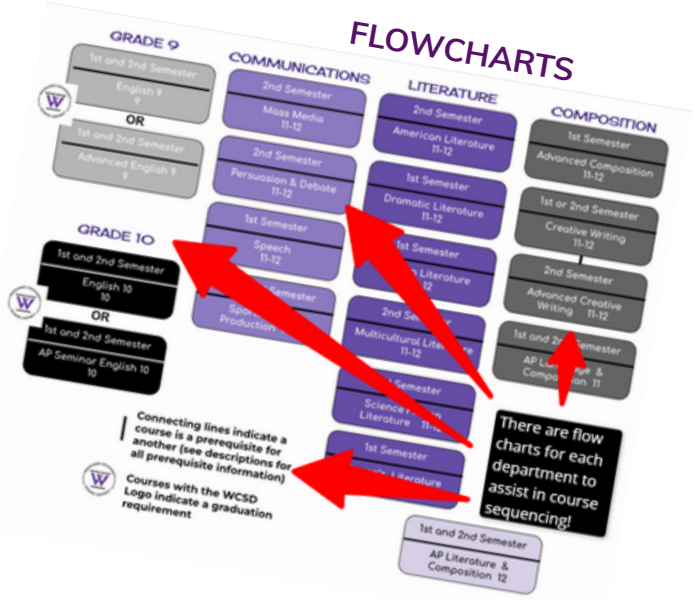
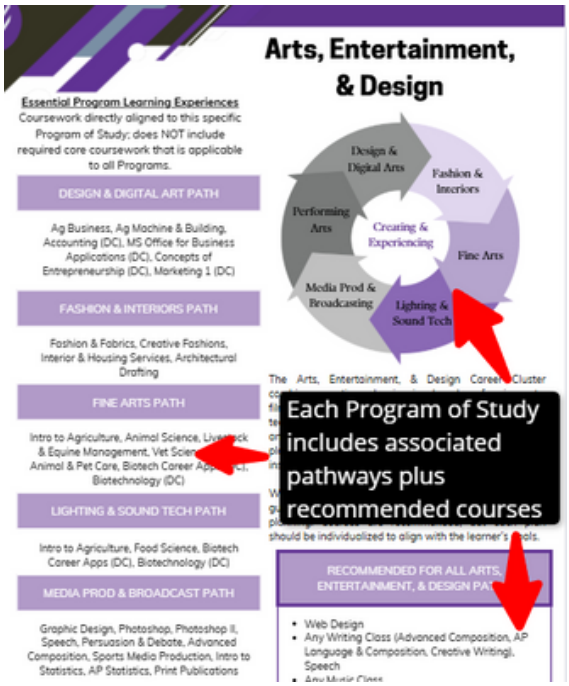
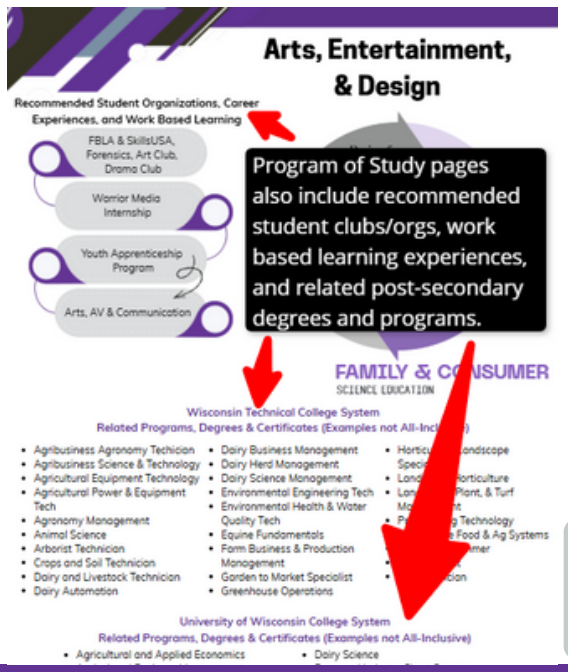
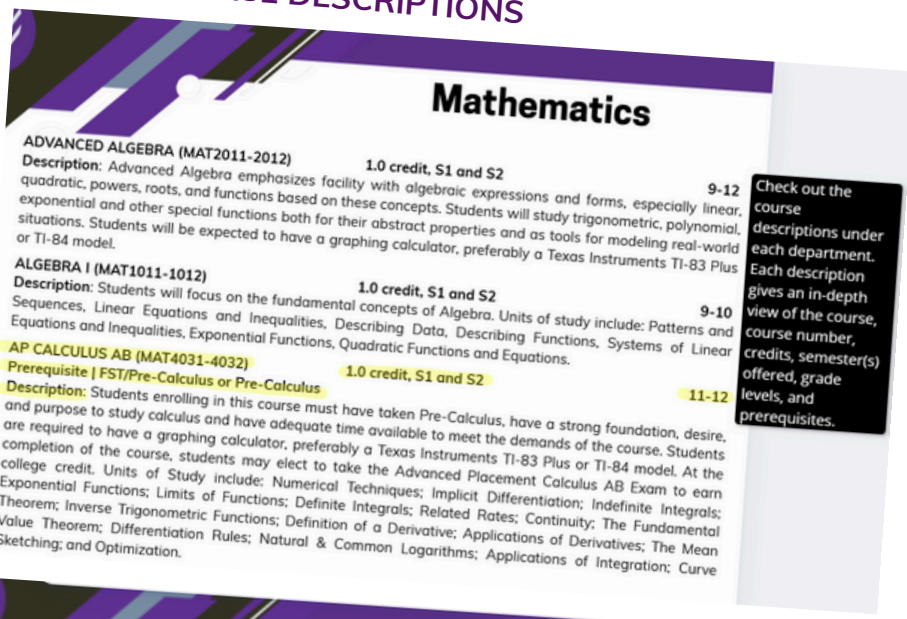


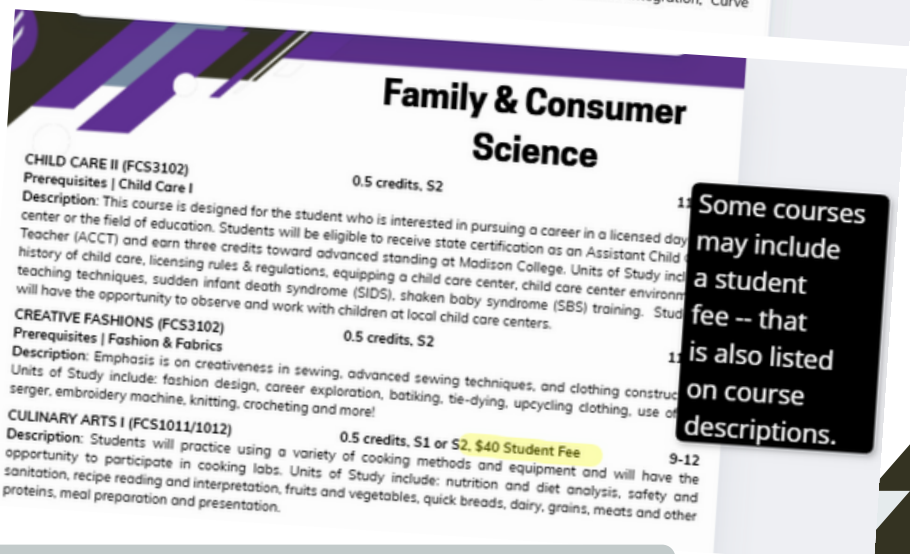

## PROGRAMS OF STUDY




## COURSE DESCRIPTIONS




**NOTE:** Text that is underlined throughout this guide indicates an active hyperlink to provide additional information or resources.

# Using this Planning Guide - Acronyms & Definitions

**CAREER CLUSTER:** One of 16 nationally recognized groups of jobs and industries that are related by similar skills and knowledge.

**CAREER PATHWAY:** A career pathway is a series of educational and training steps that lead to a specific job or field. It provides a clear roadmap for career growth, outlining the sequence of roles, experiences, and credentials needed for advancement within an industry.

**COOPERATIVE ACADEMIC PARTNERSHIP PROGRAM (CAPP)**: a convenient and affordable way for high school students to earn concurrent high school and college credit, while developing key skills for future success. Note: Qualified juniors and seniors may earn college credit through CAPP. All dual credit options are dependent upon appropriate teacher certification and may change with changes in staffing. 11-13 additional credits may be earned retroactively upon enrollment in the UW system if a grade of A or B is earned both semesters. Additional four-year universities may offer retroactive credit, please check with the individual university.

**DUAL CREDIT (DC):** Dual credit allows high school students to take a college-level course at their high school, taught by a certified high school instructor and receive technical college credit if all Dual-Credit requirements are met. These may include earning a specific grade or enrolling at a specific grade level. The course curriculum matches the Madison College course taught on campus.

**EQUIVALENCY MATH (EM)**: WCHS courses designated as an equivalency math credit (max 1.0 EM credits allowed).

**EQUIVALENCY SCIENCE (ES):** WCHS courses designated as an equivalency science credit (max 1.0 ES credits allowed).

**INDUSTRY RECOGNIZED CREDENTIALS (IRC):** An industry-recognized credential is a certification, license, or other form of verification that confirms a person has the skills, knowledge, and abilities needed to perform a specific job or role according to industry standards. These credentials are valued by employers because they demonstrate that an individual is prepared for the workplace and meets established professional requirements within a particular field.

**LAUDE (L1, L2, L**):** WCHS courses designated as rigorous academic classes.

**NCAA APPROVED (N):** WCHS core courses approved for prospective student-athletes seeking NCAA initial-eligibility.

**PROJECT LEAD THE WAY (P):** Project Lead the Way (PLTW) is the nation's leading provider of K-12 STEM programs which are designed to help students develop the skills necessary to succeed in the global economy.

**PROGRAM OF STUDY:** A coordinated sequence of academic and career related opportunities within our high school that incorporates state academic standards, technical skills, employability skills, and aligns with labor market data in our state.

**WORK BASED LEARNING (WBL):** School-supervised work-based learning reinforces the connection between work and school, provides an opportunity for meaningful contact with adults/mentors, improves their chances for successful employment as young adults, and helps solidify career interests.

# Academic Items to Note

**MINIMUM CREDIT LOAD**

All WCHS Students are required to register for 3.0 credits* per semester unless otherwise defined by administration, IEP, or 504 Plan. *Teacher Assistant (TA) does NOT count toward a student's required 3.0 credit load per semester.

**SCHEDULE CHANGES**

Students will only be granted a schedule change request if one or more of the following criteria are met, and require the approval of parent and building principal:

- Graduation requirement (Grade 12 only)
- College admission requirement (Grades 11-12 only)
- Failure/Class repeat (Grades 10-12 only)
- Work based learning programs (Grades 11-12 only)
- Enrollment in an incorrect course "level"
- Documented medical circumstances

**DROPPING A CLASS**

A student may drop a course, without penalty, within the first seven (7) class periods of the semester, as long as it does not put the student below a full-time schedule of 3.0 credits*. Any course dropped after the seventh (7th) class period will be included on the student transcript with a W (withdrawal with a passing grade) or a WF (withdrawal with a failing grade). The specific notation will be at the discretion of the teacher and high school administration. Students are encouraged to carefully consider their course options prior to registration. For seniors: schedule change requests for academic courses must obtain prior approval from any colleges that have a submitted application. *Teacher Assistant (TA) does NOT count toward a student's required 3.0 credit load per semester.

**REPEATING A CLASS**

Classes may be retaken for credit with the approval of the high school principal when the grade for the class the first time it was taken was a failure. All classes taken will appear on the student's transcript and be utilized in computing the student's grade point average. The high school principal should use discretion in determining whether a student may retake a class. Classes are not to be retaken simply to improve the grade point average or class standing. In certain situations, a student may talk to their counselor about the option of retaking a class as a "no mark audit" (enrollment in a course for no grade and no credit).

**COURSES COMPLETED OUTSIDE OF WAUNAKEE COMMUNITY HIGH SCHOOL**

All coursework taken outside of WCHS must be approved in advance of starting the class, please see your school counselor, School to Career Coordinator, or Pathways Coordinator (Pathway students) for appropriate paperwork.

**EARLY GRADUATION** (Waunakee BOE Policy 345.6, Item A)

The Board of Education acknowledges that some students are pursuing educational goals which include graduation from high school at an earlier date than their designated class. An application for early graduation must be submitted to the high school principal in accordance with school regulations. The principal may honor this request if all conditions for graduation are met and the student fulfills the graduation requirements. If a decision is made to deny the early graduation request, the student or parent/guardian may appeal the decision to the superintendent, whose decision shall be final. The student may participate in the graduation ceremonies with his/her designated class.

**JUNIOR/SENIOR RESPONSIBILITY RELEASE PROGRAM** (Waunakee Student Handbook, page 18)

Students in good standing may substitute a release period for a study hall. Criteria for release are based on a review of academic grades, attendance, and behavior data.

# WCHS Credit Requirements

| | WCHS Graduation Requirements | University of Wisconsin System Admission Requirements | NCAA Division I and II Eligibility Requirements |
|---|---|---|---|
| **English** | **4 Credits** including<br>✓ English 9 **or** Adv. English 9<br>✓ English 10 **or** Adv. English 10 **or** AP Seminar Eng 10 | **4 Credits** including<br>✓ Literature and Composition course during junior or senior year<br>*(Digital Communications/Sports Media Production may not count as an English credit)* | **4 Credits**<br>✓ Digital Communications (Sports Media Production) is NOT an approved NCAA course |
| **Math** | **3 Credits** | **3-4* Credits** including<br>✓ Algebra<br>✓ Geometry<br>✓ Advanced Algebra | **3 Credits** |
| **Science** | **3 Credits** including<br>✓ Biology<br>✓ At least one Physical Science course | **3-4 Credits** | **3 Credits** including<br>✓ **2 credits** of natural/physical science<br>✓ **1 credit** of lab science |
| **Social Studies** | **3 Credits** including<br>✓ World History<br>✓ US History or AP US History<br>✓ Law | **3-4 Credits** | **2 credits** |
| **Physical Education** | **1.5 Credits** including<br>✓ Intro to PE | | *Four additional credits/years of English, math, natural/physical science, social science, or world language<br><br>16 Core Courses<br>10 of 16 must be completed prior to the start of senior year |
| **Health** | **.25 Credit** | | |
| **Careers** | **.25 Credit** | | |
| **Personal Finance** | **.50 Credit**<br>*Starting with Class of 2028 | | |
| **Electives** | Student choice credits outside of requirements | **World Language**<br>✓ 2 years encouraged for 4-year campuses<br>✓ 2 years of single world language required but 3-4 years are typical for admission (UW-Madison only) | |
| **Total Credits** | **24 Credits** | Students are responsible for verifying specific requirements for each university | Students are responsible for verifying their courses meet NCAA Eligibility Requirements |
| **Other** | **Successful completion of the WI Civics Exam** | | |

# WCHS 4-Year Planning

| **Grade 9** Requirements | **Semester 1** | **Semester 2** |
|---|---|---|
| **ENGLISH**<br>*English 9 or Adv English 9*<br>**MATH**<br>**PHYSICAL EDUCATION**<br>*Intro to PE*<br>**SCIENCE**<br>*Biology*<br>**SOCIAL STUDIES**<br>*World History* | | |
| ALTERNATE COURSE | | |
| ALTERNATE COURSE | | |

*Starting with the Class of 2028, Personal Finance is now a Graduation Requirement and students should plan on taking the course (formerly known as Dollars & Sense) during Grade 9 or Grade 10*

| **Grade 10** Requirements | **Semester 1** | **Semester 2** |
|---|---|---|
| **CAREER WORKSHOP**<br>**HEALTH**<br>**ENGLISH**<br>*English 10 or AP Seminar Eng 10*<br>**MATH**<br>**PHYSICAL EDUCATION**<br>**SCIENCE**<br>**SOCIAL STUDIES**<br>*US History or AP US History* | | |
| ALTERNATE COURSE | | |
| ALTERNATE COURSE | | |

# WCHS 4-Year Planning

| **Grade 11** Requirements | **Semester 1** | **Semester 2** |
|---|---|---|
| **ENGLISH**<br>**MATH**<br>**PHYSICAL EDUCATION**<br>**SCIENCE**<br>**SOCIAL STUDIES** | | |
| ALTERNATE COURSE | | |
| ALTERNATE COURSE | | |

*Starting with the Class of 2028, Personal Finance is now a Graduation Requirement and students should plan on taking the course (formerly known as Dollars & Sense) during Grade 9 or Grade 10*

| **Grade 12** Requirements | **Semester 1** | **Semester 2** |
|---|---|---|
| **ENGLISH**<br>**SOCIAL STUDIES**<br>*Law*<br><br>The following are recommended, and required if graduation requirements were not met in previous years<br>**MATH**<br>**PHYSICAL EDUCATION**<br>**SCIENCE** | | |
| ALTERNATE COURSE | | |
| ALTERNATE COURSE | | |

# Laude Information

The purpose of the Laude System is to recognize students for the rigor of their academic program as well as their success in that program. This award system was initiated with the Class of 2011. It is implemented in addition to the gold honor cords that are awarded for GPAs of 3.6 or higher.

Laude points are based on course credits and course rigor.

Laude scores will be posted for seniors to review each spring. Once posted, seniors will have one week from the day the scores are posted to contest their score with the High School Principal. **Please note that no adjustments to laude scores will be considered after that deadline.**

Included on the following pages is the WCSD policy and procedure for calculating Laude points for our seniors prior to graduation, a table of current WCHS courses that earn Laude points, and the policy and procedure for using the Laude system for reporting students for the Wisconsin Guarantee. In addition to the WCHS courses listed, students and families should be aware of other high school opportunities that are assigned Laude points. These are included in the following table.

| | |
|---|---|
| **Early College Credit Program Courses** | Approved courses through this program will earn HS and College Credit if successfully completed, Laude points are based on the number of college credits earned (e.g. 1-2 college credits = 1 Laude point, 3-5 college credits = 2 Laude points) |
| **Online Advanced Placement Courses** | Students may have the opportunity to enroll in an online Advanced Placement Course, and those courses will earn Laude points (e.g. semester course = 1 Laude point, year-long course = 2 Laude points) |
| **Start College Now Courses** | Approved courses through this program will earn HS and College Credit if successfully completed, Laude points are based on the number of college credits earned (e.g. 1-2 college credits = 1 Laude point, 3-5 college credits = 2 Laude points) |
| **Youth Apprenticeship Program** | All Youth Apprenticeship Programs will earn 1 Laude point per semester that a student is actively participating (up to 4 semesters). Starting with the Class of 2025. |
| **Other: Transfer Credits, Study Abroad Courses, and "Offsite" Youth Apprenticeship Related Coursework** | These are unique situations and courses will be considered on an individual basis based on the rigor of the courses. **Course requests for consideration of Laude credit must be submitted by March 1 to the High School Principal.** |

# Laude Information

The WCSD policy and procedure for calculating Laude points for our seniors prior to graduation is outlined in the following table.

| | |
|---|---|
| **Award Levels** | There are three levels of awards:<br>● Summa Cum Laude (purple cord)<br>● Magna Cum Laude (silver cord)<br>● Cum Laude (white cord) |
| **Minimum GPA** | To be considered for a Laude award, a student must have a cumulative GPA after first semester senior year of 3.0 or higher. This is approximately the top half of the class. |
| **Laude Score** | A student's Laude score will be determined by multiplying:<br>1. The student's cumulative GPA after **first** semester Senior year by<br>2. The number of "advanced" semester courses completed in **all four years** as listed on the Advanced Courses chart, including 2nd semester senior year courses |
| **Score Breaks** | There will be no rounding of Laude scores<br>● 56+ Summa Cum Laude<br>● 40 – 55.999 Magna Cum Laude<br>● 24 – 39.999 Cum Laude<br>There may be some students who will need to be considered on a case-by-case basis, such as students who take a semester or year abroad or who graduate early. |
| **Examples** | **Minimum combination for Summa Cum Laude**<br>● 4.0 GPA and 14 semesters of advanced coursework<br>● 3.5 GPA and 16 semesters of advanced coursework<br>● 3.0 GPA and 19 semesters of advanced coursework<br>**Minimum combination for Magna Cum Laude**<br>● 4.0 GPA and 10 semesters of advanced coursework<br>● 3.5 GPA and 12 semesters of advanced coursework<br>● 3.0 PGA and 14 semesters of advanced coursework<br>**Minimum combination for Cum Laude**<br>● 4.0 GPA and 6 semesters of advanced coursework<br>● 3.5 GPA and 7 semesters of advanced coursework<br>● 3.0 GPA and 8 semesters of advanced coursework |
| **Sample Calculation** | GPA = 3.685<br>Courses: AP Psychology (2), Pre-Calculus (2), AP US History (2), AP Calculus AB (2), AP Lit & Comp (2), Biotechnology (1), Adv. Art Workshop (1) = 12 Laude points<br>Calculation: 3.685 x 12 = 44.22 earns Magna Cum Laude |

# Laude Courses

| Department | Sem/Points | Course Title |
|---|---|---|
| **Art Education** | 1 | Advanced Art Workshop |
| **Business & Information Technology and Marketing Education** | 2<br>2<br>1<br>1 | Advanced Accounting<br>Marketing 2 (through 2025-26)<br>Social Media Marketing (DC) (starting in 2026-27)<br>Selling Principles (DC) (starting in 2026-27) |
| **Communication Arts** | 1<br>2<br>2<br>2<br>2 | Advanced Creative Writing<br>Advanced English 9 (starting with Class of 2030)<br>AP English Language & Composition<br>AP English Literature & Composition<br>AP Seminar English 10 (starting with Class of 2029) |
| **Computer Science** | 2<br>2 | AP Computer Science A (EM)<br>AP Computer Science Principles: Cybersecurity |
| **Math** | 2<br>2<br>2<br>2<br>2 | AP Calculus AB<br>AP Calculus BC<br>AP Statistics<br>FST/Pre-Calculus<br>Pre-Calculus |
| **Music** | 2<br>2<br>2 | 4th year of band + A solo/duet<br>4th year of choir + A solo/duet<br>4th year of orchestra + A solo/duet |
| **Science** | 2<br>2<br>1<br>1<br>1 | AP Biology<br>AP Chemistry<br>Biotechnology (DC)<br>Physics II, semester 1<br>Physics II, semester 2<br>See Also: Principles of Engineering (ES) under TEE |
| **Social Studies** | 1<br>2<br>2<br>2<br>2 | AP Macroeconomics<br>AP European History<br>AP Psychology<br>AP US Government and Politics<br>AP US History |
| **Technology and Engineering Education** | 2<br>2 | Engineering Design and Development<br>Principles of Engineering (ES) |
| **World Language** | 2<br>2<br>2<br>2<br>2 | French V<br>Mandarin Chinese IV (through 2026-2027)<br>Mandarin Chinese V<br>Spanish V<br>Spanish VI |

# Laude Information for Wisconsin Guarantee

## THE WISCONSIN GUARANTEE

The Wisconsin Guarantee provides automatic admission opportunities for Wisconsin high school students based on class rank at the end of junior year.`

- **Top 5% of class**: Guaranteed admission to **UW–Madison**
- **Top 10% of class**: Guaranteed admission to **all other Universities of Wisconsin**

### HOW WAUNAKEE DETERMINES CLASS RANK

The **WCHS Laude System** is used to identify students in the top 5% and top 10% using:

- **Cumulative GPA** through the end of junior year
- **Laude points** earned through advanced coursework completed by the end of junior year

Students and their families are notified if they have earned either designation in late June. Top 5% and top 10% endorsements are noted on transcripts.

### IMPORTANT INFORMATION

- Students must still **apply for admission** to the universities they wish to attend.
- All applicants must meet each campus's **standard course requirements**.
- Universities conduct a **holistic review** to evaluate applicants for direct-entry programs and scholarships.
- To use The Wisconsin Guarantee for **UW–Madison**, students must submit their application by the **Early Action deadline**. Please click this link for more detailed UW-Madison information.
- **National Merit Scholarship Program finalists** also receive guaranteed admission to UW–Madison.
- The Wisconsin Guarantee ensures admission to the **university**, not to specific majors or programs.
- For campus-specific questions, contact the **Undergraduate Admission Office** at the UW campus of interest.

### EXAMPLE: WISCONSIN GUARANTEE LAUDE CALCULATION

To qualify for a Laude award, a student must hold a **minimum 3.0 cumulative GPA** through junior year.

**Laude Score**: Calculated by multiplying the student's cumulative GPA by the number of semesters of advanced courses completed through junior year (see WCHS Laude Courses page).
**Sample Calculation**: GPA: **4.032**

- Completed semesters of advanced courses (13 total):
  - AP U.S. History (2)
  - AP Psychology (2)
  - AP Macroeconomics (1)
  - AP English Language & Composition (2)
  - AP Biology (2)
  - Pre-Calculus (2)
  - Youth Apprenticeship (2)

**Laude Score: 4.032 × 13 = 52.416 points**

# Advanced Placement Courses

## WHAT IS ADVANCED PLACEMENT?

Advanced Placement (AP) Courses allow students to enroll in rigorous, college-level courses while in high school. The potential for college credit is determined based on the AP exam score (generally a score of 3 or higher earns college credit). Students who do not opt out of an AP Exam are required to pay the exam fee ($104 for 2025-26, subject to change).

AP exams take place once each year over the course of two weeks in May. The college credit that is awarded is specific to each institute of higher education and detailed information for how the UW-System awards AP credit may be found here: UW Additional Credit Opportunities

For private colleges/universities in Wisconsin as well as out of state schools, it is best to research the individual schools as the credits granted are specific to each respective college/university or by using the following AP Credit Policy Search.

More information on the AP Program may be found here: AP College Board Website.
As an added resource, each AP Course offered at the high school will include a direct link to the AP College Board website for more information about the specific course and exam on the course description pages.

| Course | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|
| AP Biology | | | X | X |
| AP Calculus AB | | | X | X |
| AP Calculus BC | | | X | X |
| AP Chemistry | | | X | X |
| AP Computer Science A - EM | | | X | X |
| AP Computer Science Principles: Cybersecurity | | X | X | X |
| AP Macroeconomics | | | X | X |
| AP European History | | | X | X |
| AP Language & Composition | | | X | |
| AP Literature & Composition | | | | X |
| AP Psychology | | | X | X |
| AP Seminar English 10 | | X | | |
| AP Statistics | | | X | X |
| AP US Government and Politics | | | X | X |
| AP US History | | X | X | X |

# Pathways, Early Post-Secondary, and Online Opportunities

## WCHS PATHWAYS PROGRAM

The Pathways Department provides support for advanced learners in the Waunakee Community School District. Early entrance into a course, doubling up of courses, compacting of course material, independent study and/or taking advanced courses online is possible through demonstrated proficiency, academic ability, and/or high interest levels. For more information, contact the Pathways Coordinator, Janell Dorn, at 608-849-2100.

## EARLY POST-SECONDARY OPPORTUNITIES

The Early College Credit (ECCP) and Start College Now (SCN) programs allow public high school students who meet certain requirements to take post-secondary courses at a Wisconsin technical college, a UW System college or university, a Wisconsin tribally controlled college, or a Wisconsin private, nonprofit college or university.

Through the Early College Credit Program (BOE Policy 343.46) and/or the Start College Now Program (BOE Policy 343.45), the Waunakee Board of Education will determine if a desired college course can be taken for high school credit and is not comparable to a current course offered by the district. In such cases, and unless the student fails to complete or get a passing grade in the course, the district will pay the cost of tuition and fees (up to 18 postsecondary credits) and the student will receive both high school and college credit. This high school credit will then count toward the student meeting high school graduation requirements needed to earn a high school diploma. Grades from the college will be shared with the high school and will be reported on the student's transcript and will impact their GPA. For both ECCP and SCN Programs, applications for Fall courses are due by March 1 and for Spring courses by October 1. For ECCP Summer applications, those are due no later than February 1. To obtain more information about this program, contact the WCHS School to Career Coordinator, Mrs. McGlynn, at 608-849-2137.

## ONLINE COURSES

Through partnership with the Wisconsin eLearning Network, Waunakee High School is able to offer students options for online courses if they meet specific criteria. Online courses in nearly every curricular area are available at no cost to the student learner. Students are required to meet with their high school counselor, Pathways Coordinator, or School to Career Coordinator to determine eligibility for this option. Students must demonstrate general and technical readiness, meet technological requirements, meet all course prerequisites, demonstrate the ability to work independently, and meet one of the following contexts:

1. Course is not offered at Waunakee High School
2. Scheduling conflict due to singleton sections in the student's individualized learning plan
3. Necessary for a student's four-year plan
4. Travel abroad or for national athletic teams
5. Health related concerns
6. Former home school student
7. Mid-year transfer from another school
8. Supports student placement in a Youth Apprenticeship Program

If a student's placement in an online course is approved, learning contracts are required for the student and parent. Students who are enrolled in an online course may be required to include a study hall in their schedule in order to ensure time is available for the student to successfully meet all online course requirements and remain on pace with online assignments and exams. All approved online coursework is coordinated and graded by a contracted online instructor outside of the Waunakee School District. Online course grades are entered into the Infinite Campus portal every grading period, similar to all other traditional courses, and will appear on a student's transcript. For questions regarding online courses at Waunakee High School, parents and/or students should contact their student's school counselor, Pathways Coordinator, or the School to Career Coordinator.

# School to Career Opportunities

For all School to Career courses and programs, whenever possible, a job should be secured before school starts. While teachers and program coordinators may become aware of available positions, finding a job is ultimately the responsibility of the student/parent/guardian. Students have four weeks into each semester to secure a position, or they will be ineligible to earn credit and any release time. All credits earned through these programs are elective.

**EMPLOYABILITY SKILLS (STC3101/3102) 0.5 or 1.0 credit, S1 and/or S2 11-12**

**Description**: Students must apply for this experience. It is beneficial for students to be enrolled in a related course (Ag, Business, FACS, Tech. Engineering, or Marketing). Juniors and Seniors with a 2.7 GPA enrolled in Employability Skills may be eligible for a school-approved work release each semester. The Employability Skills program allows Juniors and Seniors to gain valuable work experience while they are still in school. Upon successful completion, this work experience will recognize the student's mastery of employability skills valued by employers and will provide a state-certified certificate to validate accomplished employability skills. Students must complete: 90 hours of on-the-job experience, all meeting and journaling requirements, and the Wisconsin DPI Skills Portfolio in order to earn 0.5/1.0 credit per semester. Credits are based on hours worked each semester. Students may repeat this experience for up to two years.

**INTERNSHIP PROGRAM (STC3141/3142) 0.5 or 1.0 credit, S1 and/or S2 11-12**
**CAREER PATHWAY: EDUCATION/FUTURE TEACHER (WCSD)**

**Description**: Students must apply for this experience. In order to provide an opportunity for our students who are interested in Education as a future career pathway (not including Early Childhood Education), students may apply to this unpaid internship program. The program includes a partnership with a Waunakee (or other local) licensed educator who is willing to mentor a High School student, in 11 and 12 grade, in an Education Pathway. The partnership would focus on grades K-6. A skills checklist will be established and used to evaluate the HS student at the end of the program, with periodic in-person evaluations to be completed by the School to Career Coordinator. Students will be allowed to schedule internship releases into their schedule the same as other work based learning students, and would be responsible for their own transportation to the approved internship site. An hour requirement would be 90 logged hours per semester to earn 0.5 credit or 180 logged hours to earn 1.0 credit. Students may repeat this experience for up to two years.

**INTERNSHIP PROGRAM (STC3151/3152) 0.5 credit, S1 and/or S2 9-12**
**CAREER PATHWAY: ARTS/AV/BROADCAST JOURNALISM (WARRIOR MEDIA)**

**Description**: Students must apply for this experience. In order to provide an opportunity for our students who are interested in Warrior Media, this unpaid internship is available for grades 9-12. An hour requirement would be 90 logged hours per semester to earn 0.5 credit. There are no work releases approved for this internship. Students may repeat this experience.

**INTERNSHIP PROGRAM (STC3161/3162) 0.5 credit, S1 and/or S2 11-12**
**CAREER PATHWAY: MARKETING OR BUSINESS (WAUNAKEE NEIGHBORHOOD CONNECTION)**

**Description**: Students must apply for this experience. In order to provide an opportunity for our students who are interested in a volunteer experience with a local non-profit, WNC has partnered with WCHS to offer three (3) different intern programs: Marketing Outreach, Administrative Professional, and Welcome Desk. Each program requires specific skills and will include periodic in-person evaluations to be completed by the School to Career Coordinator. Students will be allowed to schedule internship releases into their schedule the same as other work based learning students, and would be responsible for their own transportation to the approved internship site. An hour requirement would be 90 logged hours per semester to earn 0.5 credit. Students may repeat this experience for up to two years.

# School to Career Opportunities

SINCE 1991
YOUTH APPRENTICESHIP
WISCONSIN

**YOUTH APPRENTICESHIP** **2.0 credits, S1 and S2** **11-12**

**Prerequisites | Application & Interview, Info Session Attendance, Concurrent Enrollment in Related Coursework**

**Description**: Students must apply for this learning opportunity. A prospective Youth Apprenticeship meeting will be held the beginning of second semester. Attendance is mandatory for participation in the Youth Apprenticeship program. Students are required to provide own transportation to class and the worksite during the day. Students enrolled in the Youth Apprenticeship program must also be enrolled in concurrent courses at the high school or through the Youth Apprenticeship program. Students will need to meet with a Counselor and the School to Career Coordinator before applying for this program. The Youth Apprenticeship Program is a unique opportunity for Juniors and Seniors to start preparing for a career while still in high school. The one- or two-year program provides the opportunity for work-based learning, occupational instruction and academic education. As a youth apprentice, students will earn an hourly wage while learning from skilled professionals. While enrolled in the Youth Apprenticeship program, students will develop academic and occupational skills necessary for employment. Students must concurrently enroll in a course related to their Apprenticeship; options for Waunakee High School courses, online courses, apprenticeship-related courses, or postsecondary courses are available to meet this requirement. Students must complete: 450 hours of on-the-job experience during the year, all meeting and journaling requirements, and a skills portfolio in order to earn 1.0 credit per semester. Students may repeat this experience for up to two years.

**YOUTH APPRENTICESHIP PROGRAMS**

- Agriculture & Natural Resource Youth Apprenticeship YAP3011-3012
- Architecture & Construction Youth Apprenticeship YAP3061-3062
  ***Includes Carpentry, Electrical, Heavy Equipment, HVAC, Plumbing, Utilities Field Tech***
- Auto Technician Youth Apprenticeship YAP3111-3112
- Aviation Maintenance Youth Apprenticeship YAP3621-3622
- Biotechnology (STEM) Youth Apprenticeship YAP3161-3162
- Broadcast Journalism Youth Apprenticeship YAP3531-3532
- Business Admin Youth Apprenticeship YAP3651-3652
- Certified Nursing Assistant Youth Apprenticeship YAP3211-3212
- Engineering (STEM) Youth Apprenticeship YAP3261-3262
- Finance Youth Apprenticeship YAP3311-3312
  ***Includes Banking or Accounting***
- Graphic Arts Youth Apprenticeship YAP3361-3362
- Health Youth Apprenticeship YAP3411-3412
  ***Includes Dental Assistant, Dietary Aide, Medical Assistant, Medical Imaging, Medical Lab, Medical Office, Optical Assistant, Pharmacy Tech, Phlebotomy, PT Aide, Resident Aide***
- Education Youth Apprenticeship YAP3431-3432
  ***Includes Early Childhood or School Age***
- Hospitality Youth Apprenticeship YAP3461-3462
- Information Technology Youth Apprenticeship YAP3561-3562
- Insurance Youth Apprenticeship YAP3511-3512
- Manufacturing Youth Apprenticeship YAP3611-3612
- Marketing Youth Apprenticeship YAP3661-3662
- Pharmacy Technician Youth Apprenticeship YAP4011-4012
- Vet Technician Youth Apprenticeship YAP3811-3812

# School to Career Opportunities

**YOUTH APPRENTICESHIP PROGRAM FRAMEWORK**

Key elements of the youth apprenticeship program are:

- Industry-developed skill standards
- Exposure to multiple aspects of the industry
- Skilled mentors assigned to train the students
- Paid on-the-job work experience
- Related classroom instruction concurrent with work-based learning
- Curriculum guidelines for all programs
- Performance evaluation of demonstrated competencies
- State-issued skill certificate

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

**OTHER SCHOOL TO CAREER COURSES**

**BIOTECHNOLOGY I, II, III, IV** **0.5 credits/Sem, S1 and/or S2** **11-12**

**Prerequisites | Application, Approved Biotechnology Youth Apprenticeship Program**

**Description**: These courses are made available through a partnership with the BioPharmaceutical Technology Center Institute (5445 E. Cheryl Parkway, Fitchburg) to provide approved Biotech Youth Apprenticeship students with a lab-based classroom experience. Biotech I and II focus on orientation, lab basics-making solutions, resume writing and interviewing, DNA isolation and spectrophotometry, restriction enzyme digestion, polymerase chain reaction, current biotechnology topics, protein quantitation and purification, immunodetection: dot blot, ELISA, and western blot. Biotech III and IV focus on STR analysis, RNA isolation, RT-PCR, protein induction purification, gel & transfer, bioinformatics, CRISPR/Genomic Editing, COVID, and tissue culture. All courses are on-site at the BTC Institute one evening per week for a full semester, and all courses are graded and listed on a student's transcript (tuition paid by district, transportation the responsibility of the student/family). All Biotech courses emphasize professional career and technical lab skills.

**CERTIFIED NURSING ASSISTANT** **0.75 credits, S1 or S2 or Summer** **10-12**

**Prerequisites | Application**

**Description**: This class will prepare students for employment as nursing assistants. Students learn communication skills, basic nursing and personal care skills, clients' rights and care of clients with dementias. A supervised clinical experience with direct client care is a major component of the course. Upon completion, the student is eligible to take the certification for the Wisconsin Nurse Aide Registry. Enrollment Requirements: Must meet minimum age requirements, complete a Background Check, Health Screening, and Reading Requirements. Students who are interested in this program should speak with the School to Career Coordinator on available options through Madison College and Quality CNA. There is an application process and classes are highly competitive. All courses are off-site for 6-8 weeks (generally 3-4 evenings per week), and all courses are graded and listed on a student's transcript (tuition paid by district, transportation the responsibility of the student/family).

# Dual Enrollment Opportunities

| WCHS COURSE NAME | DUAL ENROLLMENT PARTNERSHIP | POST-SECONDARY CREDITS | POST-SECONDARY COURSE NAME |
|---|---|---|---|
| Accounting I | Madison College | 3 | Accounting Principles |
| Biotech Career Apps | Madison College | 1 | Biotech Career Seminar |
| Biotechnology | Madison College | 1 | Biotechnology Applications |
| Concepts of Entrepreneurship | Univ of Iowa | 3 | Exploring Entrepreneurship |
| Education in a Pluralistic Society | Madison College | 3 | Education in a Pluralistic Society |
| French V | UW-Oshkosh | 5 | French 204 |
| Intro to Education & Teaching | Madison College | 3 | Intro to Education & Teaching |
| Marketing 1 | Madison College | 3 | Marketing Principles |
| Medical Terminology | Madison College | 3 | Medical Terminology |
| Metal Fabrication | Madison College | 3 | Fabrication 1 |
| MS Office for Business Applications | Madison College | 3 | Microsoft Office for Business Applications |
| Selling Principles | Madison College | 3 | Selling Principles |
| Senior Mathematical Reasoning | Madison College | 3 | Mathematical Reasoning |

# Dual Enrollment Opportunities

| WCHS COURSE NAME | DUAL ENROLLMENT PARTNERSHIP | POST-SECONDARY CREDITS | POST-SECONDARY COURSE NAME |
|---|---|---|---|
| Social Media Marketing | Madison College | 3 | Social Media Marketing |
| Spanish V | UW-Oshkosh | 5 | Spanish 204 |
| Spanish VI | UW-Oshkosh | 5 | Spanish 312 |
| Welding | Madison College | 3 | Basic Arc (SMAW) |

**MADISON COLLEGE DUAL CREDIT**

All students in dual credit courses must complete the enrollment process with Madison College. In addition, Madison College requires that students earn a C or higher in order to be awarded college credits for successful completion of any dual credit course. For more information on dual credit, visit Madison College Dual Credit for High School Students.

**UW-OSHKOSH (CAPP) DUAL CREDIT**

Enrolling in the University of Wisconsin Oshkosh Cooperative Academic Partnership Program (CAPP) courses is a convenient and affordable way for high school students to earn concurrent high school and college credit, while developing key skills for future success. Click here for more information on the CAPP Program. In CAPP courses students experience the challenge of college curriculum while in a high school environment, which:

- sets them apart from other college applicants.
- gives them the opportunity to register earlier.
- allows them to explore a variety of options while in college.
- provides them a chance to double major and graduate on time.
- lessens their course load.
- helps them graduate early.

**UNIVERSITY OF IOWA DUAL CREDIT**

Across the University of Iowa, innovation and entrepreneurship are acknowledged as crucial to young people's future success. That's why the university's Jacobson Institute, creator of BizInnovator Startup, and the Tippie College of Business have partnered to offer high school students college credit. BizInnovator Startup students who qualify can earn three transferable college credits. These students demonstrate that they understand the concepts, have gained the 21st century skills they'll need to succeed and are ready for the next step in life.
For more information on this program, visit College Credit - BizInnovator.

# Course Changes from 2025-26

## NO LONGER OFFERED STARTING IN 2026-27

| DEPT | COURSE | NOTES |
|---|---|---|
| BUSINESS & MARKETING | **MARKETING 2** | Students will have the opportunity to take two different semester Dual Credit courses (Social Media Marketing & Selling Principles), as well as New Product Development & Market Research. |
| COMM ARTS | **ADV ENGLISH 10** | Students will have the opportunity to take AP Seminar English 10 |
| COMP SCI | **IT ESSENTIALS** | Students will have the opportunity to take AP Computer Science Principles - Cybersecurity |

## NEW OFFERINGS STARTING IN 2026-27

| DEPT | COURSE | NOTES |
|---|---|---|
| BUSINESS & MARKETING | **SOCIAL MEDIA MARKETING (DC)** | Available for grades 11 or 12, semester long course offered both fall and spring. Dual credit (3 cr.) with Madison College. |
| BUSINESS & MARKETING | **SELLING PRINCIPLES (DC)** | Available for grades 11 or 12, semester long course offered in the fall. Dual credit (3 cr.) with Madison College. |
| BUSINESS & MARKETING | **NEW PRODUCT DEV & MARKET RESEARCH** | Available for grades 11 or 12, semester long course offered in the spring. This course will be offered in alternating years starting in 2027-28. |
| COMM ARTS | **AP SEMINAR ENGLISH 10** | Available for grade 10, replaces Advanced English 10. |
| COMP SCI | **AP COMPUTER SCIENCE PRINCIPLES - CYBERSECURITY** | Available for grades 10-12, replaces IT Essentials. |

# Course Snapshot & Program of Study Summary

**Notation Key:**

C | UW-Oshkosh Cooperative Academic Partnership Program (CAPP)
DC | Dual Credit (with Madison College unless noted otherwise)
EM | Equivalency Math Credit
ES | Equivalency Science Credit
L1 | One Laude Point
L2 | Two Laude Points
N | NCAA Approved Course
P | Project Lead the Way (PLTW)
R | Satisfies a Required Course for Graduation

**NOTE:** L2 designation on music classes is contingent on four years of participation plus one class "A" solo

| Programs of Study / Courses | Advanced Manufacturing | Agriculture | Arts, Entertainment, & Design | Construction | Digital Technology | Education | Energy & Natural Resources | Financial Services | Healthcare & Human Services | Hospitality, Events, & Tourism | Management & Entrepreneurship | Marketing & Sales | Public Service & Safety | Supply Chain & Transportation | Grade Levels | Semester | Notations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Agriculture Education** | | | | | | | | | | | | | | | | | |
| Agriculture Business | | X | | | | X | | | | | | | | | 11-12 | 1 | |
| Agri Machine & Buildings | X | X | | X | | X | | | | | | | | X | 10-12 | 1 | |
| Animal Science | | X | | | | X | | | | | | | | | 10-12 | 1 | ES, N |
| Food Science | | X | | | | X | | | | X | | | | | 10-12 | 2 | |
| Introduction to Agriculture | | X | | | | X | X | | | | | | | | 9-10 | 2 | |
| Landscaping Design | | X | | | | X | X | | | | | | | | 10-12 | 2 | |
| Livestock & Equine Management | | X | | | | X | | | | | | | | | 10-12 | 2 | |
| Natural Resources I | | X | | | | X | X | | | | | | | | 9-10 | 1 | |
| Natural Resources II | | X | | | | X | X | | | | | | | | 10-12 | 1 | |
| Plant Science | | X | | | | X | X | | | | | | | | 9-12 | 1 | |
| Small Animal & Pet Care | | X | | | | X | | | | | | | | | 9-10 | 2 | |
| Veterinary Science | | X | | | | X | | | | | | | | | 10-12 | 2 | ES |
| **Art Education** | | | | | | | | | | | | | | | | | |
| 2D Art Foundations | | | X | | | X | | | | | | X | | | 9-12 | 1 or 2 | |
| 3D Art Foundations | | | X | | | X | | | | | | X | | | 9-12 | 1 or 2 | |
| 3D Computer Animation | | | X | | X | X | | | | X | | X | | | 10-12 | 2 | |
| 3D Computer Animation II | | | X | | X | X | | | | X | | X | | | 11-12 | 2 | |
| Advanced 2D Art | | | X | | | X | | | | | | X | | | 11-12 | 1 | |
| Advanced 3D Art | | | X | | | X | | | | | | X | | | 11-12 | 2 | |
| Advanced Art Workshop | | | X | | | X | | | | | | X | | | 12 | 2 | L1 |
| Art Metals | | | X | | | X | | | | | | X | | | 10-12 | 1 | |
| Big IDEA | X | X | X | X | X | X | | | | | | X | | X | 10-12 | 1 or 2 | |
| Ceramics | | | X | | | X | | | | | | X | | | 10-12 | 1 | |
| Drawing & Printmaking | | | X | | | X | | | | | | X | | | 10-12 | 2 | |
| Graphic Design | | | X | | X | X | | | | X | X | X | | | 9-12 | 2 | |
| IDEA | X | X | X | X | X | X | | | | | | X | | X | 9-12 | 1 or 2 | |
| Painting | | | X | | | X | | | | | | X | | | 10-12 | 1 | |
| Photography | | | X | | | X | | | | X | | X | | | 10-12 | 2 | |
| Photoshop | | | X | | X | X | | | | X | X | X | | | 10-12 | 1 | |
| Photoshop II | | | X | | X | X | | | | X | X | X | | | 11-12 | 1 | |
| Textiles | | | X | | | X | | | | | | X | | | 10-12 | 2 | |

# Course Snapshot & Program of Study Summary

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P | Project Lead the Way (PLTW)
R | Satisfies a Required Course for Graduation

**NOTE:** L2 designation on music classes is contingent on four years of participation plus one class "A" solo

| Programs of Study / Courses | Advanced Manufacturing | Agriculture | Arts, Entertainment, & Design | Construction | Digital Technology | Education | Energy & Natural Resources | Financial Services | Healthcare & Human Services | Hospitality, Events, & Tourism | Management & Entrepreneurship | Marketing & Sales | Public Service & Safety | Supply Chain & Transportation | Grade Levels | Semester | Notations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Business & Information Technology & Marketing** | | | | | | | | | | | | | | | | | |
| Accounting (DC) | | X | | | | X | | X | | X | X | X | X | X | 10-12 | 1 & 2 | DC |
| Advanced Accounting | | | | | | X | | X | | | X | X | X | | 11-12 | 1 & 2 | L2 |
| Career Workshop | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 | 1 or 2 | R |
| Concepts of Entrepreneurship (DC) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 | DC |
| Global Business | | | | | | X | | X | X | X | X | X | X | | 11-12 | 1 | |
| Management & Ethics | X | | | X | | X | X | X | X | X | X | X | X | X | 11-12 | 2 | N |
| Marketing 1 (DC) | X | X | | | | X | | X | | X | X | X | X | | 10-12 | 1 & 2 | DC |
| MS Office Basics | X | X | | | X | X | | | X | X | X | X | X | X | 9-12 | 1 or 2 | |
| MS Office for Business Apps (DC) | X | X | | | X | X | X | X | X | X | X | X | X | X | 9-12 | 2 | DC |
| New Product Dev & Market Research | | | | | | S | | X | X | X | X | X | X | | 11-12 | 2 | |
| Personal Finance | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-10 | 1 or 2 | R |
| Selling Principles (DC) | | | | | | X | | X | X | X | X | X | X | X | 11-12 | 1 | DC, L1 |
| Social Media Marketing (DC) | | | | | | X | | X | X | X | X | X | X | | 11-12 | 1 or 2 | DC, L1 |
| Sports & Entertainment Marketing | | | | | | X | | | | X | X | X | X | | 11-12 | 2 | |
| Video Editing and Digital Design | | | X | | X | X | | | | X | X | X | X | | 11-12 | 1 | |
| Web Design | | | X | | X | X | | | | X | X | X | X | | 10-12 | 2 | |
| **Communication Arts** | | | | | | | | | | | | | | | | | |
| Advanced Composition | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 | N |
| Advanced Creative Writing | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 2 | L1, N |
| Advanced English 9 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9 | 1 & 2 | L2, N, R |
| AP English Language & Composition | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11 | 1 & 2 | L2, N |
| AP English Literature & Composition | | | | | | X | | | | | | | X | X | 12 | 1 & 2 | L2, N |
| AP Seminar English 10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 | 1 & 2 | L2, N, R |
| American Literature | | | | | | X | | | | | | | | X | 11-12 | 2 | N |
| Creative Writing | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 or 2 | N |
| Dramatic Literature | | | X | | | X | | | | | | | | X | 11-12 | 1 | N |
| English 9 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9 | 1 & 2 | N, R |
| English 10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 | 1 & 2 | N, R |
| Mass Media | | | X | X | | X | | | | X | | X | | | 11-12 | 2 | N |
| Modern Literature | | | | | | X | | | | | | | | X | 11-12 | 1 | N |
| Multicultural Literature | | | | | | X | | | | | | | | X | 11-12 | 2 | N |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Communication Arts** | | | | | | | | | | | | | | | | | |
| Persuasion & Debate | | | X | | X | X | | X | X | X | X | X | X | X | 11-12 | 2 | N |
| Science Fiction Literature | | | | | | X | | | | | | | | X | 11-12 | 2 | N |
| Speech | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 | N |
| Sports Media Production | | | X | | X | X | | | | | | X | | | 11-12 | 1 &/or 2 | |
| Women's Literature | | | | | | X | | | | | | | | X | 11-12 | 1 | N |
| **Computer Science** | | | | | | | | | | | | | | | | | |
| AP Computer Science A | X | | | | X | X | | X | | | X | X | X | X | 11-12 | 1 & 2 | EM, L2, N |
| AP Comp Sci Principles - Cybersec | X | | | | X | X | | X | | | X | X | X | X | 10-12 | 1 & 2 | L2, N |
| Computational Thinking | X | | | | X | X | | X | | | X | X | X | X | 9-12 | 1 or 2 | EM, N |
| Computer Science I | X | | | | X | X | X | X | X | | X | X | X | X | 10-12 | 1 or 2 | |
| Computer Science II | X | | | | X | X | X | X | X | | X | X | X | X | 11-12 | 2 | |
| Game Design | | | X | | X | X | | | | | X | X | X | X | 9-12 | 2 | |
| **Family and Consumer Science Education** | | | | | | | | | | | | | | | | | |
| Baking & Pastry Arts | | X | | | | X | | | | X | | | | | 10-12 | 1 or 2 | |
| Child Care I | | | | | | X | | | X | X | | | | | 10-12 | 1 | |
| Child Care II | | | | | | X | | | X | X | | | | | 11-12 | 2 | |
| Creative Fashions | | | X | | | X | | | | | | X | | | 10-12 | 2 | |
| Culinary Arts I | | X | | | | X | | | | X | | | | | 9-12 | 1 or 2 | |
| Culinary Arts II | | X | | | | X | | | | X | | | | | 10-12 | 2 | |
| Culinary Arts III | | X | | | | X | | | | X | | | | | 11-12 | 1 & 2 | |
| Education in a Pluralistic Society (DC) | | | | | | X | | | X | | | | | | 11-12 | 2 | DC |
| Fashion & Fabrics | | | X | | | X | | | | | | X | | | 9-12 | 1 | |
| Interiors & Housing Services | | | X | X | | X | | | | | | X | | | 10-12 | 2 | |
| Intro to Education & Teaching (DC) | | | | | | X | | | | | | | | | 11-12 | 1 | DC |
| Personal Relationships | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 | 1 | |
| **Health and Health Science Education** | | | | | | | | | | | | | | | | | |
| Advanced Health | | | | | | X | | | X | | | | X | | 11-12 | 1 or 2 | |
| Foundations of Healthcare Delivery | | | | | | X | | | X | | | | X | | 9-12 | 1 or 2 | |
| Health & Wellness | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 | 1 or 2 | R |
| Health Science Occupations | | | | | | X | | | X | | | | X | | 9-12 | 1 or 2 | |
| Medical Terminology | | X | | | | X | | | X | | | | X | | 10-12 | 1 or 2 | DC |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mathematics** | | | | | | | | | | | | | | | | | |
| Advanced Algebra | X | | | X | X | X | X | | | | | | X | | 9-12 | 1 & 2 | N |
| Algebra I | X | | | X | X | X | X | | | | | | X | | 9-10 | 1 & 2 | N |
| AP Calculus AB | X | | | | X | X | | X | X | | | | | X | 11-12 | 1 & 2 | L2, N |
| AP Calculus BC | | | | | | X | | | | | | | | | 12 | 1 & 2 | L2, N |
| AP Statistics | X | X | X | X | X | X | | X | X | X | X | X | | X | 11-12 | 1 & 2 | L2, N |
| FST | X | | | | | X | X | | | | | | | X | 10-12 | 1 & 2 | N |
| FST/Pre-Calculus | | | | | | X | | | | | | | | | 10-12 | 1 & 2 | L2, N |
| Geometry | X | | | X | X | X | X | | | | | | X | | 9-11 | 1 & 2 | N |
| Intro to Discrete Math | | | | | X | X | | | | | | | | | 11-12 | 2 | N |
| Intro to Statistics | X | X | X | X | X | X | | X | X | X | X | X | | X | 11-12 | 1 | N |
| Pre-Calculus | X | | | | X | X | X | X | X | | X | X | X | | 11-12 | 1 & 2 | L2, N |
| Senior Mathematical Reasoning (DC) | | | | | | X | | | | | | | | | 12 | 1 & 2 | DC, N |
| **Music** | | | | | | | | | | | | | | | | | |
| Band | | | X | X | X | X | | | X | X | X | X | | | 10-12 | 1 & 2 | L2 (note) |
| Chorale | | | X | X | X | X | | | X | X | X | X | | | 9-12 | 1 & 2 | L2 (note) |
| Concert Band | | | X | X | X | X | | | X | X | X | X | | | 9 | 1 & 2 | L2 (note) |
| Concert Choir | | | X | X | X | X | | | X | X | X | X | | | 10-12 | 1 & 2 | L2 (note) |
| Digital Music Production | | | X | X | X | X | | | X | X | X | X | | | 9-12 | 2 | |
| Jazz Improvisation | | | X | X | X | X | | | X | X | X | X | | | 9-12 | 1 | |
| Music History | | | X | X | X | X | | | X | X | X | X | | | 9-12 | 2 | |
| Music Theory & Composition | | | X | X | X | X | | | X | X | X | X | | | 10-12 | 1 | |
| Philharmonic Orchestra | | | X | X | X | X | | | X | X | X | X | | | 9 | 1 & 2 | L2 (note) |
| Sonoro | | | X | X | X | X | | | X | X | X | X | | | 11-12 | 1 & 2 | L2 (note) |
| Symphony Orchestra | | | X | X | X | X | | | X | X | X | X | | | 10-12 | 1 & 2 | L2 (note) |
| The Music Workshop | | | X | X | X | X | | | X | X | X | X | | | 9-12 | 1 | |

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| **Physical Education** | | | | | | | | | | | | | | | | | |
| Advanced Fitness | | | | | | X | | | | | | | X | | 11-12 | 1 or 2 | |
| Intro to Physical Education | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-10 | 1 or 2 | R |
| Lifeguard Certification | | | | | | X | | | | | | | X | | 10-12 | 2 | |
| Lifetime Individual Activities | | | | | | X | | | | | | | X | | 10-12 | 1 or 2 | |
| Lifetime Team Activities | | | | | | X | | | | | | | X | | 10-12 | 1 or 2 | |
| Strength & Conditioning | | | | | | X | | | | | | | X | | 10-12 | 1 or 2 | |
| Strength & Conditioning II | | | | | | X | | | | | | | X | | 10-12 | 1 or 2 | |
| Unified Physical Education | | | | | | X | | | | | | | X | | 10-12 | 1 or 2 | |
| **Science** | | | | | | | | | | | | | | | | | |
| AP Biology | | X | | | | X | X | | X | | | | | | 11-12 | 1 & 2 | L2, N |
| AP Chemistry | | | | | | X | | | | | | | | | 11-12 | 1 & 2 | L2, N |
| Biology | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9 | 1 & 2 | N, R |
| Biotech Career Apps (DC) | | X | | | | X | X | | X | | | | | | 10-12 | 1 | DC, N |
| Biotechnology (DC) | | X | | | | X | X | | X | | | | | | 10-12 | 2 | DC, L1, N |
| Chemical World | | | | | | X | | | | | | | | | 10-12 | 2 | N |
| Chemistry | X | | | X | | X | X | | X | | | | X | X | 10-12 | 1 & 2 | N |
| Ecology: Ecosystems of So. WI | | X | | | | X | X | | | | | | | | 11-12 | 1 | N |
| Ecology: Environment & You | | X | | | | X | X | | | | | | | | 11-12 | 2 | N |
| Geology | | | | | | X | X | | | | | | | | 10-12 | 2 | N |
| Human Anatomy & Physiology | | | | | | X | | | X | | | | X | | 11-12 | 1 | N |
| Human Anatomy & Physiology II | | | | | | X | | | X | | | | X | | 11-12 | 2 | N |
| Intro to Astronomy | | | | | | X | | | | | | | | | 10-12 | 1 or 2 | N |
| Physical World | | | | | | X | | | | | | | | | 10-12 | 1 | N |
| Physics | X | | | X | X | X | X | | | | | | | X | 11-12 | 1 & 2 | N |
| Physics II | X | | | X | X | X | | | | | | | | X | 12 | 1 &/or 2 | L1 (sem), N |
| Principles of Biomedical Science | | | | | | X | | | X | | | | | | 9-10 | 1 & 2 | N, P |
| Principles of Engineering | X | | | X | X | X | | | | | | | | X | 11-12 | 1 & 2 | ES, L2, N, P |
| Weather & Climate | | | | | X | X | X | | | | | | | | 10-12 | 1 or 2 | N |

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| **Social Studies** | | | | | | | | | | | | | | | | | |
| AP European History | | | | | | X | | | | | | | | | 11-12 | 1 & 2 | L2, N |
| AP Macroeconomics | X | X | | X | X | X | X | X | | | X | X | X | X | 11-12 | 1 | L1, N |
| AP Psychology | | | | X | X | X | | X | X | X | X | X | X | X | 11-12 | 1 & 2 | L2, N |
| AP US Government & Politics | X | X | | X | X | X | X | X | | | X | | X | X | 11-12 | 1 & 2 | L2, N |
| AP US History | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10-12 | 1 & 2 | L2, N, R |
| African American Studies | | | | | | X | | | | | | | | | 11-12 | 2 | N |
| America in Conflict - US Military Hist | | | | | | X | | | | | | | | | 11-12 | 1 | N |
| Economics | X | X | | X | X | X | X | X | | X | X | X | X | X | 11-12 | 1 | N |
| Exploring Wisconsin | X | X | | | | X | X | | | X | | X | X | | 11-12 | 2 | N |
| Issues in Psychology | X | | | X | X | X | | X | | X | | X | X | | 10-12 | 1 or 2 | N |
| Law | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 | 1 or 2 | N, R |
| Modern Global Studies | | X | | | | X | X | | | X | | X | | | 10-12 | 1 | N |
| Social Problems | | X | | X | | X | X | | X | X | | X | X | | 10-12 | 1 | N |
| Sociology | | | | X | X | X | | X | X | X | X | X | X | X | 10-12 | 2 | N |
| Sports Psychology | | | | | | X | | | X | | | | | | 11-12 | 1 or 2 | N |
| US History | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 | 1 & 2 | N, R |
| US Indigenous Studies | | | | | | X | | | | | | | | | 11-12 | 1 | N |
| World History | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9 | 1 & 2 | N, R |
| **Technology & Engineering Education** | | | | | | | | | | | | | | | | | |
| Architectural Drafting | | | X | X | | X | | | | | | | | X | 10-12 | 2 | |
| Auto Mechanics | | X | | X | X | X | | | | | | | | X | 11-12 | 2 | |
| Basic Home & Auto Maintenance | | X | | X | | X | | | | | | | | | 11-12 | 2 | |
| Big IDEA | X | X | | X | X | X | | | | | | | | X | 10-12 | 1 or 2 | |
| Construction I | | | | X | | X | | | | | | | | | 10-12 | 1 | |
| Construction II | | | | X | | X | | | | | | | | | 10-12 | 2 | |
| Digital Electronics | X | | | X | X | X | X | | | | | | | X | 10-12 | 1 & 2 | P |
| Engineering Design & Development | X | | | X | | X | | | | | | | | X | 12 | 1 & 2 | L2, P |
| IDEA | X | X | | X | X | X | | | | | | | | X | 9-12 | 1 or 2 | |

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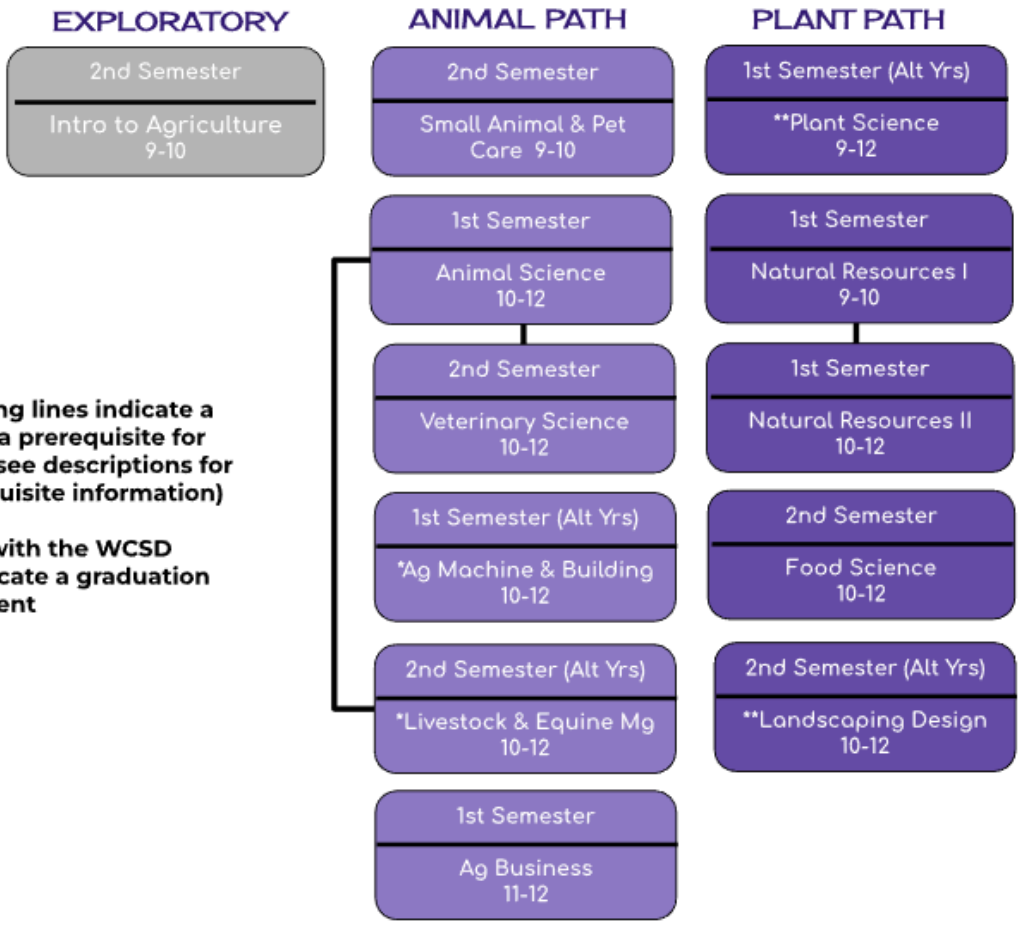
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Technology & Engineering Education** | | | | | | | | | | | | | | | | | |
| Intro to Engineering Design | X | | | X | | X | | | | | | | | X | 9-12 | 1 & 2 | P |
| Metal Fabrication (DC) | X | X | | X | | X | X | | | | | | | X | 10-12 | 2 | DC |
| Metal Technology | X | X | | X | | X | X | | | | | | | X | 10-12 | 1 | |
| Principles of Engineering (ES) | X | | | X | X | X | | | | | | | | X | 11-12 | 1 & 2 | N, L2, P |
| Print Publications | | | X | | X | X | | | | | | | | | 9-12 | 1 &/or 2 | |
| Small Engine Technology | | X | | X | X | X | | | | | | | | X | 10-12 | 1 | |
| Welding (DC) | X | X | | X | | X | X | | | | | | | X | 10-12 | 2 | DC |
| Woods I | X | | | X | | X | | | | | | | | | 9-12 | 1 | |
| Woods II | X | | | X | | X | | | | | | | | | 10-12 | 2 | |
| **World Language** | | | | | | | | | | | | | | | | | |
| French I | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| French II | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| French III | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10-12 | 1 & 2 | N |
| French IV | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 & 2 | N |
| French V | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 | 1 & 2 | C, L2, N |
| Mandarin Chinese I | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| Mandarin Chinese II | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| Mandarin Chinese III | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10-12 | 1 & 2 | N |
| Mandarin Chinese IV | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 & 2 | L2, N |
| Mandarin Chinese V | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 | 1 & 2 | L2, N |
| Spanish I | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| Spanish II | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| Spanish III | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-12 | 1 & 2 | N |
| Spanish IV | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10-12 | 1 & 2 | N |
| Spanish V | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 & 2 | C, L2, N |
| Spanish VI | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 | 1 & 2 | C, L2, N |
| Spanish Language Arts I | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 9-10 | 1 & 2 | N |
| Spanish Language Arts II | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 11-12 | 1 & 2 | N |

# Agriculture Education




**Connecting lines indicate a course is a prerequisite for another (see descriptions for all prerequisite information)**

**Courses with the WCSD Logo indicate a graduation requirement**

**COURSES OFFERED IN 2026-27***
*Agriculture Machinery & Buildings
*Livestock & Equine Management

**COURSES OFFERED IN 2027-28****
**Plant Science
**Landscaping Design

**AGRICULTURAL BUSINESS (AGR3011)** **0.5 credits, S1** **11-12**
**Prerequisite | Any Ag Class or Biotechnology**
**Description**: Agricultural Businesses are unique and diverse, giving many the tools to help others around the world. Many aspects of Agricultural Business will be covered, including financial instruments, farm management, economics, global food markets and marketing, financial strategies, and entrepreneurship. This course will have many business speakers and field trips along with connections to students SAE projects. Students are encouraged to take an agriculture course prior to enrolling to help create a broad understanding of agricultural industries.

**AG MACHINE & BUILDINGS (AGR2021)** **0.5 credits, S1 (ALTERNATING YEARS)** **10-12**
**Prerequisite | Any Ag or Tech Ed Course**
**Description**: Students will learn about different aspects in agricultural mechanics, engineering, building and precision agriculture. Alongside student's SAE projects, students will be learning through speakers, field trips, projects and time in shop environments. Units of study include: AG Mechanics, Farm Machinery, Agriculture Engineering, Equipment Maintenance, Fencing, Structures, Building Materials, Facility Planning, Precision Agriculture and Land Surveying.

# Agriculture Education

**ANIMAL SCIENCE (AGR2031)** **0.5 credits, S1, Equivalency Science Credit (ES)** **10-12**
**Prerequisite | Biology**
**Description**: **Science credit is awarded for successful completion of this course as it is recognized as a science equivalency by the Wisconsin Department of Public Instruction as a third science credit. Please note that a maximum of 1.0 science credit may be earned from all (ES) courses completed.** This course is designed for the student who wants to understand animals. Students will learn about the importance of animals in today's society and how they function. The course studies anatomy, physiology, genetics (cloning), reproduction, digestion, nutrition, lactation, and veterinary science. This is an excellent introduction for those students thinking of becoming veterinarians. This is heavily lab and activity based. Students will complete an SAE Project to explore and earn skills in a career/area of their choice. Units of Study include: Reproduction-physiology, mechanics; Feeds; Digestion; Animal Uses & Roles; Vet Science; Anatomy; Genetics; Nutrition; Physiology.

**FOOD SCIENCE (AGR2042)** **0.5 credits, S2** **10-12**
**Prerequisite | Biology**
**Description**: Students will explore student interest in the production, processing, marketing, and behavior of food substances. Students will use the scientific method to explore the chemical makeup of food and the biology of how foods interact with each other. Alongside student SAE Projects, students will work heavily in the lab and with speakers/experiments to understand food. Units of study may include: food additives, food processing & preservation, fermentation, dairy products, meat products, grains & plant products and food safety/grading.

**INTRO TO AGRICULTURE (AGR1022)** **0.5 credits, S2** **9-10**
**Description**: This course explores the remaining opportunities in the Agriculture Department. Students will actively investigate the different areas through projects, labs, hands-on activities and field trips. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Small/Large Animal Science – pets, horses, dairy, livestock, judging, hatching chicks; Leadership – Leadership Analysis – Techniques; Plant Science – identification, basic care; Food Science/Biotechnology meats, cheese and yogurt-making, product identification.

**LANDSCAPING DESIGN (AGR2052)** **0.5 credits, S2 (ALTERNATING YEARS)** **10-12**
**Description**: Through lab-based experiences, students will create landscape designs on both paper and computer models. Students will also implement projects for home, community, or school improvement. Field trips to area landscapers and sites for analysis will be included. Outdoor projects are a major portion of the course. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Careers, Design Principles and Elements, Cost Estimation, Intro to Landscape Design, Landscape Structures, Landscape Establishment and Maintenance, Site Analysis, and Landscape Layouts.

**LIVESTOCK & EQUINE MGMT (AGR2062)** **0.5 credits, S2 (ALTERNATING YEARS)** **10-12**
**Prerequisite | Animal Science**
**Description**: Through hands-on labs and activities, the students will practice and develop animal care techniques used with large animals. Students will learn how to properly manage animals for their production and profit. This course is heavily lab and activity based with field trips included. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Management and judging of beef, dairy, fish, poultry, sheep, and swine.

# Agriculture Education

**NATURAL RESOURCES I (AGR1011)** **0.5 credits, S1** **9-10**

**Description**: This course will offer students the opportunity to explore natural resources through hands-on labs and activities. Career opportunities are investigated throughout the different units. This course is heavily based on lab activities and exercises, and involves extensive outdoor experiences. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Forestry, Water Quality, Soils, Wildlife, White-Tailed Deer, Natural Resource Management, Decision Making, and Careers.

**NATURAL RESOURCES II (AGR2011)** **0.5 credits, S1** **10-12**

**Prerequisite | Natural Resources I or Ecology**

**Description**: Through field trips, projects, and hands-on experiences, students will learn about Wisconsin's resources of wildlife, water, soil and outdoor recreation. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Wildlife and ecosystems, furbearers, tanning hides, trapping, waterfowl, fish, taxidermy, water quality, soils, soil erosion and control, outdoor recreation, and alternative energy.

**PLANT SCIENCE (AGR1071)** **0.5 credits, S1 (ALTERNATING YEARS)** **9-12**

**Description**: This course focuses on hands-on learning about plants through the use and management of the Greenhouse, Outdoor Education Center and the "Garden of Dreams' (School and Community Garden). As a class, students will maintain and improve the plant life of the Outdoor Education Center to learn the principles of plant science and landscaping. This course is heavily lab-based and much of the first half of the semester will be spent outside. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Careers, Landscaping, Floriculture (flowers, bouquets, and boutonnières), Propagation, Greenhouse Management, Plant Identification, Pruning, Plant Nutrients/Fertilizer, Gardening, Plant Management (lawn, tree, shrub, vegetable, and houseplants).

**SMALL ANIMAL & PET CARE (AGR1082)** **0.5 credits, S2** **9-10**

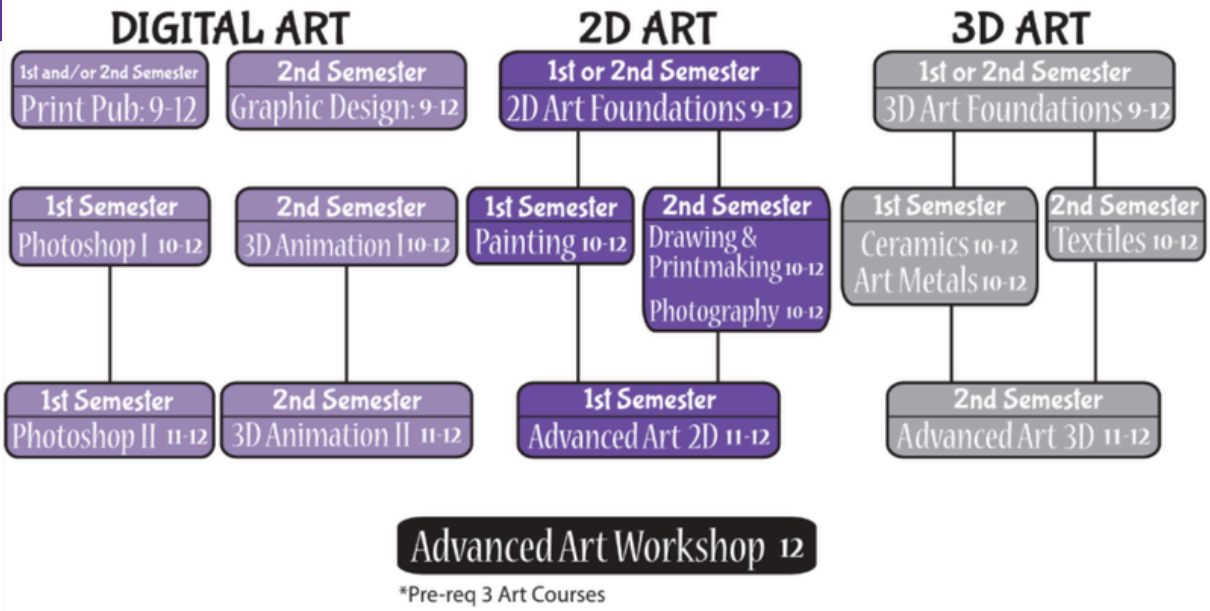
**Description**: Through projects, labs, and field trips, students will learn how to properly care for pets and recreational animals. Students will explore feeding, breeding, training and detection and control of disease and parasites. This course involves many hands-on activities with small animals and the care of project animals for the semester. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Dogs, cats, rodents, fish, reptiles, exotics, cost of pets, choosing a pet, and nutrition and digestion.

**VETERINARY SCIENCE (AGR2092)** **0.5 credits, S2, Equivalency Science Credit (ES)** **10-12**

**Prerequisite | Animal Science**

**Description**: **Science credit is awarded for successful completion of this course as it is recognized as a science equivalency by the Wisconsin Department of Public Instruction as a third science credit. Please note that a maximum of 1.0 science credit may be earned from all (ES) courses completed.** Students will actively gain skills and knowledge related to animal health and veterinary medicine through animals' labs, demonstrations, and partnerships with local veterinary clinics and veterinarians. Hands-on labs will be major portions of the course. Each student will complete an SAE Project, which allows them to explore and earn skills in a career/area of their choice. Units of Study include: Careers, Vet Medical Testing, Anatomy, Animal Handling & Restraint, Disease, Administrating Drugs, Hospital Procedures, Medical Instruments, Animal Therapy, Vet Math, Sanitation and Safety, and Medical Terminology.

# Art Education




**2D ART FOUNDATIONS (ART1011/1021)** **0.5 credits, S1 or S2, $10 Student Fee** **9-12**
**Description**: (Formerly Elements of Art 2D) Beginning level two-dimensional course which provides experiences in a variety of materials and techniques including drawing, painting, collage, printmaking, and photography. Covers a broad range of art topics, techniques, materials, genres, and concepts, including the elements and principles of design. In-class projects and out-of-class sketchbook assignments are required. No previous art experience necessary. This class is the prerequisite for the upper level 2D classes (Drawing & Printmaking, Photography, Painting).

**3D ART FOUNDATIONS (ART1021/1022)** **0.5 credits, S1 or S2, $10 Student Fee** **9-12**
**Description**: (Formerly Elements of Art 3D) Beginning level three-dimensional course which provides experiences in a variety of materials and techniques including ceramics, paper mache, metal smithing (jewelry making), found-object assemblage, and more. Covers a broad range of art topics, techniques, materials, genres, and concepts, including the elements and principles of design. In-class projects and out-of-class sketchbook assignments are required. No previous art experience necessary. This class is the prerequisite for the upper level 3D classes (Ceramics, Art Metals, Textiles).

**3D COMPUTER ANIMATION I (ART2042)** **0.5 credits, S2** **10-12**
**Description**: AutoDesk's Maya is a comprehensive 3D Animation Software. In this course students will use Maya to learn modeling, simulation, rendering. This course offers high-end character and effects toolsets along with increased productivity for modeling, texturing, and shader creation tasks. Units of Study include: how to build complex objects which interact with other objects in the scene. How to properly light the scene, apply surfaces to the various objects and show the physical effects when these objects influence each other. How to form objects and apply the forces of friction and gravity to model various short animations around 30 seconds in length. Create three or four short projects centered on some specific function, force or process.

**3D COMPUTER ANIMATION II (ART3042)** **0.5 credits, S2** **11-12**
**Description**: The second semester will focus on the special effects systems available under AutoDesk's Maya for the creation of complex and detailed world spaces and developing the necessary understanding of lighting, timing and movement for successful animation. We will also try our hand at full scale character creation going from idea to sketch to digital rough to finished player. As time allows we will also move on into the rather more challenging field of character animation of integration into a designed environment. Second semester students will be encouraged/expected to process the entire scope of animation as their semester project. From shoreline to edits to story boards to character sketches to layout to world mapping to character insertion and system interaction.

# Art Education

**ADVANCED 2D ART (ART3101)** **0.5 credits, S1, $10 Student Fee** **11-12**
**Prerequisite | Drawing & Printmaking or Painting or Photography**
**Description**: An overview of 2D Art with emphasis on the Design Principles. Art Elements are more advanced as we work with varied materials. Units of Study include: Design principles, silk screen printing, sketchbooks, watercolor, drawing, and acrylic.

**ADVANCED 3D ART (ART3102)** **0.5 credits, S2, $10 Student Fee** **11-12**
**Prerequisite | Art Metals or Ceramics or Textiles**
**Description**: An overview of 3D Art with emphasis on the Design Principles. Art Elements are more advanced as we work with varied materials in 3D. Units of Study include: Art Metals, Sketchbooks, Sculpture, Ceramics, Copper relief, Tie-dye (textiles), and 3D Painting.

**ADVANCED ART WORKSHOP (ART4012)** **0.5 credits, S2, $10 Student Fee** **12**
**Prerequisites | Three previous art courses**
**Description**: Independent course where students focus on their art strengths, explore new mediums and work on original ideas, and work to complete a required number of projects including a Career Unit. This class organizes the Senior Art Show. Sketchbooks required.

**ART METALS (ART2061)** **0.5 credits, S1, $10 Student Fee** **10-12**
**Prerequisite | 2D Art Foundations**
**Description**: An in-depth study of metal working techniques, materials, metal types, stone setting and metal design. Units of Study include: Appliqué, piercing, combination materials, and basic stone setting; Metal types, brass, nickel, silver, and copper; Surface treatments, chasing, copper enamel, and granulation; Field trip to Burnie's Rock Shop; Casting; Independent Work; and Written Semester Exam. Notebook/Sketchbook required.

**BIG IDEA (TEE1041/1042)** **0.5 credits, S1 or S2, $25 Student Fee** **10-12**
**Prerequisite | IDEA**
**Description**: See full course description under Tech Ed & Engineering.

**CERAMICS (ART2071)** **0.5 credits, S1, $10 Student Fee** **10-12**
**Prerequisite | 3D Art Foundations**
**Description**: An in-depth study of hand-building and wheel techniques. Sculpture, glazing and decorative techniques learning how to create both functional and decorative ceramic pieces. Units of Study include: Wheel pottery, hand-built pottery, slab, coil, trimming a wheel port, plaster molds, wheel altered.

**DRAWING & PRINTMAKING (ART2092)** **0.5 credits, S2, $10 Student Fee** **10-12**
**Prerequisite | 2D Art Foundations**
**Description**: This course is an in-depth study of printmaking techniques and history. Relief cut prints using linoleum and wood, intaglio printing using Plexiglas and screen printing. Students will print on a variety of materials including paper and cloth (can print on t-shirts and other apparel options). Students will learn how to layer multiple colors and carving stages to create more intricate final projects.

# Art Education

**GRAPHIC DESIGN (ART1032)** **0.5 credits, S2** **9-12**
**Description**: Basic design skills using Adobe with an emphasis on Illustration. Lessons will be based on concept development using the elements and principles of art. Text and gradients, shapes, color, drawing and composing, transforming and distorting objects, working with layers, patterns and brushes. The graphic design curriculum provides knowledge and skills necessary for employment in the Visual Arts Communication field. Units of Study include: Principles of design, vector art, creating text and gradients, drawing and composing, clipping masks, image trace, patterns and brushes.

**IDEA (TEE1041/1042)** **0.5 credits, S1 or S2, $25 Student Fee** **9-12**
**Description**: See full course description under Tech Ed & Engineering.

**PAINTING (ART2081)** **0.5 credits, S1, $10 Student Fee** **10-12**
**Prerequisite | 2D Art Foundations**
**Description**: An in-depth study of drawing and painting techniques, materials, styles, and historical overview. Portfolio continuation/structure, sketches and journals. Units of Study include: realistic and abstract assignments, colored pencil, drawing pencil, ink, charcoal, acrylic and watercolor paints. Sketchbook required.

**PHOTOGRAPHY (ART2102)** **0.5 credits, S2, $10 Student Fee** **10-12**
**Prerequisite | 2D Art Foundations or Graphic Design or Photoshop or Print Publications**
**Description**: This Photography course will continue black and white photography as an Art media. This course will review the basics of using a 35mm camera as well as to teach the basics of a digital camera. The student will become familiar with the technical aspects of both and yet the emphasis will remain with photography as an art form. The student will realize its potential as a possible career. Photoshop is the main software used.

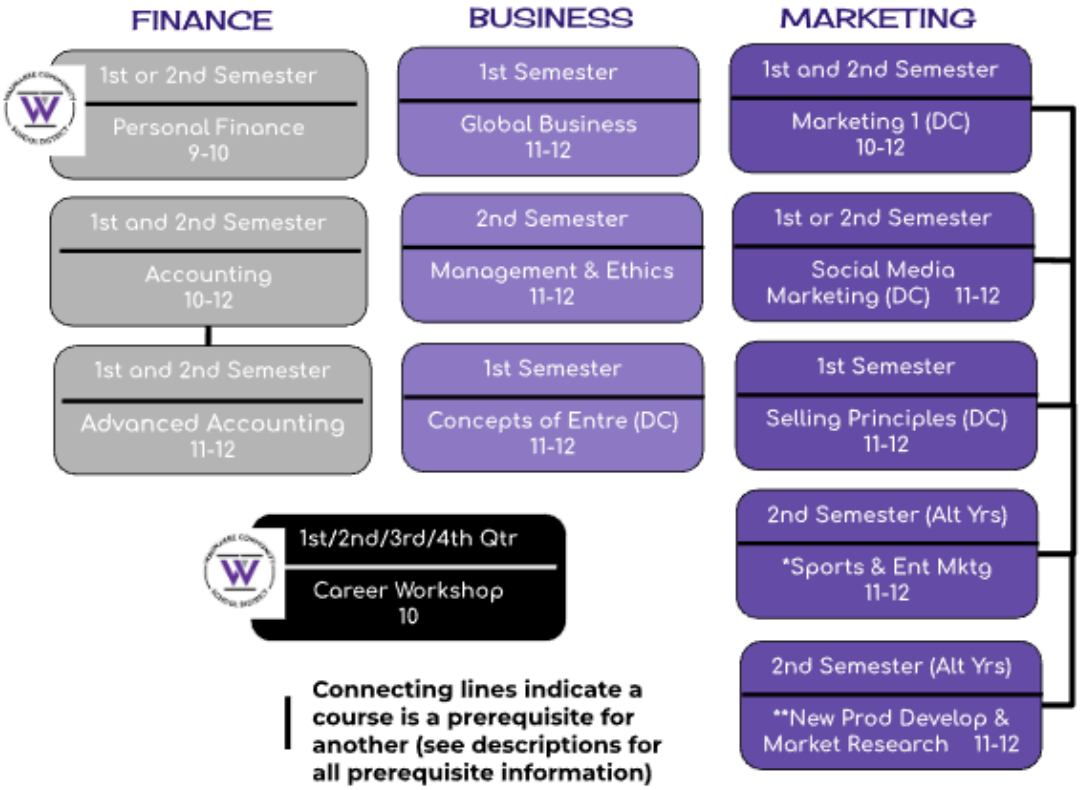
**PHOTOSHOP I (ART2031)** **0.5 credits, S1** **10-12**
**Description**: Over the course of the semester, students will learn how to make corrections to photographs and create their own images, designs or drawings. In Photoshop I, the students will learn the purpose of Photoshop, the tools and work area, basic photo correction skills, changing an image resolution and size, filters and how they manipulate a picture, how to work with layers and organize their artwork, how to select specific areas of an image and change them, how to correct and enhance digital photographs, blend them and create a mask to refine images.

**PHOTOSHOP II (ART3031)** **0.5 credits, S1** **11-12**
**Prerequisite | Photoshop I**
**Description**: Over the course of the semester, Students will learn the basics of portrait photography and how to post-process the shot to minimize flaws without altering the photo, and learn how to use a variety of tools to enhance or stylize the portrait as needed. They will also learn how to use the filters, adjustment layers and a variety of additional tools to change the image into something which is either more or less than a traditional photograph and to fix errors in lighting, depth of field, focus and color correction. Lastly, students will explore the newer 3D platform and the new ability to take Photoshop into the world of motion photography, in other words – video.

**PRINT PUBLICATIONS (TEE1101/1102)** **0.5 credits, S1 and/or S2** **9-12**
**Description**: See full course description under Tech Ed & Engineering.

**TEXTILES (ART2052)** **0.5 credits, S2, $10 Student Fee** **10-12**
**Prerequisite | 3D Art Foundations**
**Description**: An in-depth study of techniques, materials and tools associated with fabrics and fibers. Units of Study include: Tie Dye, Marbling, Batik, Book Binding, Beading, Quilting, Felting, Macramé, and Field Trips.

# Business & Information Technology and Marketing




**COURSES OFFERED IN 2026-27***
*Sports & Entertainment Marketing

**COURSES OFFERED IN 2027-28****
**New Product Development & Market Research

**ACCOUNTING (DC) (BUS2011-2012) 1.0 credits, S1 and S2 10-12**
**Description**: This course is designed to introduce high school students to the field of accounting. Student will work through the financial accounting cycle and payroll for a sole proprietorship. Career opportunities will be explored to see what the future holds for the accounting profession. This class provides a combination of manual accounting systems and computerized activities using Microsoft Excel. Accounting is a dual-credit option with Madison College.

**ADVANCED ACCOUNTING (BUS3011-3012) 1.0 credits, S1 and S2 11-12**
**Prerequisite | Accounting I**
**Description**: Every business degree will require at least one accounting course, and college-level accounting can be very challenging for those who didn't take it in high school. This one-year advanced course is for students interested in acquiring a more in-depth knowledge of accounting and to help better prepare students for the world of work or college-level business courses.

**CAREER WORKSHOP (BUS2041/51/62/72) 0.25 credits, Q1/Q2/Q3/Q4 10**
**Description**: Career Workshop is a course that will help students identify and refine the interpersonal skills and values that lead to success in the world of work. In this required class, students will create a resume and cover letter. They will fill out a job application and complete a mock interview. Students will explore career clusters and career options to start the development of an academic and career plan. Career Workshop is required for graduation, and this quarter long course is paired with Health & Wellness in a semester for all sophomores.

# Business & Information Technology and Marketing

**CONC OF ENTREPRENEURSHIP (DC) (BUS3031) 0.5 credits, S1** **11-12**

**Description**: This project-based course introduces students to the foundations of entrepreneurship while offering the opportunity to earn college credit through the University of Iowa. Designed for creative thinkers, problem solvers, and future leaders, this class immerses students in the entrepreneurial process. Topics include the business model canvas, marketing, financial modeling, design thinking, and the entrepreneurial mindset. Through hands-on projects and activities, students learn how to identify opportunities, design solutions, and pitch a viable business concept. Whether students dream of starting a business, pursuing a business major, or simply want to build creative confidence and workplace-ready skills, this course is the best place to start exploring opportunities!

**GLOBAL BUSINESS (BUS3051)** **0.5 credits, S1** **11-12**

**Description**: We live in an ever-expanding global marketplace, and many Waunakee students will eventually have careers in that marketplace. This course will provide students with an understanding of how and why businesses choose to expand their operations into other countries. Students will be exposed to the unique challenges facing corporations doing business internationally and to the potential opportunities and markets that are lost to corporations that choose not to do business in the global marketplace. Project based learning, global business simulations, professional presentations, and complex case studies will be incorporated into the curriculum.

**MANAGEMENT & ETHICS (BUS3042)** **0.5 credits, S2** **11-12**

**Description**: Interested in a career in business or management? This course is designed to prepare students for a post-secondary education in business or a career in any type of management field. Management and Ethics focuses on Project Based Learning, Professional Presentations, and Complex Case Studies. Topics included in this course include the fundamentals of management, historical theories and theorists, global business, professional etiquette and ethics. Students will be collaborative learners by using Schoology and other online learning tools to learn about the changing world of business leadership and management. Curriculum in this course helps prepare students for successful completion of the Principles of Management CLEP exam offered at many colleges and universities to earn college credits.

**MARKETING 1 (DC) (BUS2021-2022)** **1.0 credit, S1 and S2** **10-12**

**Description**: This foundational course introduces students to the marketing process and how it operates in today's dynamic organizations. The focus is on value-based marketing and the marketing mix (product, price, place, and promotion) on a broad scale. Content discussed includes: customer service, ethics, market segmentation, target marketing strategies, positioning, consumer behavior, product development, and branding. This foundational course provides a comprehensive overview of the exciting world of marketing. A requirement of the course is lab-based learning which includes working at the school store (Warrior Corner). Junior and senior students enrolled in Marketing 1 will also be eligible to enroll concurrently in the Marketing Youth Apprenticeship. Students are strongly encouraged to participate in DECA, the co-curricular organization. Marketing 1 offers dual-credit options with Madison College (September online registration).

**MS OFFICE BASICS (BUS1031/1032)** **0.5 credits, S1 or S2** **9-12**

**Description**: MS Office Basics emphasizes professional, business document formatting that will prepare the student for using the Office Suite in high school, college and at work. The focus of this course is to build and format documents using programs like Word and PowerPoint. This course combined with MS Office Advanced provides the opportunity for students to earn one dual credit with Madison College. Units of Study include: Memos, Emails, Letters, Reports, Tables, Electronic Presentations, Proofreading & Editing, Numbers & Symbols as well as reinforcing keyboarding skills.

# Business & Information Technology and Marketing

**MS OFFICE FOR BUSINESS APPS (DC) (BUS1052)** **0.5 credits, S2** **9-12**
**Prerequisite | MS Office Basics**
**Description**: The focus of Microsoft Office for Business Applications is to challenge students through the mastery of Microsoft Office Suite Applications including: MS Word, MS PowerPoint, MS Excel and MS Outlook. Students will learn problem solving and other advanced administrative skills through hands-on projects and the use of a Microsoft textbook that encourages and develops independent thinking, technical reading skills and strong time management. This course follows the same structure as the 3 credit Madison College Microsoft Office for Business Applications course. At the completion of this course, students have the opportunity to leave with college credit through Madison College and three Microsoft Office certifications in Word, PowerPoint and Excel.

**NEW PRODUCT DEV & MKT RESEARCH (BUS3142)** **0.5 credits, S2 (ALTERNATING YEARS)** **11-12**
**Prerequisite | Marketing 1**
**Description**: Have you ever thought about how a new product makes it to the marketplace or wondered why companies spend so much time and money collecting data about their customers, competitors, and marketplace trends? Discover what market research is and the process of collecting, analyzing, and interpreting information to help a business make informed decisions about its products, services, and strategies to better serve customers. Content discussed includes research process steps, primary vs. secondary data collection techniques, big data, marketing analytics, pricing, and ethics. Students enrolled in this course will also be eligible to enroll concurrently in the Marketing Youth Apprenticeship. Students are also strongly encouraged to participate in DECA, the co-curricular organization.

**PERSONAL FINANCE (BUS1011/1012)** **0.5 credits, S1 or S2** **9-10**
**Description**: *(Formerly Dollars & Sense)* Everyone needs to know basic personal finance skills such as checkbook management, electronic banking and fundamentals of insurance. Students will learn about the wise use of credit and gain insight into different forms of investing and saving. Students will also learn about the Federal Reserve System and services offered by banking institutions. Students will become aware of their financial responsibilities as a consumer and understand how to make wise financial decisions to positively impact their futures. Personal Finance will provide a basic foundation of finance topics. This is a required course for graduation beginning with the Class of 2028.

**SELLING PRINCIPLES (DC) (BUS3131)** **0.5 credits, S1** **11-12**
**Prerequisite | Marketing 1**
**Description**: Introductory course designed to familiarize students with the basic principles, concepts, and theories of business and consumer selling. Special emphasis is given to developing the selling process, which includes prospecting and qualifying, planning and pre-approaching, approaching the customer, the sales presentation/demonstration, handling objections, closing the sale, and post-sale service/follow-up. This course will also provide the learner with an opportunity to explore careers, opportunities, and the benefits of personal selling. Specific emphasis on relationship strategies, legal and ethical considerations, and cultural differences necessary to improve trust. Students enrolled in this course will also be eligible to enroll concurrently in the Marketing Youth Apprenticeship. Students are also strongly encouraged to participate in DECA, the co-curricular organization. Selling Principles offers dual-credit options with Madison College (September online registration).

# Business & Information Technology and Marketing

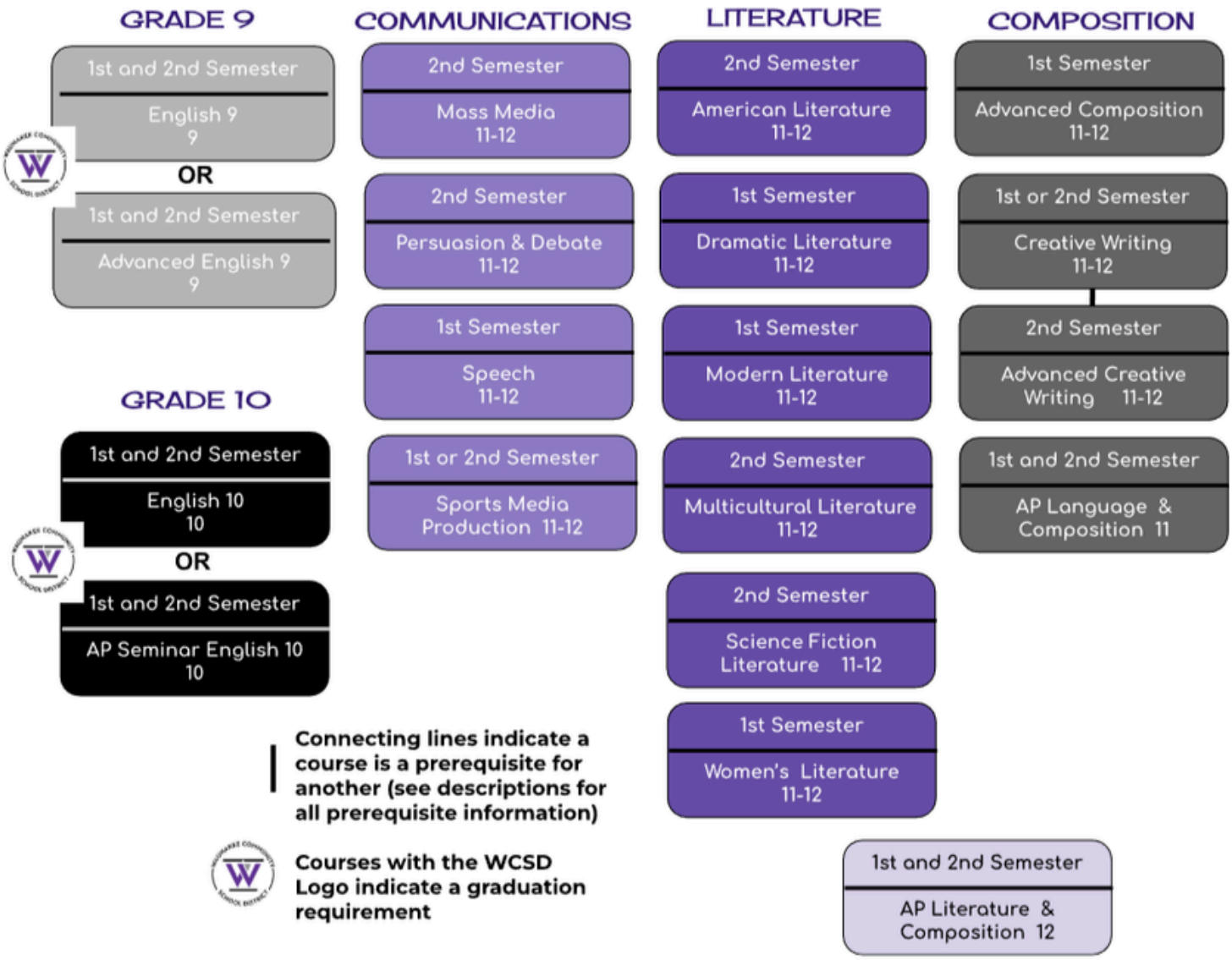
**SOCIAL MEDIA MARKETING (DC) (BUS3121/3122)** **0.5 credits, S1 or S2** **11-12**
**Prerequisite | Marketing 1**
**Description**: This course provides an overview of the impact of social media technologies on marketing strategies. Current social media tools/platforms and their business applications, strategy insights, creative development, and ethics will be covered, along with the development of a social media marketing plan. Students will also evaluate marketing strategies from a global perspective. Specific emphasis on the benefits of social media marketing, creating a social media campaign, influencer marketing, and measurement tools (ROI, impressions, reach, and conversion rate). Students enrolled in this course will also be eligible to enroll concurrently in the Marketing Youth Apprenticeship. Students are also strongly encouraged to participate in DECA, the co-curricular organization. Social Media Marketing offers dual-credit options with Madison College (September/January online registration).

**SPORTS & ENTERTAINMENT MARKETING (BUS3112)** **0.5 credits, S2 (ALTERNATING YEARS)** **11-12**
**Prerequisite | Marketing 1**
**Description**: Turn on the television and you're likely to see a sporting event, an athlete trying to sell a product or brand, or the Grammy Awards. Sports & entertainment marketing is a multibillion-dollar industry. The sports industry has brought together sports and corporate America to create a dynamic partnership. Units of study include: evolution of sports marketing, marketing environment, sports entertainment consumption, segmenting audiences for sports, experiential marketing, sponsorship-linked marketing & preparing future sports marketers. This course specializes in one career area of marketing. Virtual Business Simulation through Knowledge Matters will be used.

**VIDEO EDITING & DIGITAL DESIGN (BUS3091)** **0.5 credits, S1** **11-12**
**Description**: Basic video editing for multimedia, video, and web capabilities are introduced in this course. Emphasis is placed on digital editing techniques, effects, audio, graphics, and titling. Techniques of video production including lighting, sound, videography, and post-production editing using Adobe Premiere Pro software and WeVideo are covered. Students explore career possibilities in this field and function as producers, directors, talent, and crew for multiple projects. This is a great class to prepare you for publishing video projects throughout high school. Students will be given the opportunity to receive certification in Adobe Premiere Pro at the end of the semester, by taking the certification test.

**WEB DESIGN (BUS2092)** **0.5 credits, S2** **10-12**
**Description**: Web Design begins with an introduction to the basics of coding using HTML (hypertext markup language). This foundation provides students with the basic understanding of how web pages are created. It will enable students to solve coding issues when using Dreamweaver and styles. Multiple web pages are developed throughout this project-based learning environment.

# Communication Arts




**ADVANCED COMPOSITION (ENG3121)** **0.5 credits, S1** **11-12**

**Description**: Advanced Composition is designed to improve all students' writing skills. Students should expect to write various types of essays and to revise and rewrite frequently and thoroughly. Types of writing include reflective, descriptive, extended definition, and autoethnography. Language skills taught include precise word choice, fluency, parallel structure, development of voice, use of sensory details, and figurative language. Points of emphasis include the writing process, revision strategies, organizational strategies, portfolio reflection, peer revision, and writing conferences.

**ADVANCED CREATIVE WRITING (ENG3112)** **0.5 credits, S2** **11-12**

**Prerequisite | Creative Writing**

**Description**: Advanced Creative Writing will offer a forum for students to explore writing skills introduced in Creative Writing. Students will create a portfolio of writing that explores science fiction, historical fiction, literary fiction, and humor/satire. Focus will be on the writing process, revision skills, and literary techniques to improve writing. Much of the class is based on workshop-style instruction. Units of Study include: Science Fiction, Historical Fiction, Literary Fiction, Suspense or Fantasy Fiction, and Humor/Satire.

# Communication Arts

**ADVANCED ENGLISH 9 (ENG1021-1022) 1.0 credit, S1 and S2 9**

**Description**: Advanced English 9 is designed to provide students who have a passion for literature and language with a solid foundation of analytical and communication skills. Students will develop their ability to read and analyze classical literature in order to determine the thematic purpose of the text. They will then develop and draw their own critical reactions regarding this literature. In addition, this class will improve students' abilities to conduct research and represent their thoughts in writing and speech. It also focuses on vocabulary development and the use of standard grammar conventions. Major texts for the course include: The Crucible by Arthur Miller, Uncle Tom's Cabin by Harriet Beecher Stowe, A Tale of Two Cities by Charles Dickens, and To Kill a Mockingbird by Harper Lee. Students taking Advanced English 9 are expected to maintain a more rigorous reading and writing schedule than students in English 9. They should also be prepared to actively participate in class discussion.

**AP ENGLISH LANG & COMP (ENG3051-3052) 1.0 credit, S1 and S2 11**

**Description**: AP English Language and Composition is offered to juniors (and seniors with consent of instructor) who have completed English 10 or Advanced English 10 or AP Seminar English 10. This college-level class asks students to make and analyze arguments related to a number of contemporary and historical issues, focusing on the ways authors make compositional choices related to purpose and audience. Students must demonstrate their abilities to read non-fiction texts analytically through annotation, written responses to prompts, and small and large-group discussions. Students will read a minimum of two non-fiction books, two literary novels, and numerous essays and speeches. Student essays will incorporate argument, synthesis, and rhetorical analysis. Students will also complete projects, including a podcast. Since this is a college-level class, students should possess a strong work ethic, and interest in developing critical thinking, reading, writing, and speaking skills. Link: College Board Information

**AP ENGLISH LIT & COMP (ENG4021-4022) 1.0 credit, S1 and S2 12**

**Description**: AP Literature and Composition is designed for those students who have an aptitude for and a special interest in reading, discussing, and writing about challenging literature. The class curriculum emphasizes works of recognized literary merit, worthy of study because of their richness of thought and language. We will be reading and analyzing novels, plays, short prose, and poetry from various countries, literary periods, and perspectives. Students will be reading two independent novels or plays of literary merit over the course of the year. At the conclusion of the course, students may choose to take an advanced placement exam to earn college credit. Since this is a college-level class, students should possess a strong work ethic, willingness to read, and interest in developing critical thinking, reading, writing, and speaking skills. Link: College Board Information

**AP SEMINAR ENGLISH 10 (ENG2031-2032) 1.0 credit, S1 and S2 10**

**Description**: AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Essays submitted externally to the College Board are not eligible for revisions or individualized feedback. These essays, group work, and graded presentations contribute to the final AP score in the course. This course provides English credit at the high school; passing the AP exam typically earns elective credit(s) at the collegiate level. **All enrolled students are required to complete the AP performance tasks and final exam (student fee will be included in IC).**

*This course replaces Advanced English 10. Link: College Board Information*

# Communication Arts

**AMERICAN LITERATURE (ENG3022)** **0.5 credits, S2** **11-12**

**Description**: This course is meant to explore the history, culture, and values of America as portrayed by literature. To accomplish this, students will read collections of short stories, novels, and poetry from various historic and literary time periods and discuss how these works reflect our society. Emphasis will be placed on the literary movements and themes common in each work. Students taking this class should expect to display their knowledge through daily discussion, projects, journals, and analytical essay writing. Areas of Study: Puritanism, Romanticism, Realism Transcendentalism, Modernism and Post-Modernism.

**CREATIVE WRITING (ENG3101/3102)** **0.5 credits, S1 or S2** **11-12**

**Description**: Advanced Composition is strongly encouraged before enrollment in Creative Writing. Students will learn how to write poetry, stories, and other forms within a writing workshop environment that emphasizes student growth and reflection, peer review, and student-teacher conferences. Sophomores may enroll with consent of Instructor.

**DRAMATIC LITERATURE (ENG3061)** **0.5 credits, S1** **11-12**

**Description**: Students will grow in their knowledge and understanding of theatre. Emphasis will be placed on analyzing the plays and characters of many different time periods in an effort to understand the art form and its place in society and history. Students will learn about all aspects of the theatre and its literature. Students will be expected to complete in depth studies of plays and characters through oral and written work. Units of Study include: 20th Century Theatre, Greek and Roman Theatre, Terminology, Medieval Theatre, 9th Century Theatre, Asian Theatre Introductory, Italian and Spanish Theatre, and Elizabethan Theatre.

**ENGLISH 9 (ENG1011-1012)** **1.0 credit, S1 and S2** **9**

**Description**: English 9 is designed to provide students with a solid foundation of analytical and communication skills. To improve students' abilities to communicate, critical reading, writing, thinking, and discussion skills are stressed. Other integral parts of the course include developing vocabulary, grammar, and research skills. Writing Skills: The writing process will be incorporated throughout the year. Writings include a research paper and literary analysis essays. Language: Language skills will be reviewed throughout the year. Emphasis will be on understanding and applying grammatical usage rules in their writing. Literature: Students will analyze literary devices and themes in a variety of short stories. The Odyssey, Twelfth Night, and a dystopian unit featuring reading a choice of a dystopian novel.

**ENGLISH 10 (ENG2011-2012)** **1.0 credit, S1 and S2** **10**

**Description**: English 10 builds on the foundation established in English 9. In addition to a review of grammar & usage, students will study effective argument and narrative writing, rhetorical analysis, vocabulary, and literature. More specifically, students will: (1) learn to integrate evidence into arguments, write strong claims, culminating in a research project; (2) utilize narrative techniques like imagery, dialogue, and pacing to tell effective stories; (3) prepare for and participate in a variety of collaborative conversations about real-world issues and literature; (4) learn to combine independent clauses and utilize other fluency-enhancing grammar strategies effectively; and (5) read and discuss a variety of texts such as dramas, poems, fiction, and a variety of non-fiction sources about real-world issues.

# Communication Arts

**MASS MEDIA (ENG3222)** **0.5 credits, S2** **11-12**

**Description**: Students will examine mass communications such as television, film, popular music, radio, advertising, and social media. Emphasis will be placed on standards of quality of these forms and how they influence attitudes and values. Students will be required to do several media-related projects, which will demonstrate their understanding of how different media work and how they affect the audience and society's values. This course will lead to improved critical thinking as a consumer for each medium. Units of Study include: Communication Process; Advertising- Marketing & the Influence of Social Media, The
Aural Media (radio & music), and The Visual Media (television and film) with emphasis.

**MODERN LITERATURE (ENG3011)** **0.5 credits, S1** **11-12**

**Description**: Modern Literature students develop their ability to analyze contemporary texts through a range of lenses. Students will express their ideas through writing, discussion, presentation, and reflection. All texts have been published within the lifetime of the student and include Station Eleven by Emily St. John Mandel and three books chosen by students from a teacher-curated list. Literary lenses: Psychological, Gender, Marxist, Archetypal, Deconstruction, and Historical. Average reading assignment is about 45 pages between classes.

**MULTICULTURAL LITERATURE (ENG3072)** **0.5 credits, S2** **11-12**

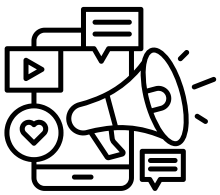
**Description**: This course focuses on world literature by and about people of diverse ethnic backgrounds, specifically those who have been underrepresented in traditional curriculum. Students will explore themes of linguistic and cultural diversity by comparing, contrasting, analyzing, and critiquing writing styles and universal themes. Students will observe, listen critically, and respond to written and oral communication. A critical aspect of this course is that the material and units not only broaden students' understanding of a variety of cultures, but that it focuses on both the struggle and the successes of these underrepresented groups. The focus will be to create awareness and understanding of both triumphs and tribulations.

**PERSUASION & DEBATE (ENG3212)** **0.5 credits, S2** **11-12**

**Description**: Speech is recommended, but not required. Persuasion & Debate is a class for students who wish to sharpen their communication skills. Students will be called on to research and write persuasive papers, deliver a persuasive speech, to participate in formal group discussions, to participate in formal debates, and to learn to practice parliamentary procedure. Students will also prepare written analysis of current and historic debates, discussions and speeches to come to a better understanding of how to use the written word and oral communication skills to become a better overall communicator. Units of Study include: Persuasion, Debate, Group Discussion, and Parliamentary Procedure.

**SCIENCE FICTION LITERATURE (ENG3032)** **0.5 credits, S2** **11-12**

**Description**: Writers of science fiction often use the mystery of "the future" to speculate on the course of humanity. They use technology, alien cultures, and far away landscapes to symbolize current events, and modern day problems. At the same time, they ask us to reflect on how we can change the present to make the best of our future. This class will study a variety of texts including short stories, novels, and films that explore how different science fiction authors question the challenges facing human society, our evolving sense of self-identity, and our ability to successfully relate to that which is "alien". Students will be expected to read regularly both assigned texts and a free choice novel. They are also expected to engage in classroom discussion, debate, analytical writing, and group presentations.



# Communication Arts

**SPEECH (ENG3201)** **0.5 credits, S1** **11-12**

**Description**: Speech is a performance-oriented class in which students receive instruction in good speaking and listening skills, as well as the communication process and how to use communication skills in everyday life. Students give 6-8 major speeches in addition to several impromptu activities/speeches. Students will be expected to practice good listening skills as well as evaluate the speeches they hear. Units of Study include: Communication Process; Delivery Skills and Nonverbal Communication, Imaginative Communication; Effective Communication; Informative Communication. Types of Speeches: Introductory, Informative, Oral Interpretation, Demonstration, Impromptu, Entertainment, Eulogy/Recognition.

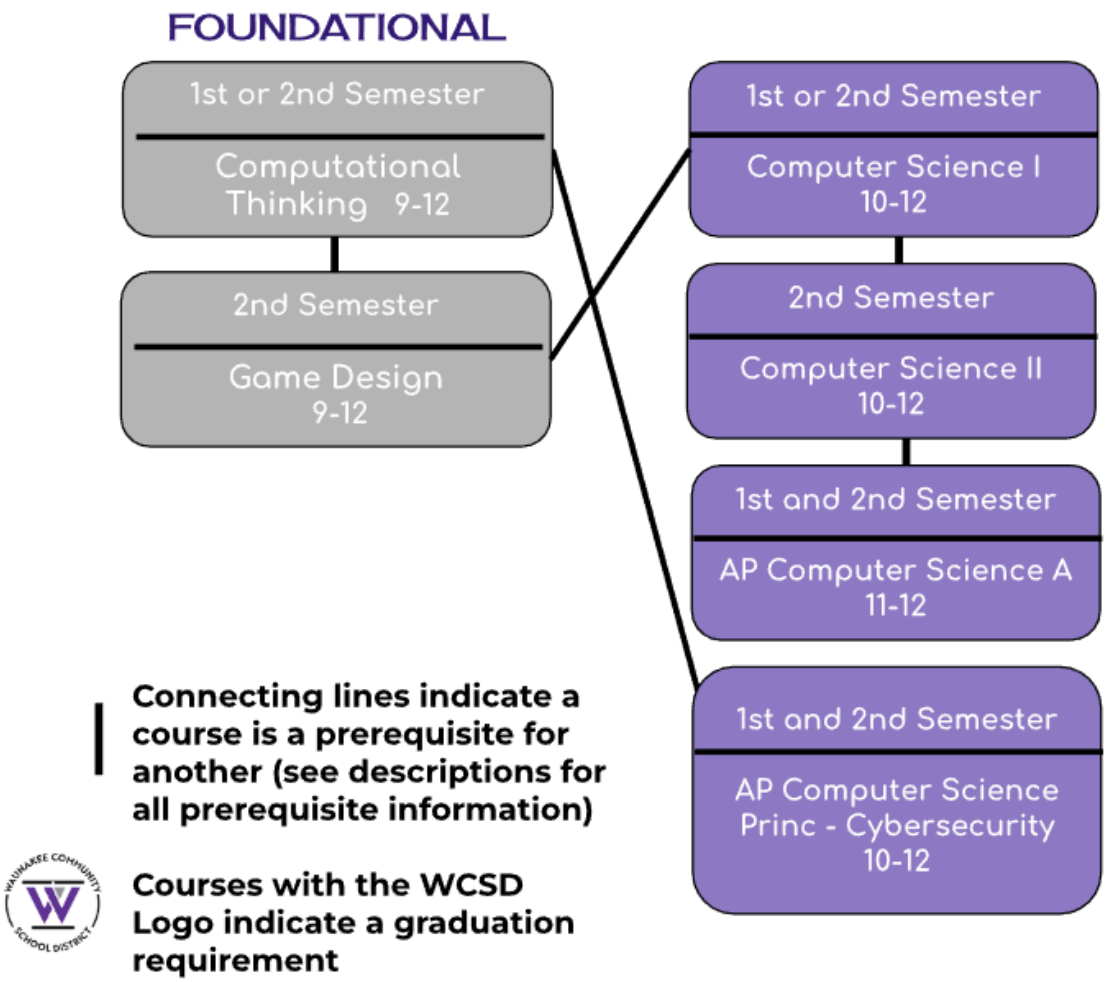
**SPORTS MEDIA PRODUCTION (ENG3231/3232) 0.5 credits, S1 and/or S2** **11-12**

**Description**: *(Formerly Digital Communications)* This course gives students hands-on experience in the fast-moving world of sports media. Students create digital content such as promotional graphics, highlight videos, team visuals, and other branded media used in athletic programs and online platforms. Using tools like Photoshop, Premiere Pro, After Effects, Canva, and Daktronics, students learn techniques used by professional and collegiate organizations to produce eye-catching, high-energy content. The course emphasizes creative storytelling, motion design, and visual branding to engage fans and capture the excitement of sports. Students will also analyze professional organizations in the NFL, NBA, MLB, and NCAA while gaining insights from guest speakers in sports design, video production, and digital marketing. This course prepares students for future opportunities in sports, media, and digital content creation while showcasing their design, editing, and creative direction skills. Students may repeat this course once for a maximum of 1.0 English credits. *Note, certain universities may view this course as an elective credit. (Name changed from Digital Communications to Sports Media Production in 2026-2027)

**WOMEN'S LITERATURE (ENG3041)** **0.5 credits, S1** **11-12**

**Description**: In Women's Literature, students read contemporary texts that deal with themes and topics that are reflected in our current society. Over the course of the semester, students read three novels and examine contemporary American culture in order to answer this question: How can we use literature to convey our understanding and experience of what it means to be a woman - Here, Now, Universally? This course provides a thematic approach to reading works written by and about women, focusing on the following themes: "Gender Stereotypes", "Social and Cultural Transformation" and "Journey Toward Empowerment". It includes representative works from novels, poetry, nonfiction, and literary criticism. Through essays, discussions, presentations, projects and readings, students examine each piece of literature through a variety of literary themes. In doing so, they will connect more deeply with what they read and learn more about themselves and their world.

# Computer Science




**AP COMPUTER SCI A (CSC3011-3012) 1.0 credit, S1 and S2, Equivalency Math Credit (EM) 11-12**
**Prerequisite | Computer Science II**
**Description: Math credit is awarded for successful completion of this course as it is recognized as a math equivalency by the Wisconsin Department of Public Instruction as a third math credit. Please note that a maximum of 1.0 math credit may be earned from all (EM) courses completed**. Students will be able to take the Computer Science A Exam in the spring. This course emphasizes object-oriented programming with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. This course is meant to be the equivalent of a first-semester college level course in Computer Science and most colleges will be expected to grant advanced placement credit. Units of Study include: Program design, Object-oriented design, Implementation techniques, Programming constructs, Java library classes, Testing/Debugging, Data Structures, Standard Algorithms. Link: College Board Information

**AP COMP SCI PRINC-CYBERSECURITY (CSC2041-2042) 1.0 credit, S1 and S2 10-12**
**Prerequisite | Computational Thinking**
**Description**: This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on Cybersecurity, students will learn to program using JavaScript to create applications and solve real-world problems. The course begins an introduction to algorithmic thinking before moving into text-based JavaScript, web design, and encryption. Major topics include the structure of the Internet, digital information and compression, data analysis, and the ethics of computing. Students will also complete the AP "Create" Performance Task, designing and building a program of their own choice. Link: College Board Information

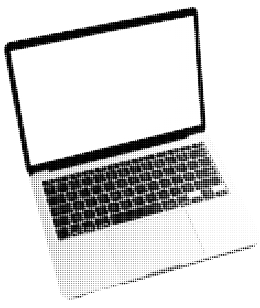
# Computer Science

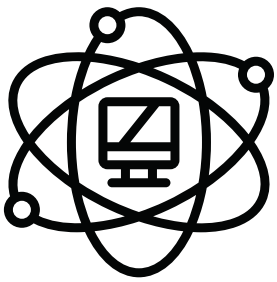
**COMPUTATIONAL THINKING (CSC1022)** **0.5 credits, S1 or S2, Equivalency Math Credit (EM)** **9-12**
**Description**: This class studies games and game design, and allows students to create their own games. Students study game theory, problem-solving techniques, and best design practices. Topics also include games in the modern world, and the emerging trend toward games in social networking, marketing, economics, and system modeling. Units of Study include: Game design, games and society, game theory, systems analysis, emergent behavior, scripting, artificial intelligence, and logic.

**COMPUTER SCIENCE I (CSC2011/2012)** **0.5 credits, S1 or S2** **10-12**
**Prerequisites | Game Design and Algebra I**
**Description**: This course introduces students to the fundamentals of computer programming using the Java language. The course introduces concepts like control flow, looping, conditionals, and top-down design. Students will learn foundational Java, including writing and debugging programs that use variables, arithmetic expressions, user input, and conditional logic.

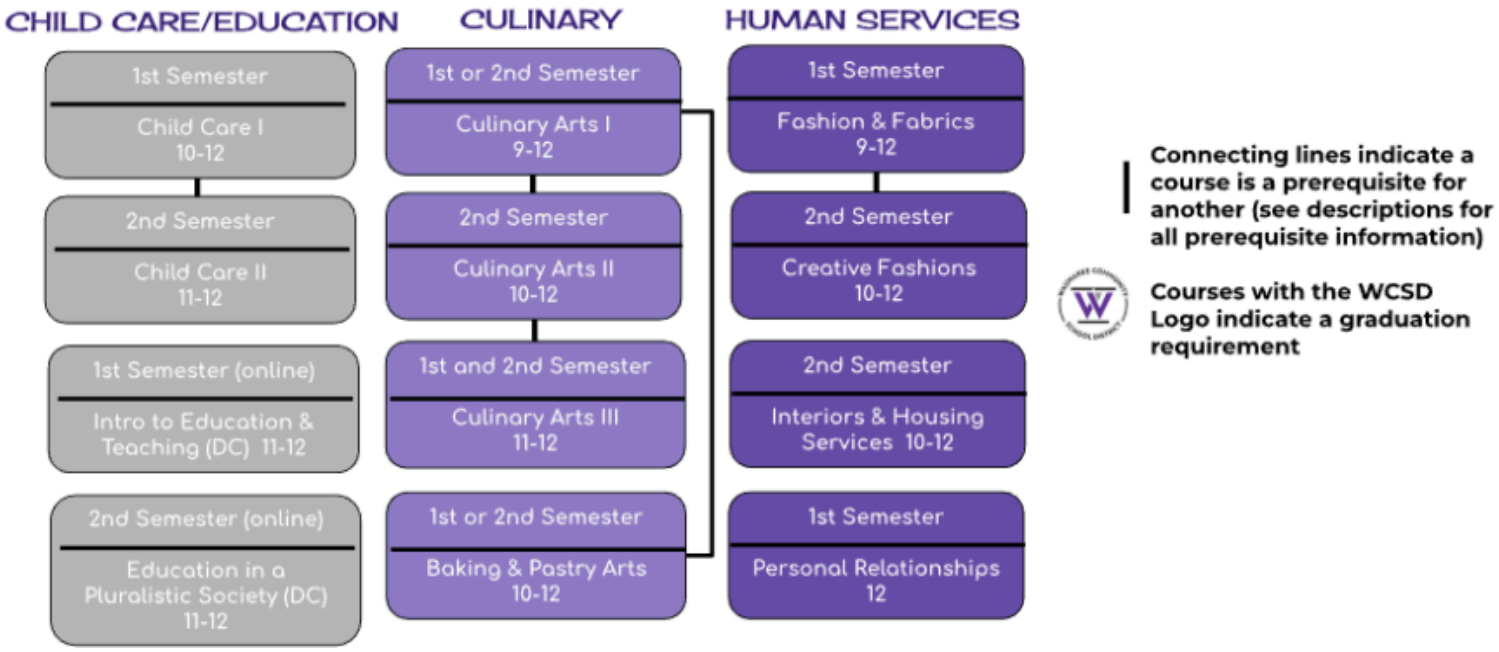
**COMPUTER SCIENCE II (CSC2022)** **0.5 credits, S2** **10-12**
**Prerequisite | Computer Science I**
**Description**: This course is the sequel to Computer Science I and is focused on building sophisticated, real-world applications using object-oriented design. Students will first take a deep dive into classes and data manipulation. Students will learn to design and build their own classes, understand inheritance and polymorphism, and implement interfaces. Students will also master common data structures, including Arrays, ArrayLists, 2D arrays, and HashMaps. Supplemental topics such as recursion and sorting algorithms will also be introduced. The course culminates in a capstone final project where students will design and build a complex program from scratch.

**GAME DESIGN (CSC1022)** **0.5 credits, S2** **9-12**
**Prerequisites | Computational Thinking**
**Description**: This class studies games and game design, and allows students to create their own games. Students study game theory, problem-solving techniques, and best design practices. Topics also include games in the modern world, and the emerging trend toward games in social networking, marketing, economics, and system modeling. Units of Study include: Game design, games and society, game theory, systems analysis, emergent behavior, scripting, artificial intelligence, and logic.





# Family & Consumer Science




**BAKING & PASTRY ARTS (FCS2111/2112)** **0.5 credits, S1 or S2, $40 Student Fee** **10-12**
**Prerequisites | Culinary Arts I**
**Description**: Students with a strong interest in baking have the opportunity to explore the culinary field of baking and pastry-making in greater depth. This semester baking and pastry course will expand upon the baking unit featured in Culinary Arts I. Students would create more complex recipes as well as access their artistic abilities. The students will produce breads, specialty cookies, pastries, and decorated cakes in the culinary classroom. Whether students choose to pursue a culinary career or simply enjoy baking; this course gives students the opportunity to apply their knowledge and build their overall confidence in the kitchen.

**CHILD CARE I (FCS2101)** **0.5 credits, S1** **10-12**
**Description**: Students will study child development, parenting, and its responsibilities. Units of Study: Study of infants, toddlers, preschool and school-aged children, theories of child development, parenting skills and responsibilities, prenatal development, pregnancy, labor and birth. Students will have the opportunity to work with the baby simulators and participate in the student run preschool.

**CHILD CARE II (FCS3102)** **0.5 credits, S2** **11-12**
**Prerequisites | Child Care I**
**Description**: This course is designed for the student who is interested in pursuing a career in a licensed daycare center or the field of education. Students will be eligible to receive state certification as an Assistant Child Care Teacher (ACCT) and earn three credits toward advanced standing at Madison College. Units of Study include: history of child care, licensing rules & regulations, equipping a child care center, child care center environment, teaching techniques, sudden infant death syndrome (SIDS), shaken baby syndrome (SBS) training. Students will have the opportunity to observe and work with children at local child care centers.

# Family & Consumer Science

**CREATIVE FASHIONS (FCS3102)** **0.5 credits, S2** **11-12**
**Prerequisites | Fashion & Fabrics**
**Description**: Emphasis is on creativeness in sewing, advanced sewing techniques, and clothing construction. Units of Study include: fashion design, career exploration, batiking, tie-dying, upcycling clothing, use of the serger, embroidery machine, knitting, crocheting and more!

**CULINARY ARTS I (FCS1011/1012)** **0.5 credits, S1 or S2, $40 Student Fee** **9-12**
**Description**: Students will practice using a variety of cooking methods and equipment and will have the opportunity to participate in cooking labs. Units of Study include: nutrition and diet analysis, safety and sanitation, recipe reading and interpretation, fruits and vegetables, quick breads, dairy, grains, meats and other proteins, meal preparation and presentation.

**CULINARY ARTS II (FCS2012)** **0.5 credits, S2, $40 Student Fee** **10-12**
**Prerequisites | Culinary Arts I**
**Description**: Culinary II students will continue to practice and expand their knowledge of cooking methods and techniques as well as practice baking recipes. Students will work collaboratively with their kitchen teams as they create more complicated recipes and meals. In Culinary II, our students will: hone their knife skills and precision knife cuts, increase their understanding of food safety and sanitation and embark on a global food unit. Our class has several catering opportunities embedded in the coursework. Students help prepare food for several school events and they can take part in set-up, serving and clean up.

**CULINARY ARTS III (FCS3011-3012)** **1.0 credit, S1 and S2, $40 Student Fee** **11-12**
**Prerequisites | Culinary Arts II**
**Description**: Culinary III provides students with a full year of labs and coursework to expand their culinary knowledge of: cooking and baking methods, precision knife skills, recipe reading, menu and timeline planning. In addition, students have the opportunity to earn a ServSafe Food Handler Certificate and a ServSafe Manager's Certificate through the National Restaurant Association. Students can also apply for a culinary scholarship through the Wisconsin Restaurant Association and take part in the Wisconsin ProStart Culinary Competition or or the ProStart Management Competition.

**EDUC IN A PLURALISTIC SOC (DC) (STC3502-VL)** **0.75 credits, S2** **11-12**
**Description**: Students will engage and explore diverse educations of people in the United States, and beyond, through the lenses of privilege, oppression, and opportunity. With self-analysis, reflection, historical investigation, contemporary school programming, schools and society, and communication skill building, students learn how to be culturally responsive to the contexts of communities. This course is offered as Dual Credit with Madison College (3 credits) and is recommended for any student interested in pursuing a future career pathway in an educational setting. This course is offered as an online (asynchronous) option, so will not take up a block in a student schedule.

# Family & Consumer Science

**FASHION & FABRICS (FCS1021)** **0.5 credits, S1** **9-12**

**Description**: In this course, students will learn about the fashion industry, fashion designers, the history of fashion, and careers within the fashion industry as well as an introduction to basic sewing skills including hand and machine stitching, serging, selection of fabrics, and use of patterns. Sewing machines are used to complete individual clothing projects. Students must purchase their own materials and supplies.

**INTERIOR & HOUSING SERV (FCS2032)** **0.5 credits, S2** **10-12**

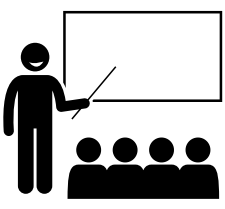
**Description**: This course explores the psychological, physiological and sociological needs of individuals in relation to housing as well as ways they can meet those needs by enhancing their surroundings. The information learned in this class will serve as an introduction to a career in interior design. Units of Study include: selecting and arranging furniture; recognizing factors that influence housing, principles of design and application, recognizing basic architectural and furniture styles, practicing consumer rights and responsibilities related to housing, hands-on interior design projects, and career exploration.

**INTRO TO EDUC & TEACHING (DC) (STC3501-VL)** **0.75 credits, S1** **11-12**

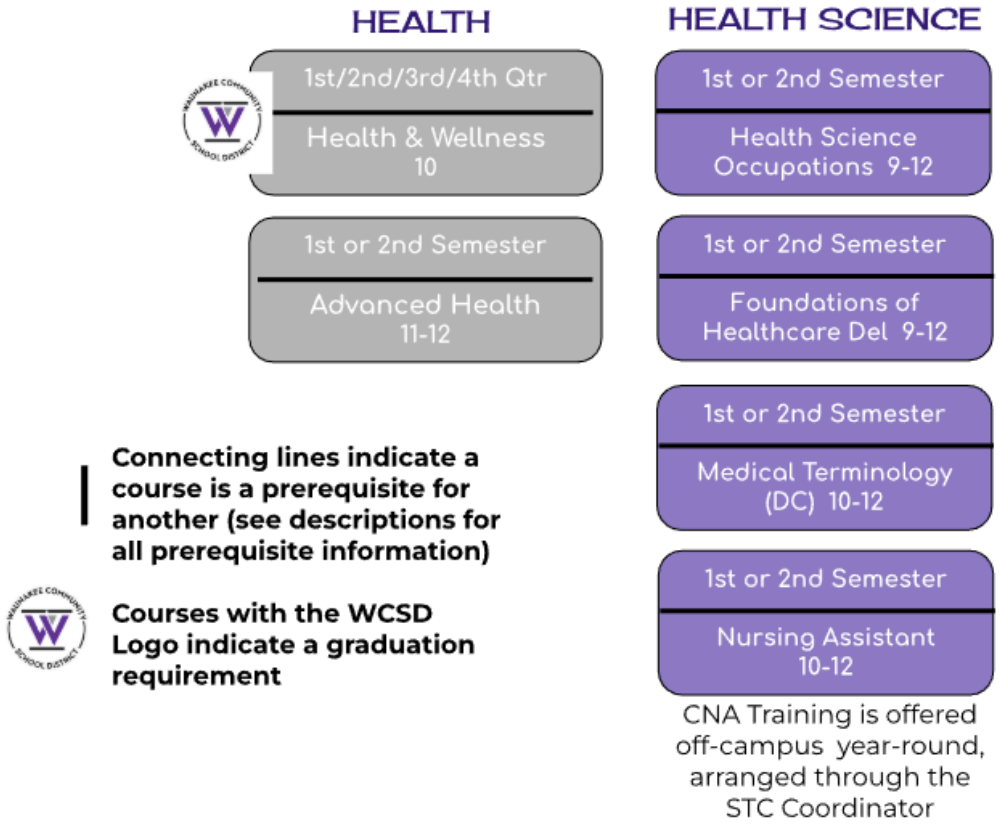
**Description**: Students are introduced to education and teaching through practical experience in school settings, group discussions, and individual reflection. Each student will complete 50 hours of K-12 classroom observation. We will explore the relationships among education, curriculum, and instruction across contexts of home, community and school; connecting school practices with philosophical perspectives of education. This course is offered as Dual Credit with Madison College (3 credits) and is recommended for any student interested in pursuing a future career pathway in an educational setting. This course is offered as an online (asynchronous) option, so will not take up a block in a student schedule; however, at least one school approved release is needed in order to complete required observation hours.

**PERSONAL RELATIONSHIPS (FCS4201)** **0.5 credits, S1** **12**

**Description**: Personal Relationships is designed on the premise that guided preparation for relationships and marriage is necessary for individuals living in our complex, fast-changing society. This course will be most helpful to the mature student who is interested in preparing for their role as a responsible adult, marriage partner, and parent. Units of Study include: Friends and pressure situations; Breaking up and dating abuse; Criteria for a healthy marriage; Values & goals; Attractions & infatuations; Communication skills; Principles of smart relationships; Teen pregnancy; Love and intimacy; Sexually transmitted diseases and prevention; Maturity issues; and Acquaintance and date rape.



# Health & Health Science Education




**ADVANCED HEALTH (HLT3031/3032)** **0.5 credits, S1 or S2** **11-12**

**Description**: In this semester long course students will examine the seven dimensions of health and wellness. An emphasis is placed on the factors that influence health and wellness, particularly individual behaviors. Students will participate in self-assessments that provide information about their health and wellness behaviors and their overall health status. In addition, students will learn strategies that improve lifetime health and wellness.

**FOUND OF HEALTHCARE DELIV (HLT1021/1022)** **0.5 credits, S1 or S2** **9-12**

**Description**: Preparing future health care professionals with the knowledge and skills necessary to provide quality, patient-centered, safe, efficient, effective and equitable care. This course offers a foundation for all students wishing to enter any health care profession. We will explore legal and ethical issues, build cultural competence and examine cultural barriers. Students will develop skills in patient assessment and demonstrate effective communication of medical information. We will explore the human body, wellness practices and leading causes of death.

**HEALTH & WELLNESS (HLT2041/2051/2062/2072)** **0.25 credits, Q1/Q2/Q3/Q4** **10**

**Description**: The health units that will be covered during the quarter long class will be: In this class students will learn how to incorporate health and wellness concepts, skills, attitudes, and behaviors necessary to live productive and healthy lives. A main goal of this interactive course is to help students develop a desire to practice sound principles of physical, emotional, and social health. This is done through class discussions, class presentations, and small group activities. Units covered in this student-driven course include the following: accessing information, goal setting, mental health (suicide prevention), bullying, alcohol and other drug addiction, CPR, and human and growth and development. Health & Wellness is required for graduation, and this quarter long course is paired with Career Workshop in a semester for all sophomores.

# Health & Health Science Education

**HEALTH SCIENCE OCCUPATIONS (HLT1011/1012) 0.5 credits, S1 or S2 9-12**
**Description**: Get a jump start on a career in the rapidly growing health care industry! Explore careers in the following areas: Nursing, Rehabilitation, Laboratory, Dental Health, Mental Health, Radiology, Emergency Medicine, Environmental Health, Medical Office and Health Informatics. Students will demonstrate infection control and safety practices as well as basic technical skills such as obtaining vital signs.

**MEDICAL TERMINOLOGY (DC) (HLT2021/2022) 0.5 credits, S1 or S2 10-12**
**Description**: This course is offered dual credit with Madison College (3 college credits). The focus is on communication using the medical language. Students practice formation, analysis and reconstruction of medical terms. Component parts of medical terms including wood roots, prefixes, and suffixes are emphasized. Both the written and spoken formats for using language will be addressed including word construction, definition, spelling, and pronunciation of medical terms and interpretation of written materials. The course format is face to face and online.

## RELATED OFF-CAMPUS COURSES
## (Check with the School to Career Coordinator for eligibility and availability)

**BIOTECH IN THE WORLD OF MEDICINE (HLT3712) 0.5 credits, S2 10-12**
**Prerequisite | Biology, C or better**
**Description**: Students will explore technologies used in the biomedical field. Students will work on a project focused on creating new tools to radically improve human health, especially in the developing world. Solutions to the Grand Challenges depend on an understanding of molecular biology and the incorporation of biotechnology. Through technical lectures, laboratory work, and presentations from guest speakers, students will have the opportunity to acquire knowledge and scientific skills that focus on the study of DNA, RNA and proteins in a real-world, problem-centered context. Students will research ways to prevent, diagnose, and treat human disease. In addition, students will engage with the professional community of biomedical engineers and explore associated career pathways. **This course is offered at Biopharmaceutical Technology Center in Fitchburg one night per week during the spring semester**. Course tuition is covered by WCSD as long as the class is successfully completed. The course is graded and will impact GPA. Transportation is the responsibility of the student/family.

**NURSING ASSISTANT (YAP3221/3222) 0.75 credits, S1 or S2 (also Summer) 10-12**
**Description**: This class will prepare students for employment as nursing assistants. Students learn communication skills, basic nursing and personal care skills, clients' rights and care of clients with dementias. A supervised clinical experience with direct client care is a major component of the course. Upon completion, the student is eligible to take the certification for the Wisconsin Nurse Aide Registry. Enrollment Requirements: Must meet minimum age requirements, complete a Background Check, Health Screening, and Reading Requirements. Students who are interested in this program should speak with the School to Career Coordinator on available options through Madison College, Quality CNA, or the Healthcare Workforce Training Institute. There is an application process and classes are highly competitive. Course tuition is covered by WCSD as long as the class is successfully completed. Testing fees and required uniform (scrubs) are the responsibility of the student/family. Student with a financial need can work with the STC Coordinator to have those expenses covered. The course is graded and will impact GPA. **This course is offered at various training sites around Waunakee and Dane County.** Transportation is the responsibility of the student/family.

# Mathematics

| Grade | OPTION I | OPTION II | OPTION III | OPTION IV | OPTION V Pathways Placement |
|---|---|---|---|---|---|
| 5 | Math 5 | Math 5 | Math 5 | Math 5 | Accel. Math 6 |
| 6 | Accel. Math 6 | Accel. Math 6 | Accel. Math 6 | Accel. Math 6 | Accel. Math 7 |
| 7 | Accel. Math 7 | Accel. Math 7 | Accel. Math 7 | Accel. Math 7 | Algebra I |
| 8 | Algebra I | Math 8 (Pre-Algebra) | Algebra I | Algebra I | Geometry |
| 9 | Geometry | Algebra I | Geometry AND Adv. Algebra (double-up) | Geometry | Adv. Algebra |
| 10 | Adv. Algebra | Geometry | FST | Adv. Algebra | FST |
| 11 | FST | Adv. Algebra | Pre-Calculus | FST/Pre-Calc | Pre-Calculus |
| 12 | Pre-Calculus and/or AP Statistics or Intro Stats/Discrete Mathematics or Madison College Dual Credit Course (Senior Math Reasoning) | FST or Intro Stats/Discrete Mathematics or Madison College Dual Credit Course (Senior Math Reasoning) | AP Calculus AB and/or AP Statistics | AP Calculus AB and/or AP Statistics | AP Calculus AB and/or AP Statistics |

1. Other options may exist for identified individual students through the District Pathways (G/T) program and/or mathematics department recommendation. The district does provide ways for students to reach Calculus BC.
2. All acceleration prior to high school involves Pathways placement.
3. Math workshops (RTI) will run parallel to each math course at the middle school and high school for students identified as needing additional instruction and support (teacher referral).

***Revised August 21, 2025***

# Mathematics

**ADVANCED ALGEBRA (MAT2011-2012)** **1.0 credit, S1 and S2** **9-12**

**Description**: Advanced Algebra emphasizes facility with algebraic expressions and forms, especially linear, quadratic, powers, roots, and functions based on these concepts. Students will study trigonometric, polynomial, exponential and other special functions both for their abstract properties and as tools for modeling real-world situations. Students will be expected to have a graphing calculator, preferably a Texas Instruments TI-83 Plus or TI-84 model.

**ALGEBRA I (MAT1011-1012)** **1.0 credit, S1 and S2** **9-10**

**Description**: Students will focus on the fundamental concepts of Algebra. Units of study include: Patterns and Sequences, Linear Equations and Inequalities, Describing Data, Describing Functions, Systems of Linear Equations and Inequalities, Exponential Functions, Quadratic Functions and Equations.

**AP CALCULUS AB (MAT4031-4032)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | FST/Pre-Calculus or Pre-Calculus**

**Description**: Students enrolling in this course must have taken Pre-Calculus, have a strong foundation, desire, and purpose to study calculus and have adequate time available to meet the demands of the course. Students are required to have a graphing calculator, preferably a Texas Instruments TI-83 Plus or TI-84 model. At the completion of the course, students may elect to take the Advanced Placement Calculus AB Exam to earn college credit. Units of Study include: Numerical Techniques; Implicit Differentiation; Indefinite Integrals; Exponential Functions; Limits of Functions; Definite Integrals; Related Rates; Continuity; The Fundamental Theorem; Inverse Trigonometric Functions; Definition of a Derivative; Applications of Derivatives; The Mean Value Theorem; Differentiation Rules; Natural & Common Logarithms; Applications of Integration; Curve Sketching; and Optimization. Link: College Board Information

**AP CALCULUS BC (MAT4041-4042)** **1.0 credit, S1 and S2** **12**

**Prerequisite | AP Calculus AB**

**Description**: AP Calculus BC includes calculus topics that are typically encountered beginning in College Calculus I up through the end of College Calculus II. Topics will follow the College Board's AP Calculus BC course description and emphasize differential calculus and integral calculus, including applications involving parametric and polar curves, sequences, and series. Link: College Board Information

**AP STATISTICS (MAT3031-3032)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | FST or Intro to Statistics (Grade 10 with consent of instructor)**

**Description**: Students must have successfully completed FST to enroll in this course. This course may be taken concurrently with Pre-Calculus, AP Calculus, or FST/Pre-Calculus. Strong math students may take AP Stats concurrently with FST (as a sophomore), with instructor consent. Students will need a graphing calculator, preferably a Texas Instruments TI-83 Plus or TI-84 model. At the completion of the course, students may elect to take the Advanced Placement Statistics Exam to earn college credit. Units of Study include: Analysis of univariate data (one variable statistics); Analysis of bivariate data and regression models; Experiment design; Inference (Hypothesis Testing, Confidence Intervals); Probability, and AP Exam prep. Link: College Board Information

**GEOMETRY (MAT1021-1022)** **1.0 credit, S1 and S2** **9-11**

**Prerequisite | Algebra I**

**Description**: Students will be expected to have a scientific calculator. This course formally develops a student's understanding of geometry. Students will use numerous examples and applications from the outside world along with hands on activities to develop a formal understanding of points, lines, angles, polygons, circles, three dimensional figures, transformations, congruence, similarity and proofs. Algebraic skills will be utilized. Units of Study include: Introduction to Geometry and Coordinate Geometry; Angles; Transformations; Introduction to Proof Writing; Polygons and Quadrilateral Properties; Perimeter and Area Circles; Surface Area and Volume; Similarity; Trigonometry and Constructions.

# Mathematics

**INTRO TO DISCRETE MATH (MAT3052)** **0.5 credit, S2** **11-12**

**Prerequisite | Advanced Algebra**

**Description**: Discrete Math topics include many applications of mathematics that are not typically discussed in other high school courses. Some of those applications explored in this introductory course include: Euler Circuits/Paths for designing efficient routes for garbage collection or mail delivery, Digraphs for planning projects in order to efficiently complete tasks/project on time, Conflict Mapping/Graph Coloring to avoid conflicts between items that cannot be grouped together, Hamilton circuits, including the famous Traveling Salesperson Problem, for planning routes for plowing snow or for traveling to various locations, Ranked Choice Voting and Runoff Voting methods that are being implemented in many communities.

**INTRO TO STATISTICS (MAT3041)** **0.5 credit, S1** **11-12**

**Prerequisite | Advanced Algebra**

**Description**: This course will focus on three main topics: Data collection, Data analysis, and Statistical significance. Students will learn how to collect data worthy of being analyzed by exploring topics of sampling, creating surveys, and designing experiments. They will then learn how to summarize and present data numerically and graphically. Students will also explore what it means for data to be statistically significant and will use simulation techniques and technology to answer statistical questions.

**FST - FUNCT, STATS, TRIG (MAT3011-3012)** **1.0 credit, S1 and S2** **10-12**

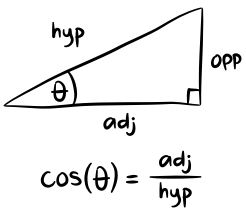
**Prerequisite | Advanced Algebra**

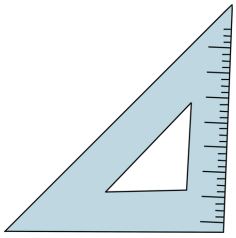
**Description**: Students must have successfully completed Advanced Algebra prior to enrolling in this course. Students should have a graphing calculator, preferably a TI-83 Plus or TI-84 model. FST is designed to reinforce and extend mathematical concepts from previous mathematics courses, in addition to studying advanced topics from algebra, statistics, trigonometry, and probability. Units of Study include: Review of Function Families, Transformation of Functions, Descriptive Univariate Statistics, Trigonometry, Polynomials, Sequences & Series, Logarithms, and Probability.

**FST/PRE-CALCULUS (MAT3021-3022)** **1.0 credit, S1 and S2** **10-12**

**Prerequisite | Advanced Algebra plus Approved Application**

**Description**: Students interested in taking this course should register for FST and then fill out an application for placement consideration in the FST/Pre-Calculus compacted course. The application process will be discussed in all Advanced Algebra courses at the beginning of 2nd semester. Submitted applications will be reviewed by the WCHS Math Department and recommendations for placement will be sent to applicants, their families, and the counseling office before Spring Break. Recommendations will be based on performance in Advanced Algebra, standardized test scores (pre-ACT), and additional criteria listed on the student application. This compacted FST/Pre-Calculus course is designed to allow students an opportunity to take AP Calculus in high school. It will combine those topics in FST and Pre-Calculus that are most essential to success in AP Calculus in a single course, and will deemphasize those topics (such as statistics and probability) that do not carry over to Calculus. Students considering this course need to be aware that some of the skipped topics of statistics, probability, and discrete math are important foundational topics in other areas of math that they might need to remediate should they want to pursue non-calculus math courses later in high school or college. Units of Study include: Review of function families; Transformations of functions; Trigonometry; Parametric equations, Polynomial functions, Rational functions, Rates of change (introduction to derivatives and integrals) and Sequences and series.



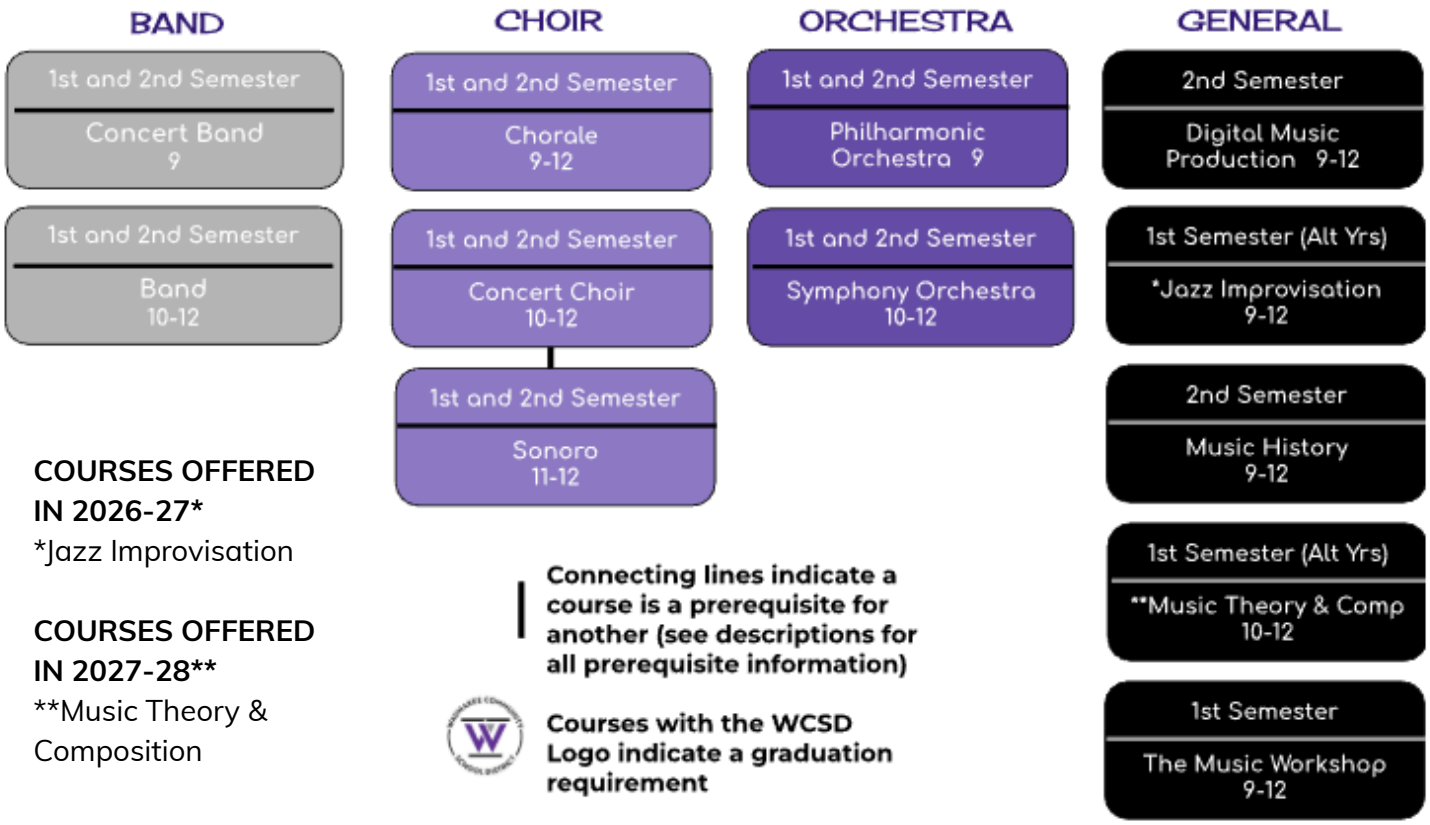
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

# Mathematics

**PRE-CALCULUS (MAT4021-4022)** **1.0 credit, S1 and S2** **11-12**
**Prerequisite | FST**
**Description**: Students must have successfully completed FST prior to enrolling in this course. Students should have a graphing calculator, preferably a Texas Instruments TI-83 Plus or TI-84 model. Pre-Calculus expands and reinforces the algebraic skills required for success in Calculus. Students who intend to take Calculus or are planning a STEM career should take this course. Units of Study include: Rates of change – introduction to derivatives and integrals; Trigonometry; Parametric Equations; Polynomial Functions; Rational Functions; Solving Equations; Counting Methods, and Conic Sections.

**SR MATH REASONING (DC) (MAT4001-4002)** **1.0 credit, S1 and S2** **12**
**Prerequisite | Advanced Algebra**
**Description**: All students need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. A collaborative, activity-based approach is used in this course to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for seniors who will be majoring in Science, Engineering, or Math in college and/or others who require calculus. This course is a dual credit course offered in conjunction with the Madison College course "Math Reasoning."

# Music Education



# Music Education

**BAND (MUS2011-2012)** **1.0 credit, S1 and S2, $10 Student Fee (Uniform)** **10-12**

**Description**: All band students are together to form the marching band which begins with summer rehearsals (band camp the week of the Waunafest parade and performs in the Waunafest parade). The band performs and marches at home football games when school begins through October and possibly into November with football playoffs. In late October, the marching band transitions to two concert bands. Students will be assessed only if they wish to be considered for Wind Ensemble (placement in Wind Ensemble will be based upon work ethic, balanced instrumentation, dedication/contributions to the band program and playing assessment. It is not based on what year you are in school). Band students perform at concerts in December, March and May and are expected to attend small group instruction. The Symphonic Band generally plays Class B and C music and the Wind Ensemble generally plays Class A and B music.

**CHORALE (MUS1111-1112)** **1.0 credit, S1 and S2** **9-12**

**Description**: Chorale is an introductory ensemble designed for individuals who are new to choral singing at the high school and want to explore the fundamentals of singing in a choir. This course aims to develop participants' vocal skills, creativity, musicality, and ensemble singing abilities. Participants will learn basic vocal techniques, sight-singing, ear training, and the art of singing in harmony with others. Within large and small group instruction and through individual goal setting, students will enhance their skills and understanding in vocal technique, music literacy, music theory, rehearsal techniques, listening skills and ear training, collaborating with others, and sight reading.

**CONCERT BAND (MUS1011-1012)** **1.0 credit, S1 and S2, $10 Student Fee (Uniform)** **9**

**Description**: Concert Band is a Freshmen only full-year class designed to transition students into the high school band program. All freshman band members are expected to attend summer band camp and perform in the Waunafest parade. Concert Band will have units of study to include marching band concepts, level appropriate musical skill-building, age/ability appropriate band literature, performance techniques and solo and ensemble. Required performances for this group consist of Marching Band performances during September & October, three formal concerts in December, March, & May, and solo ensemble performances in March. Members of this ensemble will have the same opportunities to play in cocurricular offerings such as Pep Band, Jazz Ensembles and Jazz Combo as students in grades 10-12.

**CONCERT CHOIR (MUS2131-2132)** **1.0 credit, S1 and S2** **10-12**

**Description**: Concert Choir is an intermediate ensemble designed to build upon the foundational skills acquired in Chorale. This course focuses on enhancing vocal techniques, musicianship, ensemble cohesion, creativity and performance skills. Students will develop a deeper understanding of choral music and develop the strengths they contribute to the ensemble. Within large and small group instruction and through individual goal setting, students will enhance their skills and understanding in vocal technique, music literacy, music theory, rehearsal techniques, listening skills and ear training, collaborating with others, and sight reading.

**DIGITAL MUSIC PRODUCTION (MUS1342)** **0.5 credits, S2** **9-12**

**Description**: Students in Digital Music Production will create a portfolio of music projects including digital music production, songwriting and multi-track recording. Students will create tracks, record instruments and voices, and sample other sound sources in a digital audio workstation. In addition, students will explore general music structures and conventions and basic music theory while creating music in multiple software applications including Logic Pro, Garage Band, Sibelius and Flat. This introduction to digital sound production will help expose students to a career in music production, digital communication or similar fields.

# Music Education

**JAZZ IMPROVISATION (MUS1311)** **0.5 credits, S1 (ALTERNATING YEARS)** **9-12**

**Description**: This course provides introductory and intermediate instruction of jazz improvisation. During the course of the semester, you will be exposed to a number of jazz styles. Through these styles students will study the fundamentals of improvisation to include chord structures, chord notation, chord progressions, scales, musical forms, listening to, transcribing and performing jazz music. Students will be expected to sing and/or play both in classroom situations and performance-based situations. By the end of the semester, the goal is to be comfortable with improvising over song forms including the 12 bar blues, AABA, and modal while utilizing a variety of scales. You must be able to read notes and rhythms. Students in this course will be welcomed to join the jazz combo, jazz ensembles or vocal jazz ensemble.

**MUSIC HISTORY (MUS1322)** **0.5 credits, S2** **9-12**

**Description**: This course provides an introductory survey of music fundamentals, music history, world music (to include Native American) music in theater and film, and music technology. Students will examine musical developments in various genres ranging from medieval to modern, jazz, pop/rock, and blues as they relate to major historical events, social movements, and cultural trends. Students will examine historical recordings to develop listening skills and distinguish specific characteristics among a variety of musical styles. Attendance at two live performances separate from regular class meetings is required.

**MUSIC THEORY & COMPOSITION (MUS2311)** **0.5 credits, S1 (ALTERNATING YEARS)** **10-12**

**Prerequisite | Previous Music Experience**

**Description**: (Formerly called Music Technology) In this course, students discover the fundamentals of Western European music theory including scale construction, chord progressions, tonality, aural skills, sight reading and music terms and symbols. Students will demonstrate what they know through class discussions, aural skill development, digital applications and composition. The class includes the use of music computer software programs, keyboards, listening workbooks, group discussion, individual projects, and hands on demonstrations. Students must have extensive band, choir, orchestra, or piano background. To be successful in this course, students should excel at reading music including pitches and rhythms.

**PHILHARMONIC ORCHESTRA (MUS1211-1212)** **1.0 credit, S1 and S2** **9**

**Prerequisite | Prior String Instrument Experience**

**Description**: Philharmonic Orchestra includes string players in grade 9. A wide variety of music is studied, including world folk, jazz, classical and traditional pieces. We perform 3 concerts a year and students have the opportunity to participate in the annual Solo Ensemble Festival in March. At this level, we focus on improving our string performing techniques such as advanced bowings and finger positions. Class time is also used to explore music history and music theory, as well as strengthen aural skills with ear training activities.

**SONORO (MUS3121-3122)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | Concert Choir plus Audition**

**Description**: Sonoro is an advanced ensemble designed for experienced choral singers who are looking to refine their vocal and ensemble skills to an exceptional level. This course puts a strong emphasis on advanced musicianship, artistic interpretation and the mastery of advanced complex choral music from a variety of genres and periods. Within large and small group instruction and through goal setting, students will enhance their understanding of vocal tone color, music theory, ear training, collaborating to create a cohesive and nuanced ensemble sound, section leading and conducting, improvisation and sight reading.

# Music Education

**SYMPHONY ORCHESTRA (MUS2211-2212)** **1.0 credit, S1 and S2** **10-12**

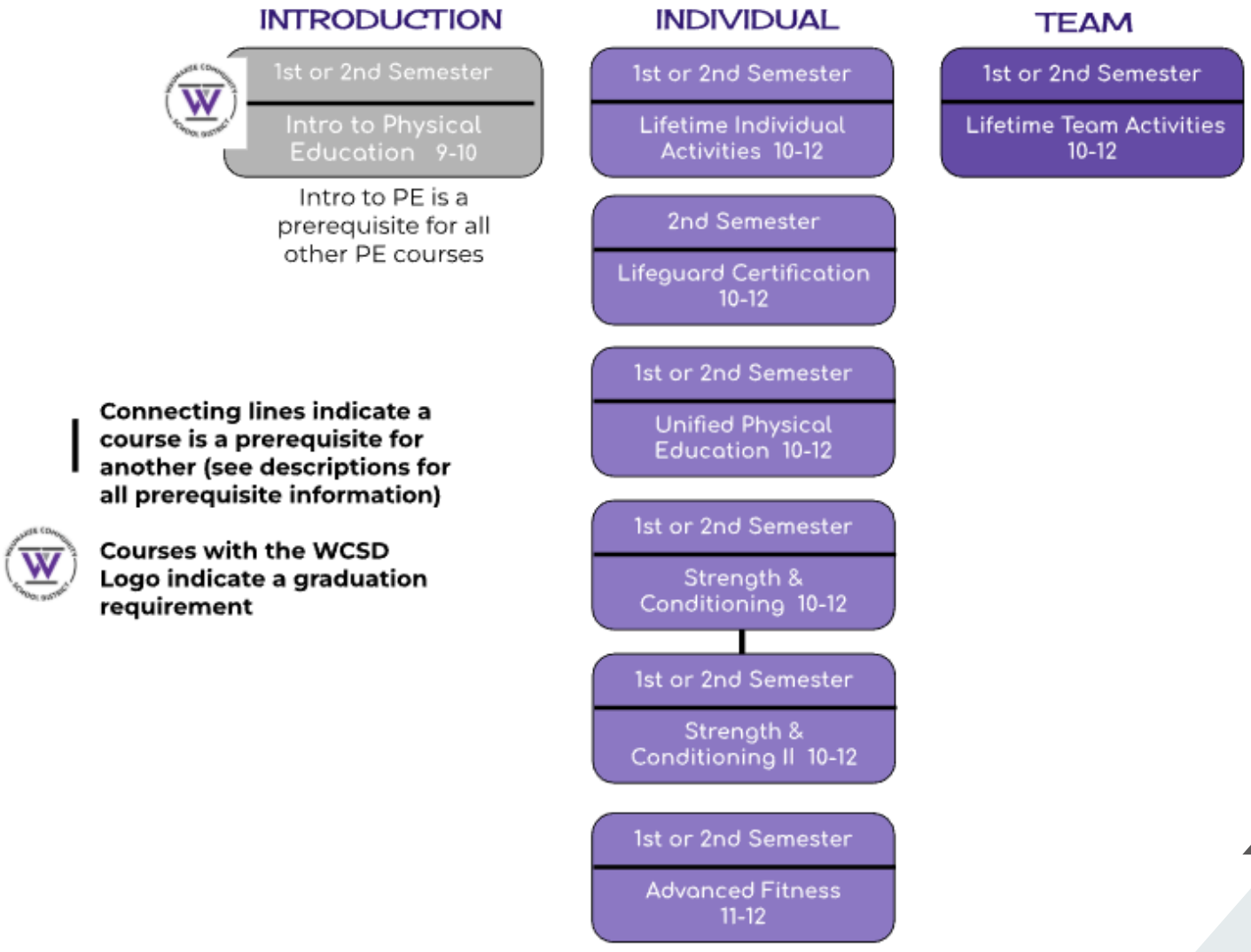
**Prerequisite | Prior String Instrument Experience**

**Description**: Symphony Orchestra includes string players from Grades 10-12. A wide variety of music is studied, including world folk, jazz, classical and traditional pieces. We perform 4 concerts a year (Nov, Dec, March and May) and students have the opportunity to participate in the annual Solo Ensemble Festival in March. In Symphonic Orchestra, we continue to advance our techniques and understanding of music theory and music history. Each year we collaborate with advanced band members to perform symphonic masterpieces.

**THE MUSIC WORKSHOP (MUS1331)** **0.5 credits, S1** **9-12**

**Description**: Students in The Music Workshop will develop music making skills and explore music literacy in many forms using the medium of pop, folk and rock music. All students will explore playing guitar, electric bass, keyboard, drums and vocals, and use what they have learned to create rhythm ensembles, arrange their own music and explore music performance and/or recording.

# Physical Education



# Physical Education

**ADVANCED FITNESS (PHY3011/3012)** **0.5 credits, S1 or S2** **11-12**
**Prerequisite | Intro to Physical Education**
**Description**: This class is designed for the fitness-minded student. Strength training is a daily component in which the student will work on lower and upper body exercises. Students will also increase strength in the abdominals, obliques, and back. Each class will end with aerobic/anaerobic exercises to increase cardiovascular endurance and flexibility. Units will include: Introduction to lifting/muscle recognition/safety, Fitnessgram testing (mile, pacer, curl-ups, push-ups), nutrition, swimming and personal training. Great emphasis is put on a positive attitude and taking responsibility. All physical education classes are co-educational and all upper level classes are combined grades 11 & 12. If a student wishes to take both Adv. Fitness and Strength and Conditioning, they may NOT take them during the same semester.

**INTRO TO PHYSICAL EDUCATION (PHY1011/1012)** **0.5 credits, S1 or S2** **9-10**
**Description**: Students must earn 1.5 credits of physical education to graduate from high school. Physical education at WCHS is designed to give students fitness knowledge and experience, skill development, activity knowledge and a positive attitude within a very comprehensive and unique list of offerings. Six units are offered each semester: Fitness, Volleyball, Swimming, Strength & Conditioning, Basketball, and Badminton.

**LIFEGUARD CERTIFICATION (PHY2062)** **0.5 credits, S2** **10-12**
**Prerequisite | See Qualifications in Description**
**Description**: The primary purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide professional-level care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services (EMS) personnel take over. Upon successful completion of the requirements for certification, students would have the option to purchase their American Red Cross Lifeguard Certification. This is what a student would use to give potential employers to verify their certification status.*Candidates must: Be at least 15 years old on or before the final scheduled session of the course and successfully complete the following two swimming skills evaluations.

1. Complete a swim-tread-swim sequence without stopping to rest:
   - Jump into the water and totally submerge, resurface then swim 150 yards using the front crawl, breaststroke or a combination of both. (Swimming on the back or side is not permitted. Swim goggles are allowed)
   - Maintain position at the surface of the water for 2 minutes by treading water using only the legs
   - Swim 50 yards using the front crawl, breaststroke or a combination of both
2. Complete a timed event within 1 minute, 40 seconds:
   - Starting in the water, swim 20 yards. (The face may be in or out of the water. Swim goggles are not allowed)
   - Submerge to a depth of 7 - 10 feet to retrieve a 10-pound object
   - Return to the surface and swim 20 yards on the back to return to the starting point, holding the object at the surface with both hands and keeping the face out at or near the surface
   - Exit the water without using a ladder or steps

# Physical Education

**LIFETIME INDIVIDUAL ACTIVITIES (PHY2041/2042)** **0.5 credits, S1 or S2** **10-12**
**Prerequisite | Intro to Physical Education**
**Description**: Great emphasis is put on a positive attitude, taking responsibility and wellness planning for the future. All physical education classes are co-educational. If a student chooses to take both Lifetime Activities and Strength and Conditioning, they may take them during the same semester. Lifetime Activities (2-year cycle) will be selected from the following units: (fitness emphasized in all units) personal wellness, outdoor activities, recreational activities, fitness trends. This course is designed for students who prefer individual exercise. Students MAY repeat this course for PE credit as long as they are taken in different school years.

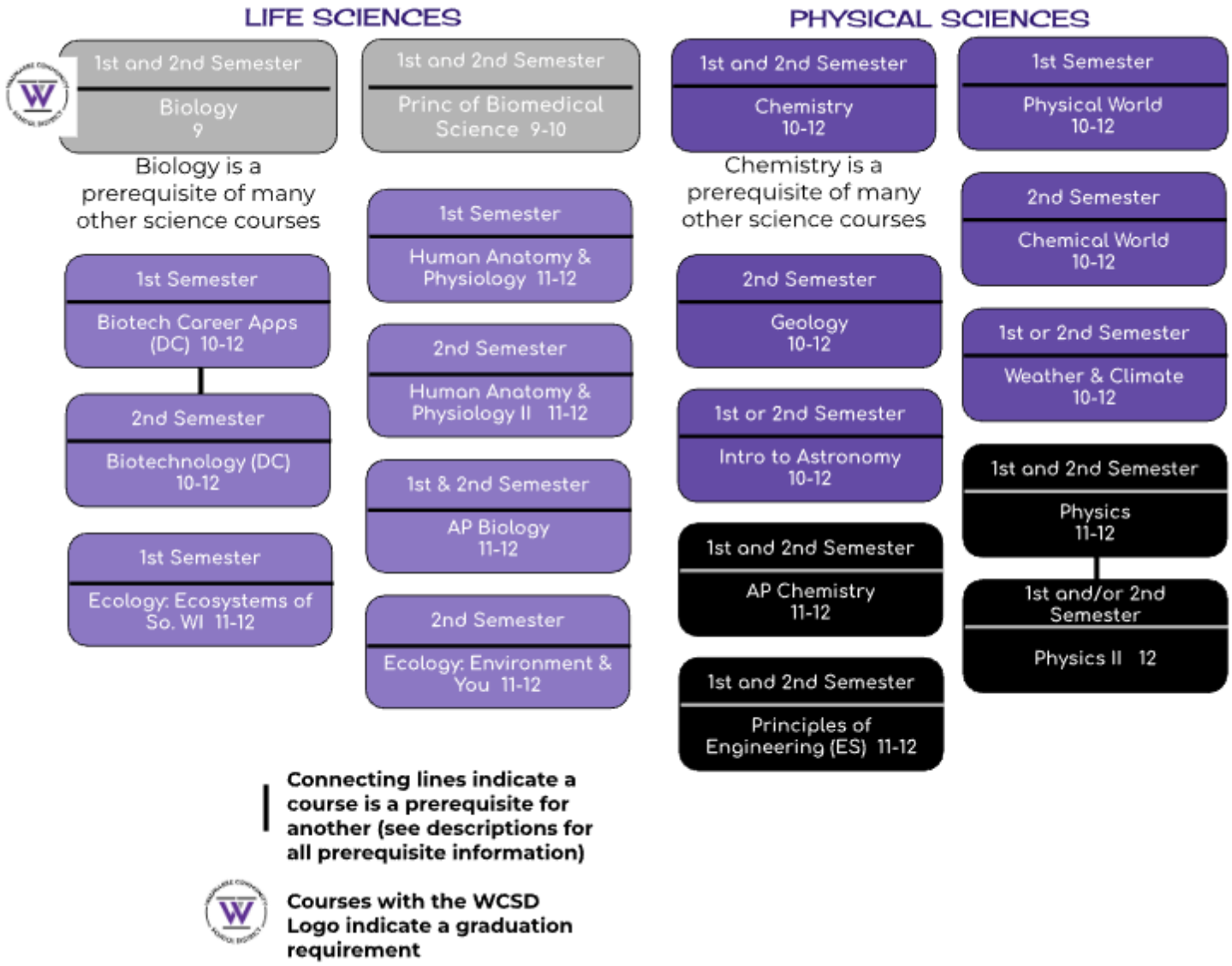
**LIFETIME TEAM ACTIVITIES (PHY2051/2052)** **0.5 credits, S1 or S2** **10-12**
**Prerequisite | Intro to Physical Education**
**Description**: Great emphasis is put on a positive attitude, teamwork, and wellness planning for future team activities. All physical education classes are co-educational. If a student chooses to take both Lifetime Activities and Strength and Conditioning, they may take them during the same semester. Team Activities (2 year cycle) will be selected from a variety of indoor and outdoor Team Games. This course is designed for students who want to participate in Team Games/Activities. Students MAY repeat this course for PE credit as long as they are taken in different school years.

**STRENGTH & CONDITIONING (PHY2021/2022)** **0.5 credits, S1 or S2** **10-12**
**Prerequisite | Intro to Physical Education**
**Description**: This introductory course is for students who want to boost their athletic performance, physical fitness, and overall health. Through a structured program, you'll master the fundamental principles of resistance exercise, including proper form and technique for a variety of lifts and movement patterns, along with speed, agility, plyometric, and conditioning drills.

**STRENGTH & CONDITIONING II (PHY2031/2032)** **0.5 credits, S1 or S2** **10-12**
**Prerequisite | Strength & Conditioning**
**Description**: This course will be offered to students interested in furthering their knowledge, technique, and concepts, as it relates to strength and conditioning. This will be a high intensity course that will feature advanced lifting techniques, mentoring and peer teaching, and career research into the dynamic world of fitness training.

**UNIFIED PHYSICAL EDUCATION (PHY2071/2072)** **0.5 credits, S1 or S2** **10-12**
**Prerequisite | Intro to Physical Education AND Application Process**
**Description**: The purpose of this course is to bring Adapted PE and Regular Education students together through various physical activities. Most activities are non-competitive and will require working together to complete a goal. Units MAY include swimming, bowling, team building activities, fitness, hiking, and other lifetime/outdoor activities. Students will also learn about different disabilities and how everyone can live happy and active lives. There will be a 1:1 mentor student: buddy student ratio. A minimum of 90% attendance (including excused or sports absences) is required to be a mentor student.

# Science




**AP BIOLOGY (SCI3011-3012)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | Biology & Chemistry**

**Description**: The 4 "Big Ideas" of AP Biology include a study of Evolution, Energetics, Information Storage and Transmission, and Systems Interactions. Unit topics include chemistry of life, cells, energetics, cell communication, heredity, gene expression and regulation, natural selection, and ecology. Each unit includes hands-on laboratory experiments and modeling. Students should expect extensive daily reading assignments, lab preparation, analysis and discussion. AP Biology is a college-level course designed to prepare students to take the Advanced Placement Exam for college credit. Link: College Board Information

**AP CHEMISTRY (SCI3031-3032)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | Chemistry**

**Description**: AP Chemistry covers the 9 major topics determined by the College Board. The curriculum builds off of the learning objectives in introductory Chemistry. Students create written lab reports, do online homework, and take tests in the same format as the AP Chemistry exam. Students are required to perform calculations during each unit as well as explain natural phenomena at the atomic level. First semester units of study include: Atoms and Compounds, Intermolecular Forces & Reactions in Solution. Second semester units of study include: Kinetics & Equilibrium, Acid & Bases, and Thermodynamics.
Link: College Board Information

# Science

**BIOLOGY (SCI1011-1012)** **1.0 credit, S1 and S2** **9**

**Description**: This is an introductory, survey course in Biology. Major themes of this course are: cells, genetics, evolution, diversity of life, organisms, human structure and function, and ecology. This course is designed as a basis for scientific learning and a general approach to the study of living things. Units of Study include: Classification, Ecology, Genetics, Intro to Evolution, Cellular Energy, Overview of Body Systems, Simple Chemistry – Organic Substances, Nucleic Acids, and Protein Synthesis.

**BIOTECH CAREER APPS (DC) (SCI2071)** **0.5 credits, S1** **10-12**

**Prerequisite | Chemistry or Chem World (or Concurrent Enrollment)**

**Description**: Students may earn dual credit at Madison College if a C or higher is earned. Provides a broad introduction to biotechnology including the scientific basis behind technologies and their current application in the areas of medicine, agriculture, forensics and the environment. This course is lab based and will cover skills and techniques essential for a successful career in a Biotechnology career. Units of study may include: DNA technologies, Gel Electrophoresis, genetic modification, immunology, bacterial culture, biofuels, and food production, analysis and safety. There will be career-related field trips and guest lecturers or interviews. There will be a full-day lab experience as part of this course at BTCI.

**BIOTECHNOLOGY (DC) (SCI2082)** **0.5 credits, S2** **10-12**

**Prerequisite | Biotech Career Apps or AP Biology (or Concurrent Enrollment)**

**Description**: Students may earn dual credit at Madison College if a C or higher is earned. This course is 75% hands-on lab based activities. A review of concepts related to the AP Biology curriculum will also be included. Units of study may include: Bacteriology and Sterile Technique, DNA Sequencing techniques, Gene transformation, Karyotyping and Genetics, Stem Cell technologies, Ethical and Legal aspects of Biotechnology, Gel Electrophoresis, and PCR and Gene Editing with CRISPR. There will be a full-day lab experience as part of this course at BTCI.

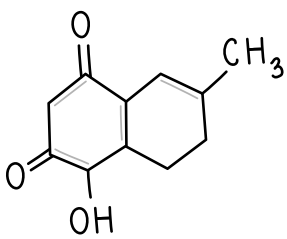
**CHEMICAL WORLD (SCI2022)** **0.5 credits, S2** **10-12**

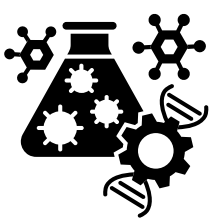
**Description**: This course is designed to give students active experiences with chemical principles and understand the relevance of chemistry in their daily lives. Emphasis is placed on the scientific method and a general study of Chemistry. Units of Study include: Matter, Atoms & Ions, Compounds, and Ionic & Covalent Bonding.

**CHEMISTRY (SCI2031-2032)** **1.0 credit, S1 and S2** **10-12**

***Recommendation* | Biology or Chem World and Geometry (C or better in both)**

**Description**: Chemistry is the study of matter and energy, the interactions between the two, and how those interactions shape the world we live in. Chemistry is a laboratory-based course that investigates and explains happenings in the observable world by looking at what is going on at the atomic level. Students will perform multiple laboratory techniques and quantitative analysis. Students must demonstrate proficiency with algebraic expressions and conversions.



# Science

**ECOLOGY: ECOSYSTEMS OF SO. WI (SCI3051)** **0.5 credits, S1** **11-12**

**Description**: Students should have an interest and aptitude in natural science. Emphasis is on understanding ecosystem structure and functions and how humans are connected to these environments. Both classroom and field trips/activities are used in studying natural communities such as forests and prairies. Select essays from Aldo Leopold's A Sand County Almanac and Dr. Robin Wall Kimmerer's Braiding Sweetgrass (YA edition) are used to support student understanding of these connections. Themes of Study include: Principles of Ecology, Sense of Place, Forest and Prairie Ecology and Management, Population Studies, and Wildlife Ecology and Management.

**ECOLOGY: ENVIRONMENT & YOU (SCI3062)** **0.5 credits, S2** **11-12**

**Description**: Students should have an interest and aptitude in natural science. Course emphasis is on the human connection to the environment including issue investigation and human use of resources. Current environmental issues provide for teaching opportunities for citizen involvement. "A Sand County Almanac" by Aldo Leopold and "Braiding Sweetgrass" by Dr. Robin Wall Kimmerer, provides lessons in ecological principles and philosophy. Field trips, some very early, are an integral element to the class. Themes of Study include: Human Resource Use, Wilderness, Ornithology, Wetland Ecology, Aquatic Ecosystems, Groundwater, and Issue Investigation.

**GEOLOGY (SCI2062)** **0.5 credits, S2** **10-12**

**Description**: The Earth's history will be unraveled as we go back in time 4.6 billion years in this investigative physical geology course. Units include: earthquakes, volcanoes, plate tectonics, Wisconsin's geological past, rocks and minerals, and earth history. Students will investigate and present a geologic topic as a semester project.

**HUMAN ANATOMY & PHYSIOLOGY (SCI3081)** **0.5 credits, S1** **11-12**

**Prerequisite | Chemistry or Chem World**

**Description**: This course is geared towards students interested in a career in a health or science field, or who have an interest in learning in-depth about the human body. Human Anatomy and Physiology I focuses on the terminology, structure and homeostatic function of major body systems through both microscopic and gross anatomy. Students will learn how structures coordinate within a system through the use of formal lectures, modeling, dissections, case studies, and interactive labs. Units covered include Anatomical Language and Feedback Systems and the Skeletal, Muscular, Circulatory, Respiratory, Digestive, and Reproductive Systems. The Anatomy and Physiology I and II courses can be taken individually or in any order.

**HUMAN ANATOMY & PHYSIOLOGY II (SCI3092)** **0.5 credits, S2** **11-12**

**Prerequisite | Chemistry or Chem World**

**Description**: This course is geared towards students interested in a career in a health or science field, or who have an interest in learning in-depth about the human body. Students will evaluate how molecules and structures in the body interact to maintain proper mental and physical health. Emphasis will be placed on interactions between body systems through formal lectures, experiments, dissections, research and case studies. Units include: Homeostasis, Cell Transport & Signaling and the Excretory, Nervous, Endocrine, Lymphatic, Immune and Integumentary Systems. The Anatomy and Physiology I and II courses can be taken individually or in any order.

# Science

**INTRO TO ASTRONOMY (SCI2041/2042)** **0.5 credits, S1 or S2** **10-12**

**Description**: This course is designed to offer students an introduction to the principles of astronomy through an inquiry, lab-based curriculum. Students will investigate the moon-earth-sun system, the role of the sun in our solar system, the characteristics and life-cycles of stars, Newton's law of universal gravitation, and scientific theories of cosmology. Inquiry labs will include physical modeling, real-time data analysis, and interactive computer-based models of celestial phenomena. Although largely descriptive, the course will occasionally require the use of sophomore level mathematics. Students will have the opportunity to research additional topics of interest through a semester project of their choice.

**PHYSICAL WORLD (SCI2011)** **0.5 credits, S1** **10-12**

**Description**: This course is designed to give students active
experiences with how physics and engineering interact with our lives. Emphasis is placed on the core skills of collecting, analyzing, & communicating scientific data and iterative design. Units of study include Energy, Work & Forces, and Motion.

**PHYSICS (SCI3021-3022)** **1.0 credit, S1 and S2** **11-12**

**Prerequisite | Advanced Algebra**

**Description**: Physics is a way of looking at and questioning our ever-changing environment. Physics is presented not merely as a body of facts, but as a continuing process by which we can seek to understand our own physical world. Students will discover the basics of physics as well as be able to apply physics concepts to their daily lives. This course is very real world and hands-on culminating in an investigation of amusement park physics. Units of Study include: Motion, Forces, Momentum & Energy, Work & Simple Machines, Waves, Sound & Light, and Optics.

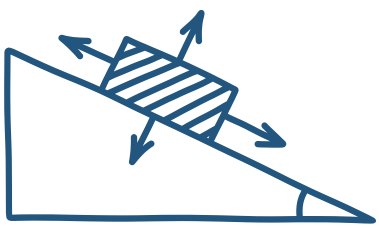
**PHYSICS II (SCI4011 and/or 4022)** **0.5 or 1.0 credit, S1 and/or S2** **12**

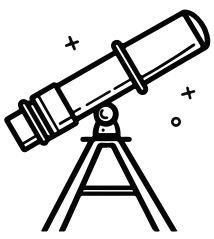
**Prerequisite | Physics**

**Description**: Students may elect to take both semesters or just Semester 1 or Semester 2. Physics II is a continuation of Physics and covers new topics. This is an excellent course for students pursuing careers in math, science, and/or engineering at the post-secondary level. Units of Study include: (Semester 1) Thermodynamics, Electricity and Magnetism, Share Science Project (share science lessons with elementary students); (Semester 2) Rube Goldberg Competition Machine, Modern Physics, Wireless Communication, Physics of Flying, and Share Science Project.

**PRINC OF BIOMEDICAL SCIENCE (SCI1021-1022)** **1.0 credit, S1 and S2** **9-10**

**Description**: This course provides an introduction to the field of biomedical science through exciting hands-on projects and problems. There are four major units: clinical care, forensic science, outbreaks/emergencies, and innovation. Students will determine the factors that led to the death of fictional characters by examining crime scene evidence and autopsy reports. They will explore biomedical science careers, human physiology, biology, medicine, and learn about health conditions including heart disease, diabetes, and infectious diseases.



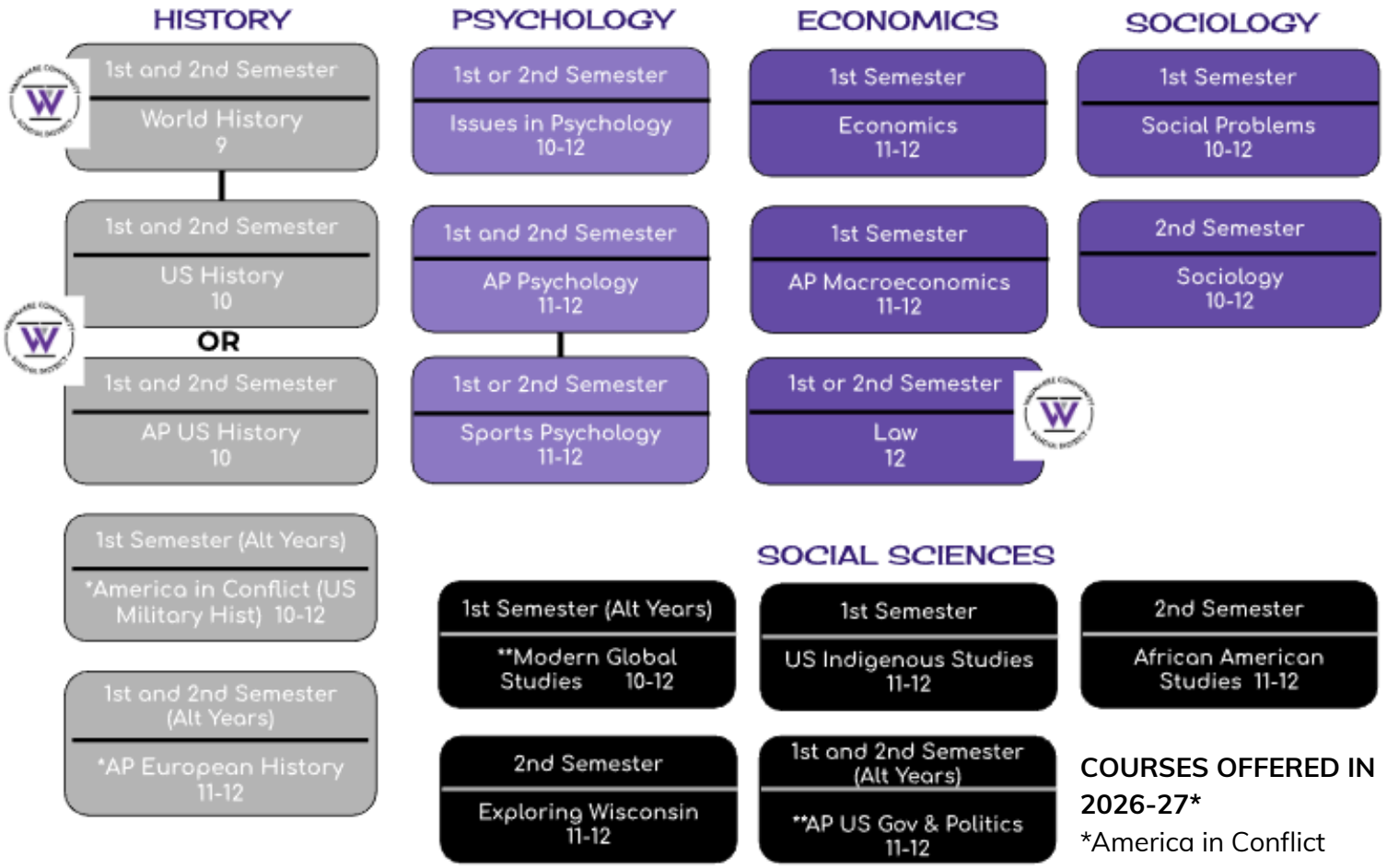


# Science

**PRINC OF ENGINEERING (TEE3011-3012) 1.0 credit, S1 and S2, Equivalency Science Credit (ES) 11-12**
**Prerequisite | Geometry**
**Description: Science credit is awarded for successful completion of this course as it is recognized as a science equivalency by the Wisconsin Department of Public Instruction as a third science credit. Please note that a maximum of 1.0 science credit may be earned from all (ES) courses completed.** Students who successfully complete both semesters may be eligible for college and/or technical school credit based on their score on the PLTW final exam. Any student planning on pursuing an engineering career should take this course. This course is lab based and conveys the concepts and principles of the engineering field. Students will be able to combine math and science skills to create practical, working solutions to real-life problems. Units of Study include: Mechanical Design, Application of Robotics, Energy in Action, and Designing Infrastructure and Developing Sustainability

**WEATHER & CLIMATE (SCI2051/2052) 0.5 credits, S1 or S2 10-12**
**Description**: This course is designed to allow students to explore the different factors that drive the weather and our changing climate. Students will also use data from weather maps to forecast current and future weather conditions. Areas of focus: How energy moves through the atmosphere, Humidity, Fronts, Air Pressure, and Air Masses. The course will culminate with students researching the climate of a continent or ocean of their choosing.

# Social Studies




**Connecting lines indicate a course is a prerequisite for another (see descriptions for all prerequisite information)**

**Courses with the WCSD Logo indicate a graduation requirement**

**COURSES OFFERED IN 2026-27***
*America in Conflict
*AP European History

**COURSES OFFERED IN 2027-28****
**AP US Government & Politics
**Modern Global Studies

**AP EUROPEAN HISTORY (SST3051-3052) 1.0 credit, S1 and S2 (ALTERNATING YEARS) 11-12**
**Description**: This course will be focused on European History from the Renaissance through the development of modern Europe. This course is excellent preparation for college. Link: College Board Information

**AP MACROECONOMICS (SST3121) 0.5 credits, S1 11-12**
**Description**: The purpose of AP 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. In May, students will have the opportunity to take the AP Macroeconomics exam in order to earn college credit (typically with a score of 3 or higher). Link: College Board Information

# Social Studies

**AP PSYCHOLOGY (SST3031-3032)** **1.0 credit, S1 and S2** **11-12**

**Description**: This class is designed to provide not only the content, but the rigor, of a college Psychology course. In general we will be learning about the scientific study of human behavior and the thought process. More specifically we will cover units related to neuroscience, sensation and perception, memory, learning, motivation, personality, disorders and others. The two main focuses in class will be to 1) allow the student to see and apply the psychological concepts in their lives, and 2) prepare students for the AP exam in early May. Successful completion of the AP exam will result in 3 college credits at most universities. Link: College Board Information

**AP US GOV & POLITICS (SST3062-3063)** **1.0 credit, S1 and S2 (ALTERNATING YEARS)** **11-12**

**Description**: This course offers an analytical perspective on American government and politics through reading activities, simulations, small and large group discussion and a field trip to watch the Wisconsin Supreme Court in action. Interested students will study general concepts used to interpret US government and politics and the analysis of visual data, specific court cases and primary source documents. Students will explore American institutions, groups, beliefs and ideas, along with theoretical perspectives and explanations for various behaviors and outcomes. Students will further develop their argumentative writing skill and design a Civic-based Project to deepen their understanding and involvement in course content assessed on the AP exam. Students will have the opportunity to take the AP exam at the end of the year in order to receive possible college credit with a qualifying grade. Link: College Board Information

**AP US HISTORY (SST2021-2022)** **1.0 credit, S1 and S2, $21.95 Student Fee (Wkbook)** **10-12**

**Description**: AP US History focuses on the development of reading and writing skills through a survey of United States history. AP US History is designed to be the equivalent of a two-semester introductory college or university US History course. We will also focus on test-taking skills in preparation for the AP exam. Students take this exam in May for a chance at college credit with a strong score. Link: College Board Information

**AFRICAN AMERICAN STUDIES (SST3092)** **0.5 credits, S2** **11-12**

**Description**: In Cultural Studies electives (African American Studies; US Indigenous Studies), we will critically examine the American experience through the lens of different groups of Americans. African American Studies focuses on grounding students in the art, music, and culture that African Americans have created in response to their historical circumstances throughout American history. Students will act as historians throughout the semester by utilizing primary and secondary sources, as well as their own original writing, to develop a portfolio connecting an art form to African American experiences, themes of the course, and American history at large.

**AMERICA IN CONFLICT-US MIL HIST (SST3041) 0.5 credits, S1 (ALTERNATING YEARS)** **11-12**

**Description**: America in Conflict is a survey of US foreign policy during the 20th and 21st centuries, with an emphasis on military engagements. The course will focus on the interaction between society and military institutions, lessons learned from past foreign policy decisions, and how the United States should handle current and future foreign policy issues. Students will use the course content to develop skills in historical research, argumentation, and the reading and interpretation of complex primary sources.

**ECONOMICS (SST3021)** **0.5 credits, S1** **11-12**

**Description**: The economics course is for upperclassmen that are curious about how money works in the real world. The course overviews a wide variety of economics topics like basics of economic thinking, supply and demand, income inequality, how business and government operate within the economy, international trade, investments, and personal finance. Economics explores these various topics through engaging activities, multiple projects, and a variety of assessments.

# Social Studies

**EXPLORING WISCONSIN (SST3002)** **0.5 credits, S2** **11-12**

**Description**: Students will learn about Wisconsin history, geography, and current events in the classroom. Students will literally Explore Wisconsin on their own time through self-directed trips called Sidequests that highlight the natural and cultural history of the Dane/Sauk County area. The course culminates in one or two field trips that highlight key lessons learned in the classroom.

**ISSUES IN PSYCHOLOGY (SST2031/2032)** **0.5 credits, S1 or S2** **10-12**

**Description**: This class is designed to offer students the opportunity to understand the connection of psychology and our lives, with a direct focus on the pursuit of happiness. We will focus on topics such as neurotransmitters and the brain, memory and study strategies, habit formation, as well as social connections. This class will provide an introduction to psychology which may be suited particularly well for students interested in AP Psychology or Sports Psychology.

**LAW (SST4011/4012)** **0.5 credits, S1 or S2** **12**

**Description**: Prepares students for some of the practical legal situations that they will face from the time they graduate through adulthood. Topics include personal finance, contract, and consumer law, introductory Constitutional law (including the US court system), civil law, criminal law, and family law. Students will analyze and apply concepts to a variety of legal situations, and relate legal topics to current situations in the US. Deliberation and communication skills will also be key foci of this course.

**MODERN GLOBAL STUDIES (SST2061)** **0.5 credits, S1 (ALTERNATING YEARS)** **10-12**

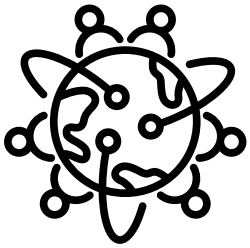
**Description**: Students will investigate current situations facing our world and evaluate their causes and options for resolution. This course addresses aspects of political science and will have intensive readings and research.

**SOCIAL PROBLEMS (SST2071)** **0.5 credits, S1** **10-12**

**Description**: Social Problems studies the issues people face when interacting with and living amongst one another. Studying Social Problems will give insight into how sociologists study and make conclusions about society and how people function within society. Social Problems also equips students with the skills to make important decisions about issues that are currently facing the United States. Topics include basic sociology, poverty, racial and gender inequality, crime, and drug abuse.

**SOCIOLOGY (SST2042)** **0.5 credits, S2** **10-12**

**Description**: Sociology is the systematic or scientific study of human society and social behavior, from large-scale institutions and mass culture to small groups and individual interactions. Topics of study include social theory, research methods, culture, social structure, socialization, groups, conformity, gender, and deviance. By the end of the course you will be able to think about society and your individual place within it in a new way.



# Social Studies

**SPORTS PSYCHOLOGY (SST3071/3072)** **0.5 credits, S1 or S2** **11-12**

**Prerequisite | Issues in Psychology or AP Psychology**

**Description**: This unique course will provide students with knowledge about psychological factors that affect human performance in sports, exercise, and optimizing human performance in other aspects of students' lives (i.e., work, music, and school). The goal of this course is to not only teach but have students apply psychological scientifically rooted mental skills and training techniques that will enhance and optimize their performance. This course will address the interactions between psychology and performance in the three areas of sports, exercise, and performance psychology which focuses on other professions that demand excellence in psycho motor performance (i.e., performing arts, surgery, firefighting, law enforcement, military operations, etc.) and applying the same underlying psychological skills training as sports and exercise.

**US HISTORY (SST2011-2012)** **1.0 credit, S1 and S2** **10**

**Description**: US History traces the development of the United States from the period of European exploration through the 20th Century. It considers the problems involved in setting up a state sufficiently rigid to withstand changing conditions as well as sufficiently flexible to cope with structural changes in American society. The course emphasizes the importance of the individual today in relation to other members of society, in regard to his/her role in government, and in helping to formulate government policy.

**US INDIGENOUS STUDIES (SST3081)** **0.5 credits, S1** **11-12**

**Description**: In Cultural Studies electives (African American Studies; American Indian Studies), we will critically examine the American experience through the lens of different groups of Americans. American Indian Studies focuses on grounding students in the unique relationships between American Indian nations and the United States government from the past to the present. Students will act as historians throughout the semester by utilizing primary and secondary sources, as well as their own original writing, to develop a portfolio connecting the experiences of one of the 574 federally recognized American Indian nations to the themes of the course and American history at large.

**WORLD HISTORY (SST1011-1012)** **1.0 credit, S1 and S2** **9**

**Description**: This is a required class for freshmen. The emphasis is on the establishment of civilizations and empires throughout the world. We will study early civilizations in Africa, Asia, the Americas, India, Middle East, and Europe during first semester. Second semester will have a greater focus on classical and medieval civilizations.

# Special Services

**ENGLISH LANGUAGE LEARNING WORKSHOP 0.25 credits, S1 or S2 9-12**

**Description**: The English Language Learning (ELL) Workshop is designed for beginning (Entering) to advanced intermediate (Expanding) Multilingual Learners (MLs). This course provides a content-based approach to language instruction, integrating English language development with academic content learning. The ELL Workshop also offers direct instruction and targeted practice in writing, supporting students in developing proficiency in academic English.

**ENGLISH 9 & ENGLISH 10 WORKSHOP 0.25 credits, S1 or S2 9-10**

**Description**: English 9 Workshop & English 10 Workshop are classes designed to help students be successful in both English class and all literacy-based subjects. Students in high school and college are required to read, analyze, and interpret complex content materials. This class will practice reading strategies, writing strategies, test-taking strategies, and study methods to help them become successful learners. This class depends on students' active participation in class, as well as assists in the application of specific learning strategies in content area classes. Students are generally required or recommended for this course based on several district criteria. Students should approach their English teacher if interested in being in this course.

**FRESHMAN ACADEMY 1.0 credit, S1 and S2 9**

**Prerequisite | 8th Grade Interview & Recommendation**

**Description**: Freshman Academy is a transitional program designed to help students acclimate to high school. The program was developed for students who are engaged in learning but may be struggling with Executive Functioning skills (Flexible Thinking, Working Memory, Self-Monitoring, Planning and Prioritizing, Task Initiation, and Organization). Some students may have anxiety towards school that may have contributed to poor attendance in the past. Students enrolled in Freshman Academy will attend the core subjects (Biology, English 9, World History and Math) with their classmates. Core Subject Teachers will modify the curriculum to meet the needs of the Freshman Academy students. Each day, following the two core subjects, students will attend Freshman Academy. During the Freshman Academy course, both core subject teachers will provide academic support for the students. Instructors will also review a variety of life skills such as organization, time management, motivation, and resilience. Students will also have the opportunity to take 2 elective courses each semester. The 3rd hour Freshman Academy class will act as a Study Hall. Unlike a regular Study Hall in the high school, students in Freshman Academy will earn a half a credit each semester. By the end of their freshman year, students enrolled in Freshman Academy will have the opportunity to earn 8 credits.

**HERITAGE BILINGUAL SCIENCE 1.0 credit, S1 and S2 9-12**

**Description**: By recommendation only. This program offers a year of Heritage Bilingual Biology and/or a year of Heritage Bilingual Environmental Science in alternating years for English Language Learners recommended for the program.

**MATH WORKSHOP 0.25 credits, S1 or S2 9-12**

**Description**: By recommendation only. Math workshop is a class designed to run parallel to high school math courses. Students enrolling in Algebra, Geometry or Advanced Algebra may be placed in a math workshop by teacher recommendation in addition to their regular math course. Math workshop offers additional instruction and support for students who need additional time to be successful in their math coursework. Math workshop is scheduled during a student's study hall and meets for half of the block.

# Teacher Assistants

## TEACHER ASSISTANT (TA) OPPORTUNITIES

High school students may request to serve as a Teacher Assistant (TA) with a member of the high school teaching staff. This opportunity replaces a study hall for one semester. Interested students should obtain enrollment information and required documents through the Counseling Office at the beginning of each semester. Teacher Assistant application forms are available in the Counseling Office and are approved based on teacher consent and availability.

Teacher Assistants support their cooperating teacher and the learning environment in a variety of ways. Typical duties may include assisting with classroom organization and preparation, helping manage instructional materials, supporting individual or small groups of students, assisting with technology or classroom resources, completing clerical or organizational tasks, and observing instructional practices. Duties vary by classroom and are designed to provide students with meaningful experience in responsibility, communication, and professionalism within an educational setting.

## TEACHER ASSISTANT COURSE DESCRIPTIONS

**ART LAB ASSISTANT** **0.25 credits, S1 or S2** **10-12**

**Description:** This course is designed for the student who is interested in working with the art teacher by completing tasks such as making copies and putting up art displays as well as working on miscellaneous projects related to art. Assistant application forms are available in the counseling office and approved based on teacher consent and availability.

**BUSINESS EDUCATION LAB ASSISTANT** **0.25 credits, S1 or S2** **10-12**

**Description**: Students wishing to advance their computer and/or business skills will aid the Business Education staff with various projects using class-related skills. Projects may involve communication with staff, students and parents. Students will adhere to policies and procedures when using resources such as network access and email accounts. Assistant application forms are available in the counseling office and approved based on teacher consent and availability.

**KOKOPELLI KAFE TEACHING ASSISTANT** **0.5 credits, S1 or S2** **11-12**

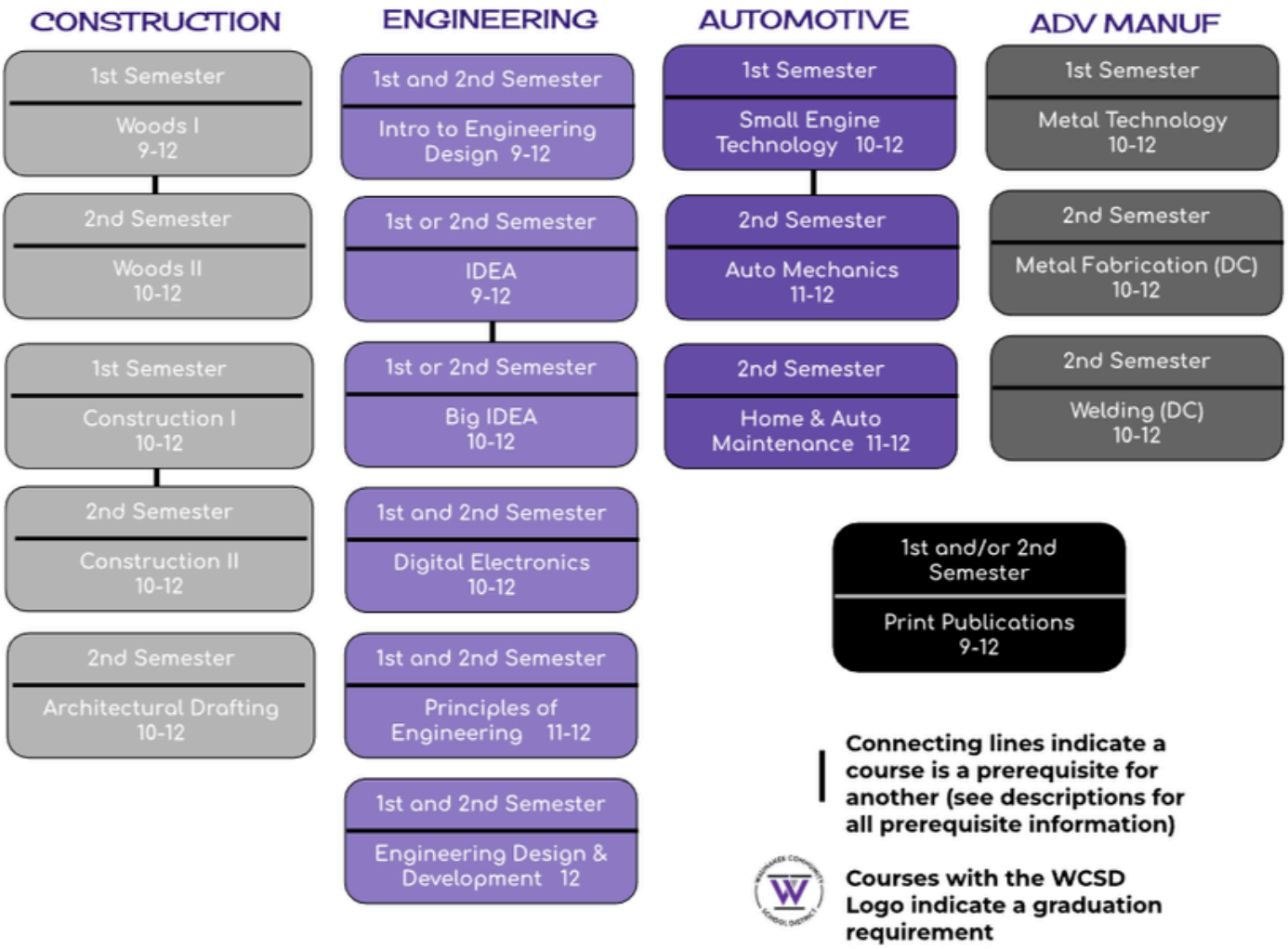
**Description**: Student teaching assistants will work closely with peers with disabilities to operate the school-based coffee shop. Ability to effectively communicate with staff and students, exhibit positive customer relations and be a positive role model is essential.

**SCIENCE LAB ASSISTANT** **0.25 credits, S1 or S2** **10-12**

**Description**: Students wishing to advance their computer and/or business skills will aid the Business Education staff with various projects using class-related skills. Projects may involve communication with staff, students and parents. Students will adhere to policies and procedures when using resources such as network access and email accounts. Assistant application forms are available in the counseling office and approved based on teacher consent and availability.

Teaching assistant opportunities are available across all departments, although only a limited number of departments have submitted specific position descriptions.

# Technology & Engineering Education




**ARCHITECTURAL DRAFTING (TEE2012)** **0.5 credits, S2** **10-12**

**Description**: Do you have an interest in design? Are you interested in how houses are structurally designed and created? Architectural drafting is a course that allows you to learn about the design and structural aspects of a residential house. Through the course, you'll understand how a house is planned and what makes a house functional and aesthetically pleasing. This course involves the designing and constructing of a complete set of architectural plans for a given residence house using AutoCad/Revit Software. This class is ideal for any student that is pursuing a career in the field of engineering design or construction pathway. The knowledge gained from this course will be helpful with any field of study for the above pathways. The main topics for the class include the history of architecture, room orientation and layout, aesthetic composition of residential house, blue print reading and creation and foam core modeling. Students interested in pursuing a construction, architecture, or civil engineering career path may consider taking prep trades and/or construction trades as well.

**AUTO MECHANICS (TEE3062)** **0.5 credits, S2** **11-12**

**Prerequisite | Small Engine Technology**

**Description**: This course will concern itself with the technology and systems found in the modern automobile. Besides automobile engine (expanding on what was covered in Small Engine Technology) the braking systems, drive train, suspension, and accessory systems will be covered. Students will perform work on automobiles engines and components found in the shop. This course is intended to give students a foundation to perform routine auto maintenance. Units of Study include: Basic Maintenance; Braking System; Drive Train; Suspension System; Electronic System; Ignition System; and Power Train.

# Technology & Engineering Education

**BASIC HOME & AUTO MAINTENANCE (TEE2062) 0.5 credits, S2, $10 Student Fee 11-12**

**Description**: Do you have an interest in design? Are you interested in how houses are structurally designed and created? Architectural drafting is a course that allows you to learn about the design and structural aspects of a residential house. Through the course, you'll understand how a house is planned and what makes a house functional and aesthetically pleasing. This course involves the designing and constructing of a complete set of architectural plans for a given residence house using AutoCad/Revit Software. This class is ideal for any student that is pursuing a career in the field of engineering design or construction pathway. The knowledge gained from this course will be helpful with any field of study for the above pathways. The main topics for the class include the history of architecture, room orientation and layout, aesthetic composition of residential house, blue print reading and creation and foam core modeling. Students interested in pursuing a construction, architecture, or civil engineering career path may consider taking prep trades and/or construction trades as well.

**BIG IDEA (TEE1051/1052) 0.5 credits, S1 or S2, $25 Student Fee 10-12**

**Prerequisite | IDEA**

**Description**: BIG IDEA picks up where IDEA leaves off. Students looking to continue the exploration of Digital Fabrication and use of technology should sign up for this course. In BIG IDEA students will learn more in depth skills revolving around the equipment in the Innovation Center in addition to electronics production, embroidery and screen printing. Students will have an opportunity to take the skills learned in IDEA and build on them exploring projects of their choosing. Individually chosen projects will be a cornerstone of this class. Students who successfully complete IDEA + BIG IDEA may use these classes in place of PLTW classes to enter the senior capstone Engineering Design and Development class their senior year.

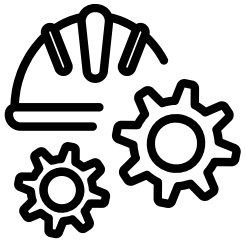
**CONSTRUCTION I (TEE2031) 0.5 credits, S1, $25 Student Fee 10-12**

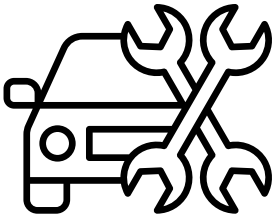
**Description**: Are you looking for a course that not only offers some of the most practical knowledge in school but also gives you experience in many different construction trades? If so, make certain your plans include Construction I, a course designed to teach you about the many different skills, facts, and trades involved in the construction of a home. You will receive basic training in concrete flat work and masonry work, rough and finish carpentry, layout, electrical wiring and much more. If you are not certain about your career or if you are thinking about building your own home someday, this course is a first step must. Instructor approval is required for students who have not taken previous industrial education courses; however, students with previous industrial education will be given top priority. Students will work in teams to build a full scale model of a house using actual house plans and complete unit projects in other major areas of construction trades.

**CONSTRUCTION II (TEE2132) 0.5 credits, S2, $25 Student Fee 10-12**

**Prerequisite | Construction I**

**Description**: Do you have any interest in understanding how a residential house is constructed? Construction II offers an opportunity for students to explore the different skills and trades that are associated with building a residential house. Students will work on modules that represent all aspects of a residential house. Students will also have the opportunity to earn an industry recognized certification, OSHA 10. Units of study will include Blueprint Reading, Roof Construction, Exterior Finishing, Drywall, Electrical, Plumbing, and Project Estimation.





# Technology & Engineering Education

**DIGITAL ELECTRONICS (TEE2071-2072) 1.0 credit, S1 and S2 10-12**

**Description**: Digital Electronics (DE) is a high school level course that is appropriate for 10th grade, or higher, students who are interested in design and engineering. From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Digital Electronics gives students the opportunity to develop skills and understanding of course concepts through activity, project-, and problem-based learning. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. Students who successfully complete semesters 1 & 2 may be eligible to receive technical college or university credit for this course. Credit award, if any, is determined by each university or technical college.

**ENGINEERING DESIGN & DEV (TEE4011-4012) 1.0 credits, S1 and S2 12**

**Prerequisite | 4 Semesters of PLTW Coursework OR IDEA & Big IDEA**

**Description**: Students taking EDD must have successfully completed 4 semesters of the Project Lead the Way basic courses (IED, POE &/or DE) OR successfully completed both IDEA and Big IDEA with a letter grade of B or better to be eligible to take this course. This course is a senior design course and is run much like an independent study in which a team of 2-3 students complete the entire engineering design process from problem identification to solution of that problem. This may be a brand new invention or an innovation on a current product. Students will research, design, and build a real life prototype of their new product. Students are required to be entered into the state PLTW design competition and give a product presentation at the end of the year to successfully complete this course. Units of Study include: Problem Identification, Research, Decision Process, Design, Build, Test, and Presentation.

**IDEA (TEE1041/1042) 0.5 credits, S1 or S2, $25 Student Fee 9-12**

**Description**: Do you want to use state-of-the-art equipment to design, build, and test almost anything you can dream of? Would you like to develop the technological, problem-solving, and hands-on skills desired by employers? If your answer is yes, then this course is for you. In IDEA, computer-controlled fabrication technologies such as 3D printers, CNC routers, vinyl cutters, and milling machines will be used to transform a product idea into its tangible form. Students will explore many interrelated career fields, including engineering, science, math, art, graphic design, computer aided design, electronics, and entrepreneurship.

**INTRO TO ENGINEERING DESIGN (TEE1011-1012) 1.0 credit, S1 and S2 9-12**

**Description**: Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. Students who successfully complete semesters 1 & 2 may be eligible to receive technical college or university credit for this course. Credit awarded, if any, is determined by each university or technical college.

# Technology & Engineering Education

**METAL FABRICATION (DC) (TEE2142)** **0.5 credit, S2, $20 Student Fee** **10-12**
**Prerequisite | Metal Technology**
**Description**: Metal Fabrication introduces students to the fundamentals of metal cutting and forming. Emphasis is placed on safety, basic layout techniques, bending calculations, and the operation of cutting/forming equipment through hands-on, project-based, instruction. As a Metal Fabrication student, you will:

- Learn the basics of cutting, forming and joining common manufacturing materials.
- Use a variety of manual and programmable equipment techniques and processes.
- Develop your technical knowledge of blueprint reading, layout metal fabrication and welding.
- Produce fabricated assemblies and detailed drawings that conform to industry quality-control methods and standards.

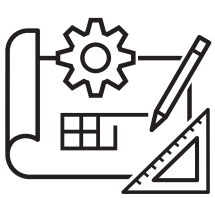
This course is offered as a dual-credit option with Madison College.

**METAL TECHNOLOGY (TEE2041)** **0.5 credits, S1, $20 Student Fee** **10-12**
**Description**: Any student considering a career in metal fabrication or repair should consider this course a must. Today's technicians at all levels who lack the knowledge of stick and wire feed welding are at a great disadvantage. Students in this course will learn through classroom discussion and hands-on practice with stick, wire (MIG), and TIG welding, basic lathe operations, tap and die, CNC, grinding, and other basic metalworking principles. Students will then use their new skills to design and build a project of their own. Any students in grades 10-12 who are looking for a good practical course or a possible career are encouraged to sign up for this course.

**PRINC OF ENGINEERING (TEE3011-3012) 1.0 credit, S1 and S2, Equivalency Science Credit (ES)** **11-12**
**Prerequisite | Geometry**
**Description**: **Science credit is awarded for successful completion of this course as it is recognized as a science equivalency by the Wisconsin Department of Public Instruction as a third science credit. Please note that a maximum of 1.0 science credit may be earned from all (ES) courses completed.** Students who successfully complete both semesters may be eligible for college and/or technical school credit based on their score on the PLTW final exam. Any student planning on pursuing an engineering career should take this course. This course is lab based and conveys the concepts and principles of the engineering field. Students will be able to combine math and science skills to create practical, working solutions to real-life problems. Units of Study include: Energy and Power, Materials and Structures, Control Systems, and Statistics and Kinematics.

**PRINT PUBLICATIONS (TEE1101/1102)** **0.5 credits, S1 and/or S2** **9-12**
**Description**: In this fast-paced class the Print Publications staff learns about and produces the school's annual yearbook "Whipurwauna" and the monthly news publication, The Purple Sage. Students will learn Photography, Basic Design, Page Layout, Press Law, and Production Skills as well as 21st Century Technology skills. Students work cooperatively to decide content and produce the school yearbook and newspaper during class. Students who are interested in writing, editing, design, art, photography, and social media/print production are strongly encouraged to take this class. Print Publications may be taken multiple years. This class is recommended for extremely creative and talented 9-12 graders who want to leave their fingerprint on their school by working on award winning publications that will live on long after graduation. This class is a semester-long class and students may add this class both semester if their schedule permits enrolling for the entire year.

#yearbook



# Technology & Engineering Education

**SMALL ENGINE TECHNOLOGY (TEE2051)** **0.5 credits, S1** **10-12**

**Description**: Small Engine Technology is an exploratory course for students interested in the technology involved in the transportation industry and its career pathways. Students will learn the basics of small engine operation and be able to identify industry standards. Students will be able to demonstrate the ability to take apart, tune up, maintain, repair, and rebuild small engines. During this hands-on course, students will disassemble, inspect, and then reassemble a 4-stroke engine while learning about the construction operation and maintenance of engines. The course is aligned with the Briggs & Stratton online curriculum. After learning about the engines, students will be required to bring in 1-2 small engines to perform standard small engine tune-up. Small engine equipment may be available to those students who need them.

**WELDING (DC) (TEE2102)** **0.5 credits, S2, $20 Student Fee** **10-12**

**Prerequisite | Metal Technology**

**Description**: Students in Welding will develop solid hands-on skills, as well as a good understanding of the following welding processes through project-based activities:

- Advanced Gas Metal Arc (GMAW)
- Shielded Metal Arc Welding (SMAW)
- Gas Tungsten Arc Welding (GTAW)
- Fluxed-Core Arc Welding (FCAW)

Coursework will consist of classroom discussions, reading assignments, test/quizzes, as well as hands-on projects. All welding competencies will be evaluated using American Welding Society (AWS) Structural Steel. This course is offered as a dual credit option for SMAW or GMAW welding processes through Madison College.

**WOODS I (TEE1081)** **0.5 credits, S1, $40 Student Fee** **9-12**

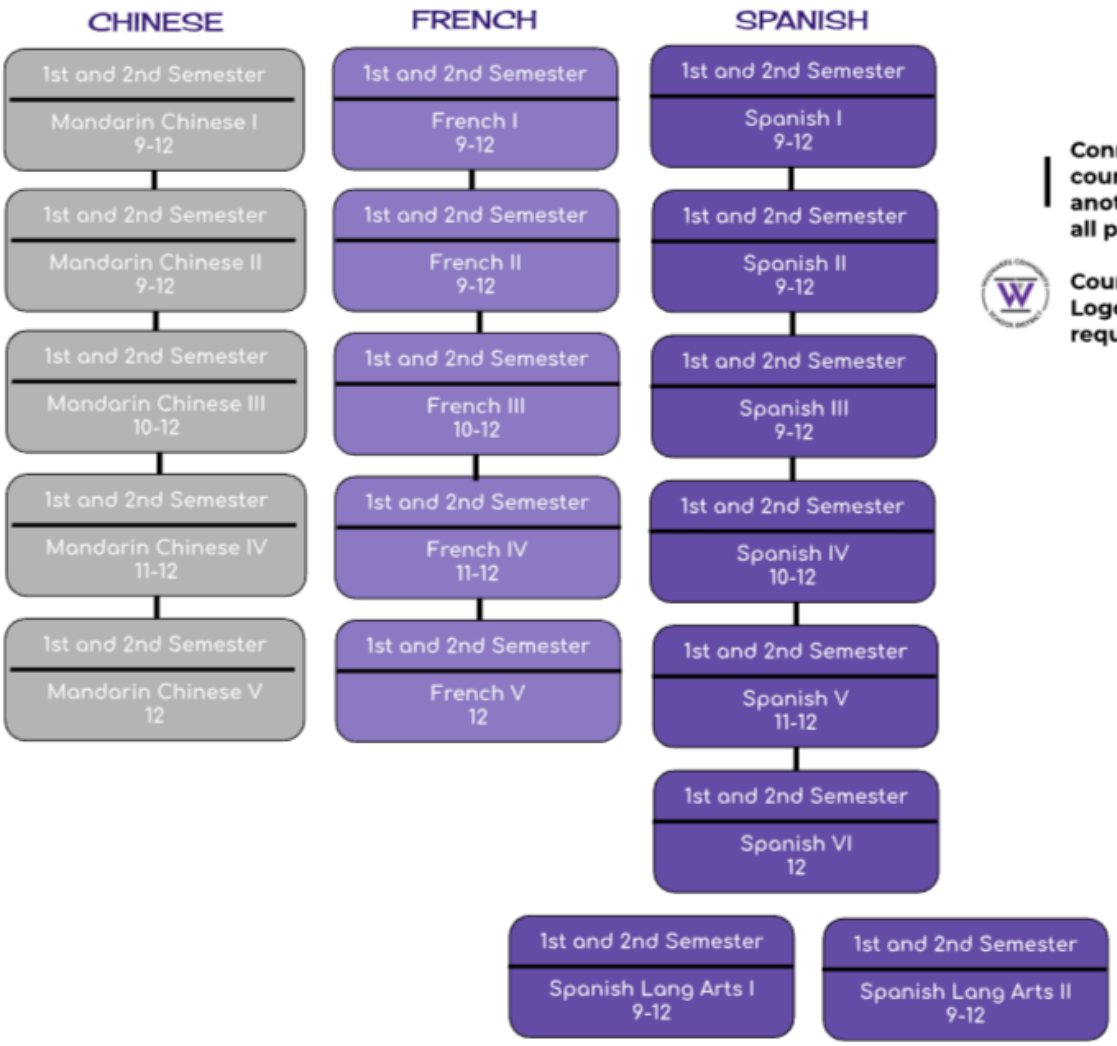
**Description**: Do you have an interest in fine woodworking skills and the equipment used to make these types of projects? Woods I will teach you the correct fundamental skills to safely use both hand and power tools while you learn basic skills of fine woodworking. Students will learn proper woodworking methods including designing and layout, selection of materials, machining procedures, joint construction, and finishing concepts. Students will be required to design, plan, and create one project of their own choice towards the end of 1st semester. This class is highly recommended for any student who has an interest in a designing or construction pathway. Units of Study include: Safety, Joinery, Finishing, Design Techniques, Blue Print Planning & Construction, Project Procedural Outline, Board Foot Calculation, and Basic Linear Measurement.

**WOODS II (TEE2082)** **0.5 credits, S2, $40 Student Fee** **10-12**

**Prerequisite | Woods I**

**Description**: Do you want to learn more about cabinet work and interior furniture? Woods II is a class in which we take an in-depth look at how kitchen cabinets and interior furniture is designed and constructed. Through a standard class project, students will learn how to create cabinet doors, install and create cabinet drawers, laminate a counter top, various fastening methods, along with the finishing process. Students will also perform routine maintenance on all fine wood-working equipment. Students will be responsible for designing, constructing, and finishing a project that accurately reflects the concepts that were learned through standard class project. A student who has an interest in design or construction, specifically the field of finish carpentry should consider taking this class. Students interested in pursuing a construction career path may consider taking prep trades and construction trades as well. Units of Study include: Safety, Equipment Maintenance, Cabinet Construction, Finishing Techniques, Precision Measurement Tools, Laminate Processes, Blue Print Design, and Project Estimation. Note: The base supply fee of $40 covers standard projects; individual student project supply costs will vary.

# World Language




**FRENCH I (WLA1111-1112)** **1.0 credit, S1 and S2** **9-12**
**Description**: Focus on communicating in French on introductory topics with comparisons to the French-speaking world.

**FRENCH II (WLA1121-1122)** **1.0 credit, S1 and S2** **9-12**
**Prerequisite | French I**
**Description**: Continue building on reading, writing, listening, and speaking in French through cultural exploration of the Francophone world, with an emphasis on France.

**FRENCH III (WLA2111-2112)** **1.0 credit, S1 and S2** **10-12**
**Prerequisite | French II**
**Description**: Students improve their proficiency in spoken and written French, and deepen their listening and reading comprehension skills, through further exploration of the Francophone world.

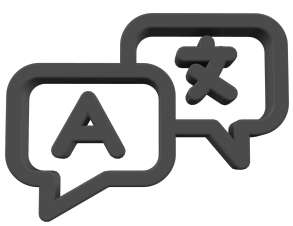
**FRENCH IV (WLA3111-3112)** **1.0 credit, S1 and S2** **11-12**
**Prerequisite | French III**
**Description**: Students will listen, read, write, and speak predominately in French to further deepen their language proficiency and cultural competence. Grammar skills are emphasized to support greater proficiency and lay the foundation for success in French 5 (dual credit).

# World Language

**FRENCH V (DC) (WLA4111-4112)** **1.0 credit, S1 and S2** **12**
**Prerequisite | French IV**
**Description**: Description: Improve proficiency while studying the French-speaking world. CAPP (college credit) is an OPTION for this course, not a requirement. Qualified juniors and seniors may earn 5 college credits through CAPP. An additional 11 credits may be earned retroactively upon enrollment in the UW system if a grade of 83% or better is earned when the two semesters are averaged together. Additional four-year universities may offer retroactive credit, please check with the individual university. All dual credit options are dependent upon appropriate teacher certification and may change with changes in staffing. Find more information about this dual-credit option through UW-Oshkosh CAPP. Cost of tuition paid by the student/student family. Tuition is charged by UW-Oshkosh for students who enroll in the courses and choose the CAPP option.

**MANDARIN CHINESE I (WLA1211-1212)** **1.0 credit, S1 and S2** **9-12**
**Description**: In Mandarin Chinese I, students will learn Chinese language for specific purposes in a variety of situations with ever-increasing linguistic and cultural accuracy. Students will begin learning both spoken and written aspects of the language. As written Chinese is very different from English, a good amount of time will be spent learning the foundation of written language within the context of the spoken language. Students will learn culturally relevant information about various themes and be able to talk about them in different ways. Students will begin to acquire cultural knowledge and culturally appropriate interaction skills essential for basic communication and begin to develop real-life uses for Chinese within the community. Students will develop insights into their own language and culture through linguistic as well as cultural comparisons with the Chinese language and culture. Students will become aware of the use of Chinese in their community and will access Chinese cultural learning material through technology. Students should expect to actively participate and to have daily homework to practice their skills, frequent quizzes, and performance assessments in all skills: listening, speaking, reading, and writing.

**MANDARIN CHINESE II (WLA1221-1222)** **1.0 credit, S1 and S2** **9-12**
**Prerequisite | Mandarin Chinese I**
**Description**: Mandarin Chinese II is a continuation of Mandarin Chinese level I where students will further develop their skills in listening, reading, speaking, and writing with an emphasis on communication skills in “real world” situations in greater depth. This year students will become more capable of using their own language skills in various situations with increased complexity. Students will continue to focus on developing verbal and written skills through a variety of activities and projects. The theme of level two is "empowering". Students will learn culturally relevant information with the theme of "being empowered" and will be able to talk about them in different ways. Students will begin to acquire cultural knowledge and culturally appropriate interaction skills essential for basic communication and begin to develop real-life uses for Chinese within the community. Students will develop insights into their own language and culture through linguistic as well as cultural comparisons with the Chinese language and culture. Students will become aware of the use of Chinese in their community and will access Chinese cultural learning material through technology. Students should expect to actively participate and to have daily homework to practice their skills, frequent quizzes, and performance assessments in all skills: listening, speaking, reading, and writing.



# World Language

**MANDARIN CHINESE III (WLA2211-2212)** **1.0 credit, S1 and S2** **10-12**
**Prerequisite | Mandarin Chinese II**
**Description**: Mandarin Chinese III is a continuation of Mandarin Chinese level II where students will further develop their skills through listening, reading, speaking, and writing with an emphasis on communication skills in "real world" situations in greater depth. This year students will become more capable of using their own language skills in various situations with increased complexity. Students will continue to focus on developing verbal and written skills through a variety of activities and projects. The theme of level three is "the thinker." This year students will learn about Chinese philosophies and how they connect to themselves and to the world. Students will learn culturally relevant information through texts that include moral and philosophical thought and will able to talk about them in different ways. Students will begin to acquire cultural knowledge and culturally appropriate interaction skills essential for basic communication and begin to develop real-life uses for Chinese within the community. Students will develop insights into their own language and culture through linguistic as well as cultural comparisons with the Chinese language and culture. Students will become aware of the use of Chinese in their community and will access Chinese cultural learning material through technology. Students should expect to actively participate and to have daily homework to practice their skills, frequent quizzes and performance assessments in all skills: listening, speaking, reading, and writing.

**MANDARIN CHINESE IV (WLA3211-3212)** **1.0 credit, S1 and S2** **11-12**
**Prerequisite | Mandarin Chinese III**
**Description**: This course builds on language skills developed in Mandarin Chinese I, II, and III. The course will complete and review basic grammar and key sentence patterns of Chinese, provide practice in the appropriate use of idiomatic expressions, and further develop skill in reading and writing Hanzi (Chinese characters). It will also build vocabulary, expand reading comprehension, and encourage extensive conversation in Chinese. It will cover additional aspects about Chinese culture and history.

**MANDARIN CHINESE V (WLA4211-4212)** **1.0 credit, S1 and S2** **12**
**Prerequisite | Mandarin Chinese III**
**Description**: Based on Mandarin Chinese IV, this course continually improves students' reading, writing, speaking, and listening skills, with extra emphasis placed on speaking and writing proficiency. It also intends to deepen students' knowledge of Chinese language, culture and history.

**SPANISH I (WLA1011-1012)** **1.0 credit, S1 and S2** **9-12**
**Description**: Focus on communicating in Spanish about topics that are relevant to students and their lives. Cultural comparison with Mexico.

**SPANISH II (WLA1021-1022)** **1.0 credit, S1 and S2** **9-12**
**Prerequisite | Spanish I**
**Description**: Continue building skills of reading, writing, listening, and speaking in Spanish through a focus on Spain.

**SPANISH III (WLA1031-1032)** **1.0 credit, S1 and S2** **9-12**
**Prerequisite | Spanish II**
**Description**: Students improve their proficiency in the language by applying it in a variety of ways. Cultural focus in South America.

**SPANISH IV (WLA2011-2012)** **1.0 credit, S1 and S2** **10-12**
**Prerequisite | Spanish III**
**Description**: Tour the Caribbean and explore issues Latinos face. Read, write, speak, and listen predominately in SPANISH!

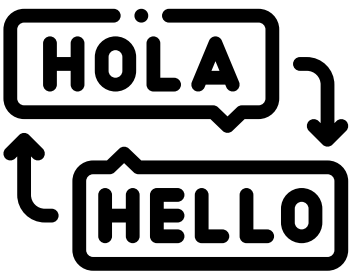
# World Language

**SPANISH V (DC) (WLA3011-3012)** **1.0 credit, S1 and S2** **11-12**
**Prerequisite | Spanish IV**
**Description**: Improve proficiency while studying the Spanish-speaking world. CAPP (college credit) is an OPTION for this course, not a requirement. Qualified juniors and seniors may earn 5 college credits through CAPP. An additional 11 credits may be earned retroactively upon enrollment in the UW system if a grade of 83% or better is earned when the two semesters are averaged together. Additional four-year universities may offer retroactive credit, please check with the individual university. All dual credit options are dependent upon appropriate teacher certification and may change with changes in staffing. Find more information about this dual-credit option through UW-Oshkosh CAPP. Tuition is charged by UW-Oshkosh for students who enroll in the courses and choose the CAPP option.

**SPANISH VI (DC) (WLA4011-4012)** **1.0 credit, S1 and S2** **12**
**Prerequisite | Spanish V**
**Description**: An advanced grammar, literature, composition, and conversation course situated in the Spanish-speaking world. CAPP (college credit) is an OPTION for this course, not a requirement. Qualified seniors may earn 5 college credits through CAPP. To receive CAPP credit for Spanish VI, Spanish V for CAPP credit must have been successfully completed. All dual credit options are dependent upon appropriate teacher certification and may change with changes in staffing. Find more information about this dual-credit option through UW-Oshkosh CAPP. Tuition is charged by UW-Oshkosh for students who enroll in the courses and choose the CAPP option.

**SPANISH LANG ARTS I (WLA1051-1052)** **1.0 credit, S1 and S2** **9-10**
**Description**: (Formerly Spanish for Heritage Speakers). This course is designed to help freshman and sophomore heritage and native Spanish/English speakers develop both language and cultural bi-literacy in an environment where students' background knowledge and personal experiences are valued and utilized. Students will refine their communication skills with project based activities based on themes and individual goals. Prerequisites: Advanced fluency in oral Spanish and desire to become bi-literate. This course may be repeated.

**SPANISH LANG ARTS II (WLA3051-3052)** **1.0 credit, S1 and S2** **11-12**
**Description**: This course is designed to help junior and senior heritage and native Spanish/English speakers develop both language and cultural bi-literacy in an environment where students' background knowledge and personal experiences are valued and utilized. Students will refine their communication skills with project based activities based on themes and individual goals. Prerequisites: Advanced fluency in oral Spanish and desire to become bi-literate. This course may be repeated.



# Programs of Study

The modernized Framework reflects the needs of both employers and learners. With its industry-centered language, purpose-driven groupings, interdisciplinary nature, and inclusion of all aspects of the modern world of work, the Framework seeks to transform career readiness in CTE and beyond. When its innovations are fully implemented, the Framework has the potential to transform:

- Pathways to be more personalized and better meet the needs of learners, industry, and communities.
- Systems by breaking down silos between sectors, disciplines, and systems.
- Lives by preparing learners of all ages and backgrounds for dynamic and high-opportunity careers

Source: Advance CTE, December 2025

## Transition to a New Framework

# Advanced Manufacturing

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## ENGINEERING PATH

IDEA, Big IDEA, Intro to Engineering Design, Digital Electronics, Principles of Engineering, Engineering Design & Development

## INDUSTRIAL MACHINERY PATH

Metal Technology, Metal Fabrication, Welding, IDEA, Big IDEA, Woods I & II, Ag Machine & Building, Computer Science I and II, Chemistry

## PRODUCTION & AUTOMATION PATH

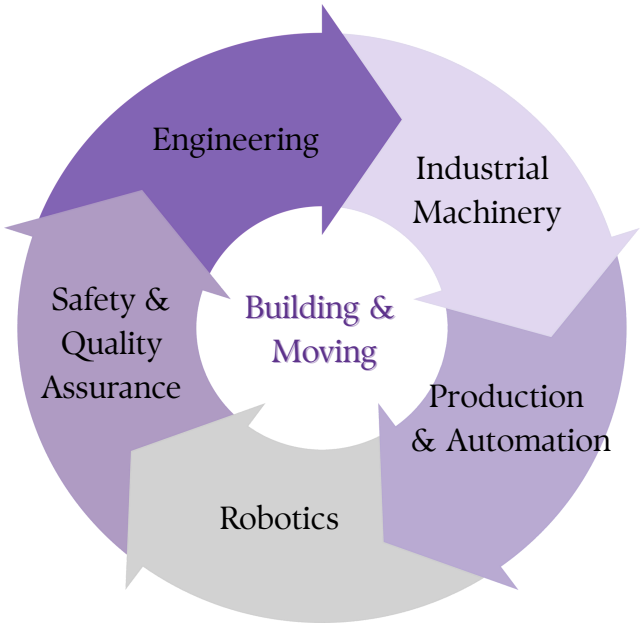
Metal Technology, Metal Fabrication, Welding, IDEA, Big IDEA, Digital Electronics, Computer Science I and II, Chemistry

## ROBOTICS PATH

IDEA, Big IDEA, Digital Electronics, Computational Thinking, Computer Science I & II, AP Comp Sci Principles - Cybersecurity, AP Comp Sci A, FST, AP Calculus, Chemistry

## SAFETY & QUALITY ASSURANCE PATH

Intro to Engineering Design, MS Office for Bus Apps (DC), Marketing 1 (DC), Management & Ethics, Computer Science I & II, Chemistry




The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation and artificial intelligence, equipment maintenance, safety protocols, and quality control. This Cluster aims to increase efficiency, reduce waste, ensure safety, and produce high-quality goods, driving the industry's growth and adapting to modern demands.

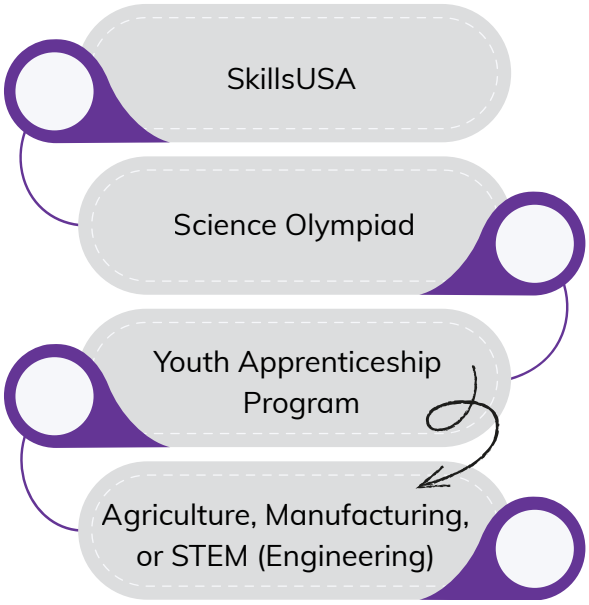
WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

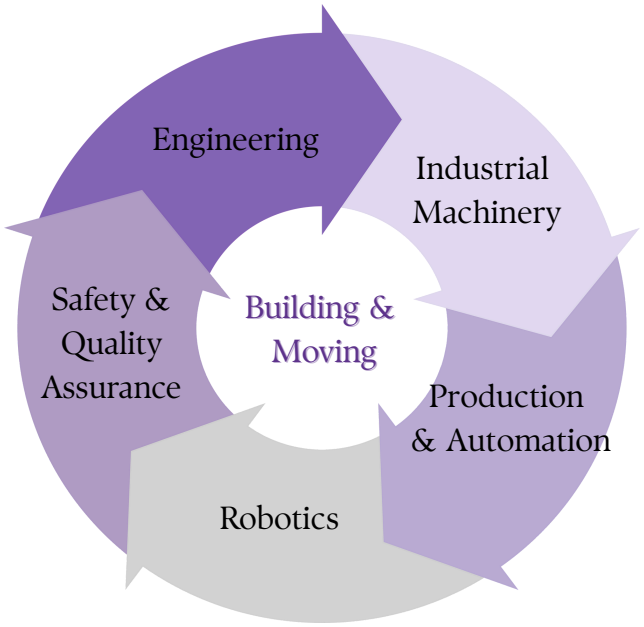
## RECOMMENDED FOR ALL ADVANCED MANUFACTURING PATHS

- Concepts of Entrepreneurship (DC)
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Advanced Algebra, Geometry, Intro to Stats/ AP Statistics, Pre-Calculus (for any degree that requires Calculus
- Physics, Physics II
- Economics/AP Economics, AP US Government & Politics, Exploring Wisconsin, Issues in Psych
- 2 years of any language

# Advanced Manufacturing

**Recommended Student Organizations, Career Experiences, and Work Based Learning**




**TECHNOLOGY**
& ENGINEERING

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Advanced Fabrication
- Advanced Industrial Maintenance
- Advanced Manufacturing Tech
- Advanced Pipe Welding
- Appliance Technician
- Automated Manufacturing Tech
- Automation Engineering Tech
- Basic Machining
- CAD Technician
- CNC Operator
- Electrical Maintenance
- Flux Cored Arc Welding
- Gas Metal Arc Welding
- Industrial Engineering
- Industrial Maintenance Mechanic
- Industry 4.0 Applications
- Intro to CNC Milling
- Intro to Industrial Welding
- Intro to Precision Machining
- Machine Repair Apprentice
- Machine Tool Operation
- Maintenance Technician
- Manufacturing Fundamentals
- Marine Systems
- Mechanical CAD Drafting
- Mechatronics Specialist
- Metal Fabrication
- Quality Control Technology
- Robotic Weld Technician
- Tool and Die Making
- Welding Technician
- Woodworking Technology

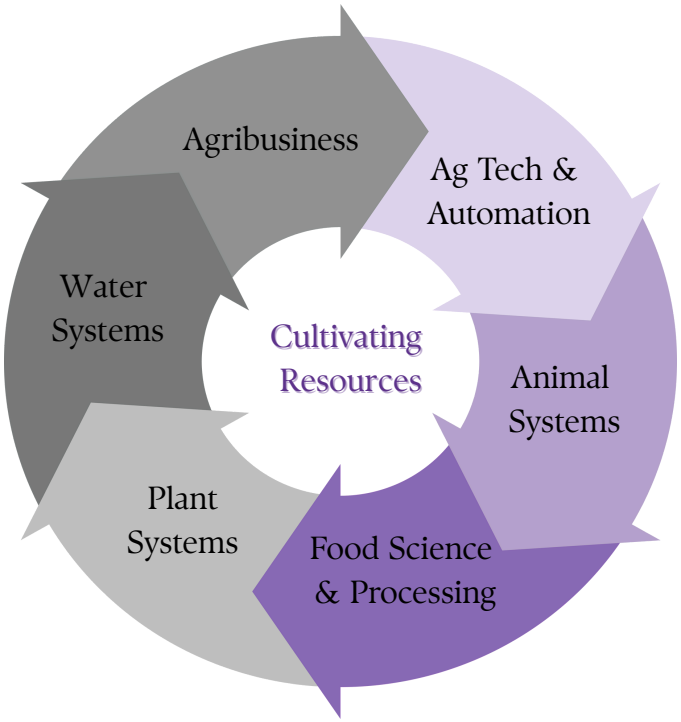
For a comprehensive list and detailed information, visit WTCS Manufacturing Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Applied Engineering Technology Management
- Automation Leadership
- Advanced Automation & Robotics
- Assistive Systems and Robotics Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Technology Management
- Industrial & Systems Engineering
- Manufacturing Engineering Systems
- Manufacturing Engineering
- Mechanical Engineering
- Plastics Engineering
- Production & Manufacturing Management
- Quality Management

For a comprehensive list, visit UW-Help Manufacturing Program

# Agriculture




**Essential Program Learning Experiences**

Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## AGRIBUSINESS PATH

Ag Business, Ag Machine & Building, Accounting (DC), MS Office for Business Applications (DC), Concepts of Entrepreneurship (DC), Marketing 1 (DC)

## AG TECH & AUTOMATION PATH

Ag Machine & Building, Metal Technology, Metal Fabrication, Welding, Basic Home & Auto Maintenance, Small Engine Tech, Auto Mechanics, IDEA, Big IDEA

## ANIMAL SYSTEMS PATH

Intro to Ag, Animal Science, Livestock & Equine Management, Vet Science, Small Animal & Pet Care, Biotech Career Apps (DC), Biotechnology (DC), Medical Terminology (DC), AP Biology

## FOOD SCIENCE & PROCESSING PATH

Food Science, Biotech Career Apps (DC), Biotechnology (DC), Any Culinary Class

## PLANT SYSTEMS PATH

Intro to Agriculture, Natural Resources I, Natural Resources II, Plant Science, Landscaping Design, Ecology I and II

## WATER SYSTEMS PATH

Natural Resources I, Natural Resources II, Biotech Career Apps (DC), Biotechnology (DC), Ecology I and II

The Agriculture Career Cluster concentrates on scientific advancement of agriscience, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems. This Cluster also supports other plant- and animal-based industries including regenerative agriculture, sustainable logging, and fisheries. This Cluster has meaningful connections with the Energy and Natural Resources Cluster, highlighting a symbiotic relationship that emphasizes stewardship and resilient communities.

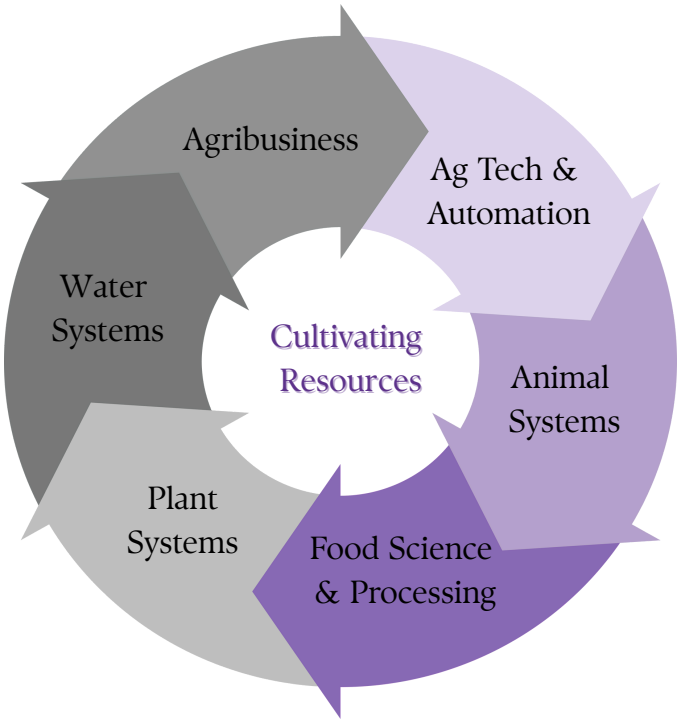
WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

## RECOMMENDED FOR ALL AG PATHS

- Any Agriculture Class
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Intro to Stats/AP Statistics
- Exploring Wisconsin, Economics/AP Economics, Social Problems, Modern Global Studies, AP US Government & Politics
- 2-3 years of any language

# Agriculture

## Recommended Student Organizations, Career Experiences, and Work Based Learning




AGRICULTURE
EDUCATION

### Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Agribusiness Agronomy Techician
- Agribusiness Science & Technology
- Agricultural Equipment Technology
- Agricultural Power & Equipment Tech
- Agronomy Management
- Animal Science
- Arborist Technician
- Crops and Soil Technician
- Dairy and Livestock Technician
- Dairy Automation
- Dairy Business Management
- Dairy Herd Management
- Dairy Science Management
- Environmental Engineering Tech
- Environmental Health & Water Quality Tech
- Equine Fundamentals
- Farm Business & Production Management
- Garden to Market Specialist
- Greenhouse Operations
- Horticulture/Landscape Specialist
- Landscape Horticulture
- Landscape, Plant, & Turf Management
- Precision Ag Technology
- Sustainable Food & Ag Systems
- Utility Tree Trimmer
- Vet Assistant
- Vet Technician

For a comprehensive list and detailed information, visit WTCS Agriculture Program

### University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Agricultural and Applied Economics
- Agricultural Business Management
- Agricultural Engineering
- Agroecology
- Agronomy
- Animal and Veterinary Biosciences
- Animal Science
- Dairy and Food Animal Management
- Dairy Science
- Farm and Industry Short Course
- Horticulture
- Nutritional Sciences
- Organic Agriculture
- Plant Pathology
- Plant Science & Technology
- Soil and Crop Science

For a comprehensive list, visit UW-Help Agriculture Program

# Arts, Entertainment, & Design

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## DESIGN & DIGITAL ART PATH

Photoshop, Photoshop II, Graphic Design, Drawing & Printmaking, Print Publications, Game Design, Video Editing & Digital Design

## FASHION & INTERIORS PATH

Fashion & Fabrics, Creative Fashions, Interior & Housing Services, Arch Drafting

## FINE ARTS PATH

Any Art Class, Any Music Class

## LIGHTING & SOUND TECH PATH

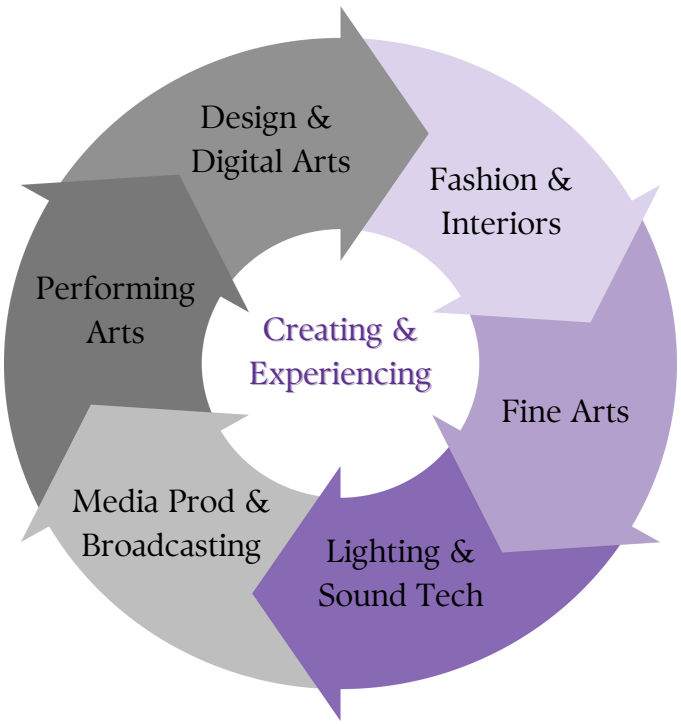
Video Editing & Digital Design, Mass Media, Sports Media Production, Digital Music Production, Music Theory & Composition, The Music Workshop

## MEDIA PROD & BROADCAST PATH

Graphic Design, Photoshop, Photoshop II, Speech, Persuasion & Debate, Sports Media Production, Intro to Statistics, AP Statistics, Print Publications

## PERFORMING ARTS PATH

Dramatic Literature, Persuasion & Debate, Any Music Course




The Arts, Entertainment, & Design Career Cluster combines creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This Cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

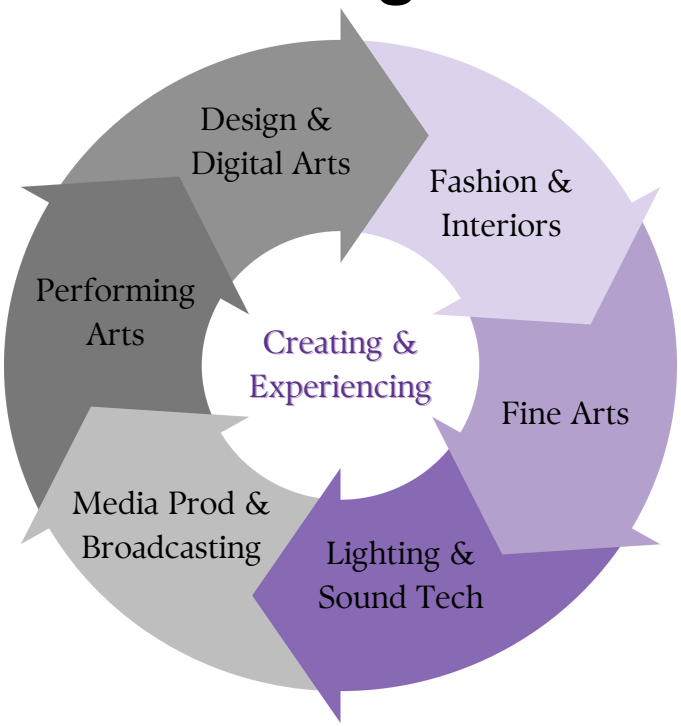
## RECOMMENDED FOR ALL ARTS, ENTERTAINMENT, & DESIGN PATHS

- Any Art Class
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Any Music Class
- 2 years of any language

# Arts, Entertainment, & Design

**Recommended Student Organizations, Career Experiences, and Work Based Learning**

- FBLA, SkillsUSA, FCCLA, Forensics, Art Club, Drama Club, One Act
- Warrior Media Internship, Music Groups, Purple Sage
- Youth Apprenticeship Program
- Arts, AV & Communication




**FAMILY & CONSUMER**
SCIENCE EDUCATION

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- 3D Art and Animation
- Animation
- Audio Engineer
- Design and Graphic Software
- Digital Imaging
- Digital Media
- Digital Photography
- Digital Print Design
- Digital Video Production
- Front End Web Developer
- Graphic and Web Design
- Graphic Communication Technologies
- Interior Design
- Internet Graphic Design
- Multimedia & Computer Arts
- Music Occupations
- Photography Specialist
- Print Production
- Production Artist
- Professional Communication
- Professional Floral Design
- Television and Video Production
- User Experience and Interaction Design (UX/ID)
- Video Audio Design
- Video Production
- Visual Design Fundamentals
- Web and Digital Media Design

For a comprehensive list and detailed information, visit WTCS Arts/AV Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Animation & Digital Media
- Arts Administration & Entrepreneurship
- Art Education
- Art History
- Arts Management
- Dance
- Design & Visual Communication
- Digital Arts & Culture
- Digital Fabrication & Design
- Game Design & Development
- Graphic Design & Interactive Media
- Film
- Fine Arts
- Interior Design
- Journalism
- Musical Theatre
- Studio Art
- Textiles & Fashion Design
- Theatre Design & Technology
- Video Production

For a comprehensive list, visit UW-Help Arts/AV Program

# Construction

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## ARCHITECTURE & CIVIL ENGINEERING PATH

Architectural Drafting, Any Engineering Course Physics, Physics II

## CONSTRUCTION PLANNING & DEVELOPMENT PATH

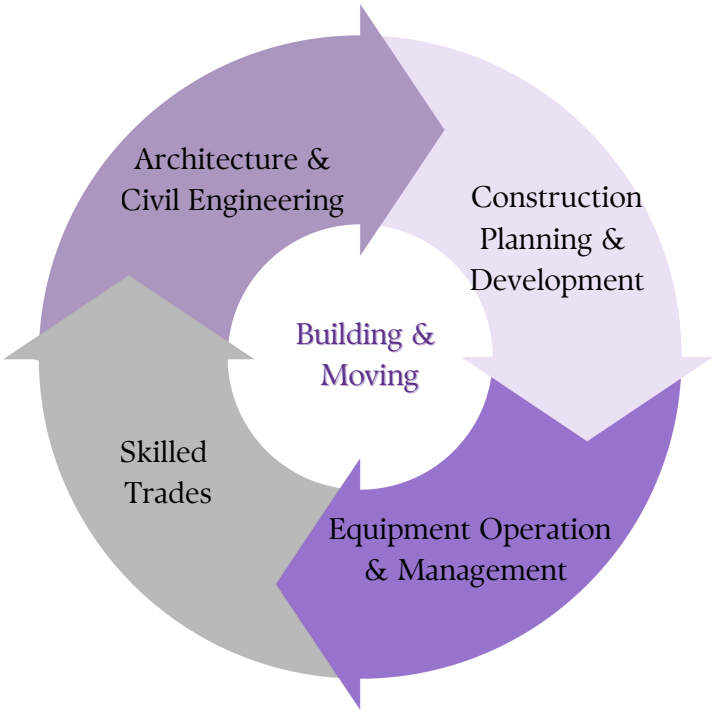
Ag Machine & Building, Construction I, Construction II, Architectural Drafting

## EQUIPMENT OPERATION & MANAGEMENT PATH

Ag Machine & Building, Construction I, Construction II, Management & Ethics

## SKILLED TRADES PATH

Small Engine Technology, Auto Mechanics, Metal Technology, Welding, Metal Fabrication, Advanced Algebra, Geometry, Chemistry, Physics




The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure that structures are both environmentally responsible and resilient. Careers in this Cluster are pivotal in creating durable infrastructure that meets present needs without compromising future generations' ability to meet their own, covering a range of roles from architects and engineers to construction managers and skilled tradespeople.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

## RECOMMENDED FOR ALL CONSTRUCTION PATHS

- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Any Music Class
- Intro to Stats/AP Statistics
- 2 years of any language
- Economics/AP Economics, Sociology, Social Problems, AP US Government & Politics, Issues in Psychology, AP Psychology
- Basic Home & Auto Maintenance, Woods I, Woods II, Principles of Engineering, IDEA, Big IDEA

# Construction

## Recommended Student Organizations, Career Experiences, and Work Based Learning

- FFA & SkillsUSA
- Science Olympiad
- Youth Apprenticeship Program
- Architecture & Construction

## Wisconsin Technical College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Architectural Design and Technology
- Architectural Design Software
- Architectural Technician
- Architectural Technology
- Architectural Woodworking and Cabinetmaking
- Boiler Operator
- Bricklaying
- Building Automated Systems
- Building Construction and Cabinetmaking
- Building Trades - Carpentry
- Computer Aided Design (CAD) Technician
- Conrete Finishing
- Construction and Remodeling
- Construction Management - Electricity
- Construction Project Coordinator
- Construction, Small Business Management
- Drafting Technician
- Electrical Maintenance
- Gas Utility Construction & Serv
- HVAC Installer
- Industrial Wiring
- Ironworker Apprentice
- Millwright - Pipefitter
- Plumbing
- Refrigeration
- Sheet Metal Construction
- Steamfitting Service Apprentice
- Telecom Fiber Optic
- Engineering Technician
- Wood Industry: Mill Technology

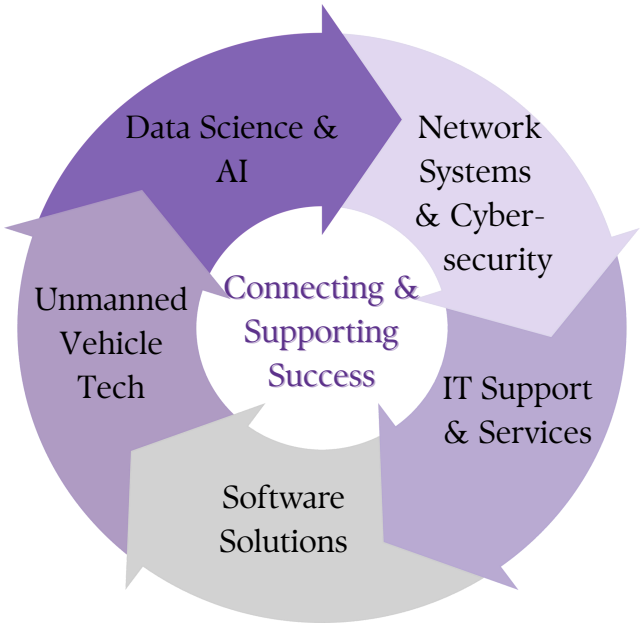
For a comprehensive list and detailed information, visit WTCS Construction Program

## University of Wisconsin College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Architectural Studies
- Architecture
- Building Enclosure Commissioning
- Civil Engineering
- Construction Engineering & Management
- Construction Management
- Construction Safety Management
- Environmental Engineering
- Interior Architecture
- Interior Design
- Landscape Architecture
- Landscape & Urban Studies

For a comprehensive list, visit UW-Help Construction Program

# Digital Technology




**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## DATA SCIENCE & AI PATH

Algebra, AP Calculus AB, Intro to Stats, AP Stats, Persuasion & Debate, Computational Thinking, AP Comp Sci A, AP Comp Sci Principles - Cybersecurity

## NETWORK SYSTEMS & CYBERSECURITY PATH

Intro to Discrete Math, Physics, Algebra, AP Comp Sci Principles - Cybersecurity

## IT SUPPORT & SYSTEMS PATH

MS Office Basics, MS Office for Business Applications (DC), Marketing 1 (DC), Web Design, Algebra, Geometry, Physics

## SOFTWARE SOLUTIONS PATH

Web Design, Digital Electronics, Intro to Discrete Math, Intro to Stats, AP Stats, AP Calculus AB, Sports Media Production

## UNMANNED VEHICLE TECH PATH

Physics, Physics II, IDEA, Big IDEA, Digital Electronics, Principles of Engineering, Chemistry, Weather & Climate, Small Engine Tech, Auto Mechanics

The Digital Technology Career Cluster focuses on developing digital systems for communication and data storage using critical technologies such as artificial intelligence (AI), data analytics, and cybersecurity. This Cluster builds skills necessary for all careers to navigate and lead in the constantly evolving tech landscape and drives innovation across all industries to tackle complex challenges and opportunities in communities and economies.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

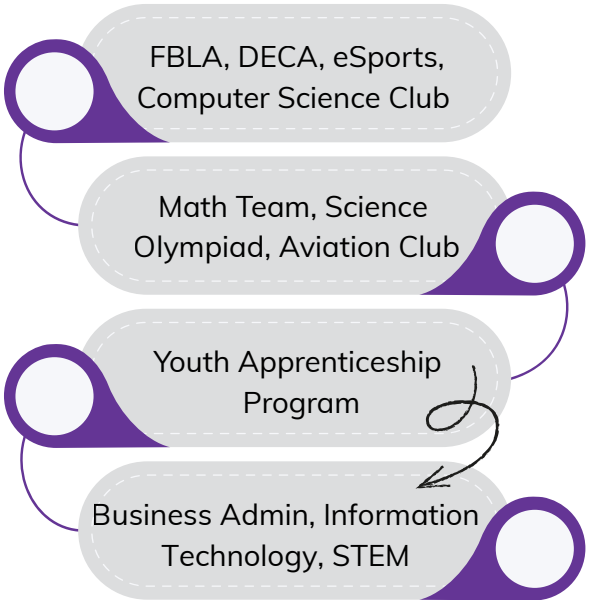
## RECOMMENDED FOR ALL DIGITAL TECH PATHS

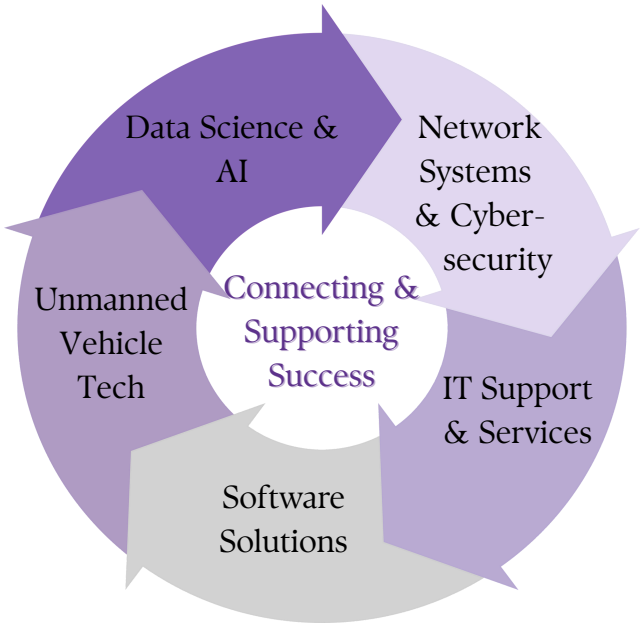
- Any Computer Science Class
- Pre-Calculus
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Any Music Class
- 2 years of any language
- Economics/AP Economics, Issues in Psychology, AP Psychology, Sociology, AP US Government & Politics
- Any Digital Art Class, Print Publications

This Career Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

# Digital Technology

**Recommended Student Organizations, Career Experiences, and Work Based Learning**




**BUSINESS & INFO TECHNOLOGY**

## Wisconsin Technical College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- AI Technician
- CAE2Y Cybersecurity
- Cisco Networking Academy
- Computer Simulation and Gaming
- Cybersecurity
- Data Analytics and Visualization
- Database Server Administrator
- Enterprise Support Technician
- IT - Computer Support Specialist
- IT - Cybersecurity Specialist
- IT - Network Technician
- IT - Security Manager
- IT - Support Technician
- IT - Technical Support Specialist
- IT - Web and Software Developer
- IT - Web Design
- IT - Web Programmer
- Java Programming
- Level 2 - Service Center Technician
- Microsoft Office Essentials
- Office Software Specialist
- Python Certificate
- Report Analyst
- Servers and Networking
- Software Specialist
- Storage and Virtualization Administrator
- Unity Developer
- Web Programmer Certificate

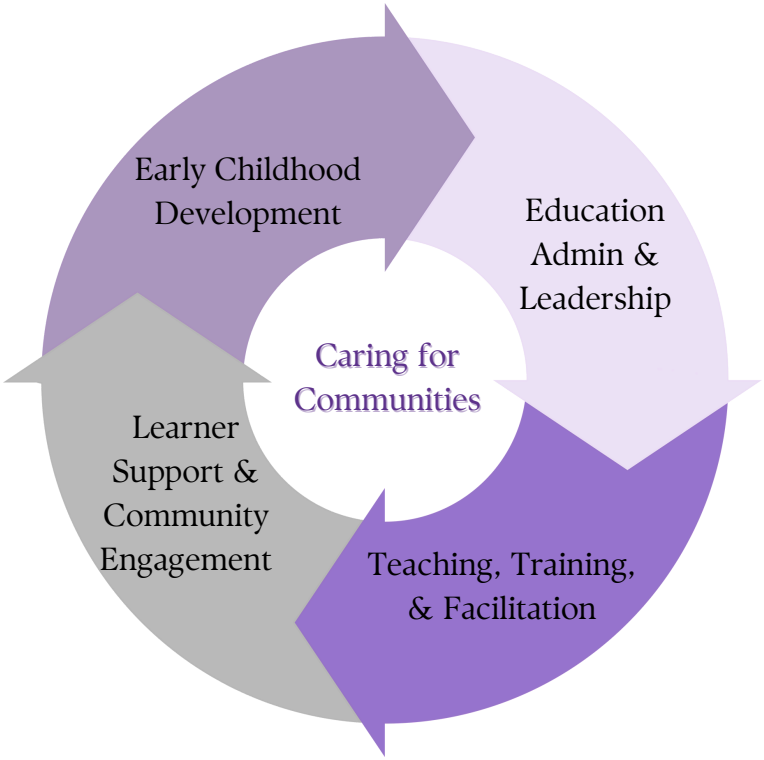
For a comprehensive list and detailed information, visit WTCS Info Tech Program

## University of Wisconsin College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Analytics/Data Management
- Application Development
- Applied Computing
- Computer Information Systems
- Cybersecurity
- Digital Arts & Culture
- Digital Marketing Technology
- Enterprise Infrastructur
- Health Care Informatics
- Information Science & Technology
- Information Science & Technology
- Information Systems
- Information Technology & Data Science
- Information Technology Management
- IT Operations
- IT Security and Networking
- Management Information Systems
- Networking
- User Experience (UX) Design
- Web Development

For a comprehensive list, visit UW-Help Info Tech Program

# Education




**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## EARLY CHILDHOOD DEVELOPMENT PATH

Child Care I and II

## EDUCATION & ADMINISTRATIVE LEADERSHIP PATH

MS Office Basics, MS for Office Applications (DC), Persuasion & Debate

## TEACHING, TRAINING, & FACILITATION PATH

Child Care I & II, Web Design, Intro to Stats, AP Stats, Unified Physical Education

## LEARNER SUPPORT & COMMUNITY ENGAGEMENT PATH

MS Office Basics, MS Office for Business Applications (DC), Persuasion & Debate

The Education Career Cluster spans careers aimed at fostering learning from early childhood to adulthood, including teaching, instructional design, counseling services, community engagement, learner support, and educator training. This Cluster emphasizes quality education standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking and encouraging personal and societal growth in a constantly evolving world.

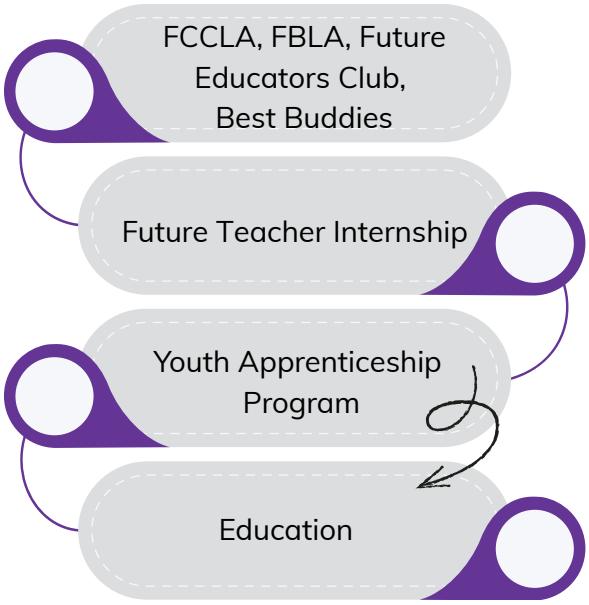
WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

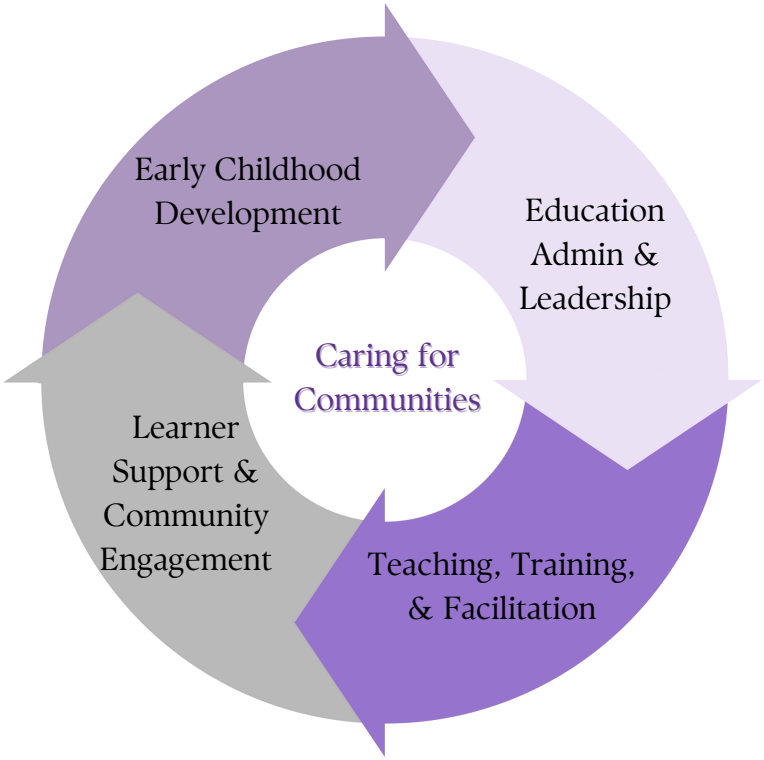
## RECOMMENDED FOR ALL EDUCATION PATHS

- Intro to Education & Teaching, Education in a Pluralistic Society, Personal Relationships
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Any Music Class
- 3-4 years of any language
- Sociology, Issues in Psychology, AP Psychology, Social Problems, America in Conflict, Economics/AP Economics, Exploring Wisconsin, Modern Global Studies, AP European History, AP US Government & Politics
- NOTE: Every department class may be recommended that matches a student's teaching content (e.g. Math teacher, all math courses are relevant, Ag teacher, all ag courses are relevant)

# Education

## Recommended Student Organizations, Career Experiences, and Work Based Learning




**FAMILY & CONSUMER SCIENCE**

### Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Assistant Teacher
- Autism for Educators
- Basic Early Childhood Educator
- Behavior Technician
- Career and Technical Education Instructor
- Child Care Administrator
- Childcare Teacher
- Driver Safety Education Certification
- Early Childhood Education
- Educational Assistant
- Family Child Care
- Guiding and Supporting Children
- Infant/Toddler
- Instructional Assistant
- Instructional Strategies
- Library & Information Services
- Library Director
- Paraeducator
- Preschool
- Sign Language Interpreting in Education
- Special Education Certificate
- Substance Abuse Education
- Teaching English as a Second or Foreign Language
- Work Readiness

For a comprehensive list and detailed information, visit WTCS Education Program

### University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Curriculum & Instruction
- Curriculum and Instruction
- Early Childhood
- Educational Leadership and Policy Analysis
- Educational Policy Studies
- Educational Psychology
- Educational Specialist
- Elementary Education
- English as a Second Language
- Human Services Leadership
- School Librarian
- Secondary Education
- Special Education

For a comprehensive list, visit UW-Help Education Program

# Energy & Natural Resources

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## CLEAN & ALT ENERGY PATH

Chemistry, Physics, Metal Technology, Metal Fabrication (DC), Welding (DC), Digital Electronics, Management & Ethics

## CONSERVATION & LAND MANAGEMENT PATH

Chemistry, Weather & Climate, AP Environmental Science (online), Management & Ethics

## ECOLOGICAL RESEARCH & DEV PATH

Chemistry, Physics, AP Biology, AP Calculus, Geology, Computer Science I & II, AP Environmental Science (online)

## ENVIRONMENTAL PROTECTION PATH

Chemistry, Physics, AP Stats, AP Calculus, AP Environmental Science (online), Geology, Intro to Ag, Computer Science I & II

## RESOURCE EXTRACTION PATH

Chemistry, Physics, Geology, Engineering Classes, AP Environmental Science (online), MS Office for Business Apps (DC), Metal Technology, Metal Fabrication (DC), Welding (DC)

## UTILITIES PATH

FST, Physics, Digital Electronics, Metal Technology, Metal Fabrication (DC), Welding (DC)

The Energy & Natural Resources Career Cluster spans careers in traditional and renewable fuel production, power generation and energy conversion, utilities, environmental preservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, including conservation, transmission, distribution and storage, to minimize environmental impacts and meet global energy needs. Careers in this Cluster are dedicated to creating a sustainable future, innovating cleaner energy solutions, and preserving our planet's natural resources for generations to come.

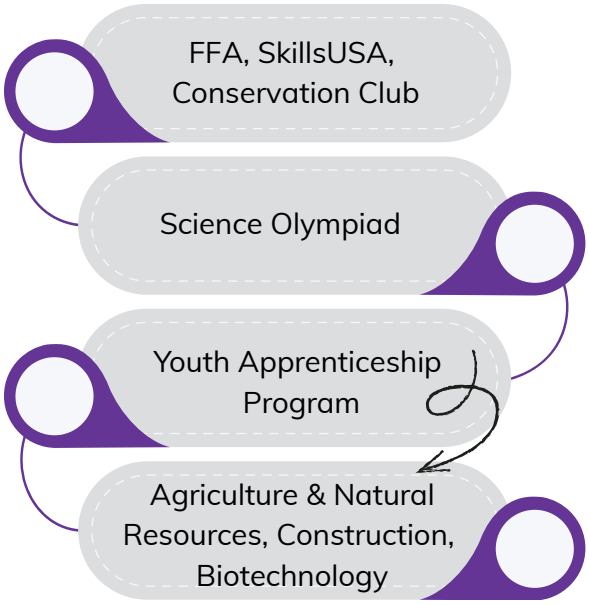
WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

## RECOMMENDED FOR ALL ENERGY & NATURAL RESOURCE PATHS

- Plant Science, Natural Resources I & II, Ag Bus
- Ecology Classes, Biotechnology Classes
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Advanced Algebra, Geometry, Pre-Calculus
- Exploring Wisconsin, Economics/AP Economics, Social Problems, Modern Global Studies, AP US Government & Politics
- 2-3 years of any language

# Energy & Natural Resources

**Recommended Student Organizations, Career Experiences, and Work Based Learning**



AGRICULTURE EDUCATION

## Wisconsin Technical College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Conservation Agronomist
- Environmental Health and Water Quality Tech
- Forest Management Specialist
- Natural Resources Technician
- Renewable Energy - Solar Thermal
- Solar Installation Technician
- Water Quality Technician
- Water Technician Certificate
- Wildland Fire Crew
- Wildland Firefighter

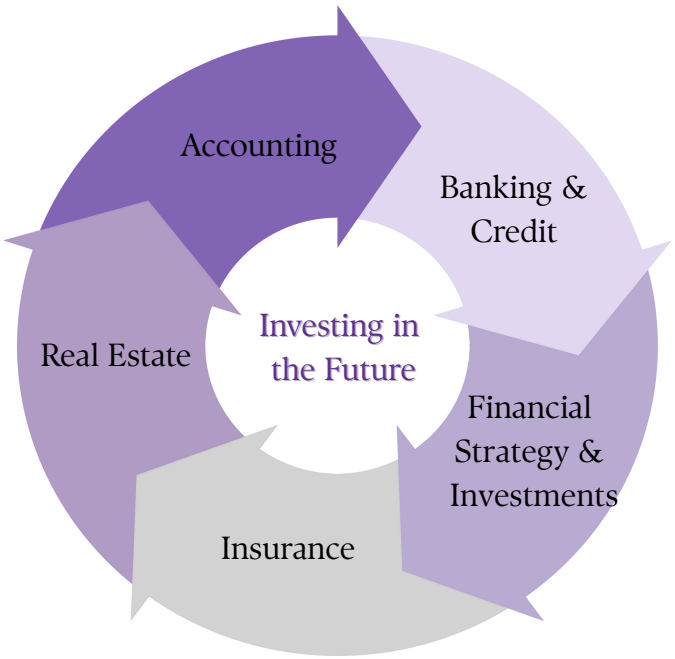
For a comprehensive list and detailed information, visit WTCS Ag Program

## University of Wisconsin College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Bioenergy
- Building Green
- Conservation and Environmental Science
- Energy
- Energy Analysis and Policy (EAP)
- Energy Engineering
- Energy Systems Engineering Technology
- Engineering - Natural Resources and Environmental Systems
- Engineering for Energy Sustainability
- Engineering Thermal Energy Systems
- Environment and Resources
- Environmental Science
- Fisheries and Water Resources
- Forestry
- Natural Resources in Conservation and Leadership
- Soil and Waste Resources
- Sustainability and Renewable Energy Systems
- Sustainable Management
- Water Resources Management
- Wildlife Ecology and Management

For a comprehensive list, visit UW-Help Ag Program

# Financial Services




**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## ACCOUNTING PATH

Accounting Independent Study, Concepts of Entrepreneurship (DC), AP Calculus, Computer Science I & II, AP Computer Science A

## BANKING & CREDIT PATH

AP Calculus, Marketing I (DC), Selling Principles (DC)

## FINANCIAL STRATEGY & INVESTMENTS PATH

Concepts of Entrepreneurship (DC), Marketing I (DC), Selling Principles (DC), AP Calculus, Persuasion & Debate, AP Microeconomics (online), AP Computer Science Principles - Cybersecurity

## INSURANCE PATH

Concepts of Entrepreneurship, Marketing I (DC), Selling Principles (DC), Social Media Marketing (DC), Persuasion & Debate, Computer Science I & II

## REAL ESTATE PATH

Concepts of Entrepreneurship, Marketing I (DC), Selling Principles (DC), Social Media Marketing (DC), Persuasion & Debate, Interior & Housing Services, Architectural Drafting

The Financial Services Career Cluster encompasses careers in managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. These careers contribute to economic stability and growth by supporting the financial health of individuals and organizations.

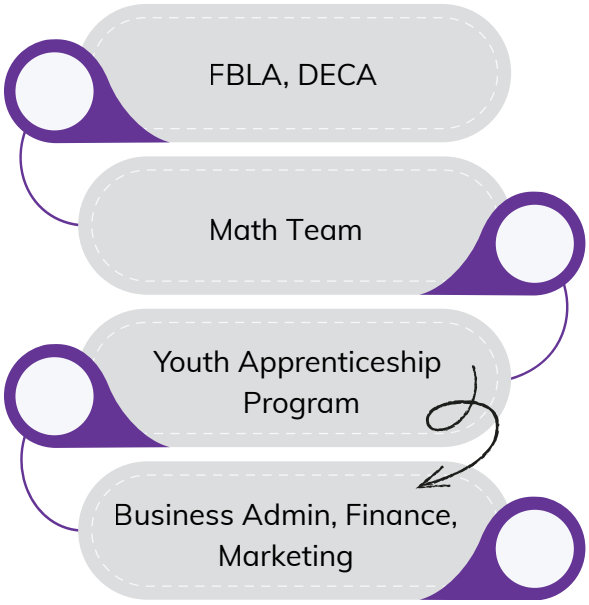
WCHS has created this Career Cluster Program of Study to serve as a guide for all learners, parents, counselors, and faculty members, partnered with other career planning materials, to help learners continue on a career path. Courses listed within the plan are strongly recommended but each plan should be individualized to meet each learner's educational and career goals.

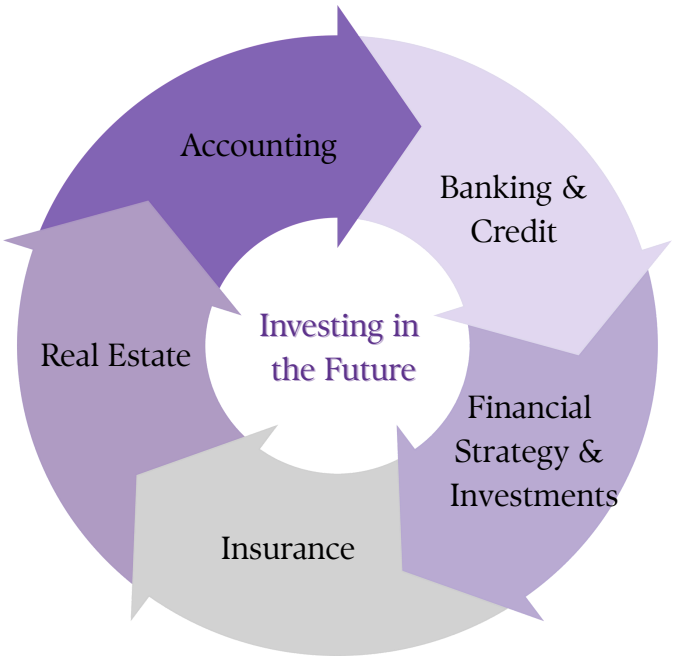
## RECOMMENDED FOR ALL FINANCIAL PATHS

- MS Office for Business Apps (DC), Accounting (DC), Advanced Accounting, Global Business, Management & Ethics
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Intro to Stats, AP Statistics, Pre-Calculus
- Economics/AP Economics, Sociology, AP US Government & Politics, AP Psychology
- 2 years of any language

# Financial Services

**Recommended Student Organizations, Career Experiences, and Work Based Learning**




**BUSINESS & INFO TECHNOLOGY**

## Wisconsin Technical College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Accounting
- Accounting Assistant
- Banking and Financial Services
- Billing and Posting Clerk
- Bookkeeping / Bookkeeper
- Finance
- Financial and Insurance Services Specialist
- Financial Services Customer Representative
- Individual Tax Preparer
- ITC Computerized Accounting
- Managerial Accounting
- Payroll Assistant Certificate
- Quickbooks Specialist
- Small Business Accounting
- Tax Preparer

For a comprehensive list and detailed information, visit WTCS Finance Program

## University of Wisconsin College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Banking
- Business Administration
- Consumer Finance
- Corporate Finance
- Finance
- Financial Economics
- Financial Planning
- Insurance
- Investment
- Personal Finance
- Real Estate

For a comprehensive list, visit UW-Help Finance Program

# Healthcare & Human Services

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## BEHAVIORAL & MENTAL HEALTH PATH

Personal Relationships, Social Problems

## BIOTECH RESEARCH & DEV PATH

Principles of Biomedical Science, Biotech Career Apps (DC), Biotechnology (DC), AP Biology

## COMMUNITY & SOCIAL SERVICES PATH

Child Care I & II, Personal Relationships, Social Problems, Education in a Pluralistic Society (DC), AP US Government & Politics

## HEALTH DATA & ADMIN PATH

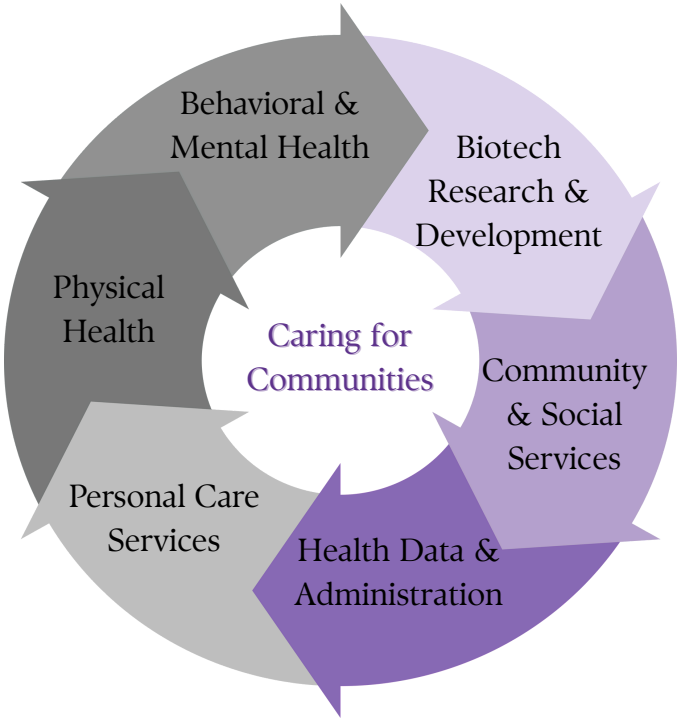
Management & Ethics, Principles of Biomedical Science, Chemistry, Intro to Stats, Global Business, Computer Science I & II

## PERSONAL CARE SERVICES PATH

Concepts of Entrepreneurship (DC), Marketing I (DC), Selling Principles (DC), Social Media Marketing (DC), Personal Relationships

## PHYSICAL HEALTH PATH

Chemistry, AP Biology, Physics, Principles of Biomedical Science, AP Calculus, Persuasion & Debate




The Healthcare & Human Services Career Cluster promotes whole health in individuals and communities through a diverse array of services. This sector includes technical, mental, and therapeutic services and personal care, supported by medical and social sciences. By addressing social determinants of health and leveraging health data and science, this Cluster aims to enhance the overall health and resilience of individuals, families, and communities.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

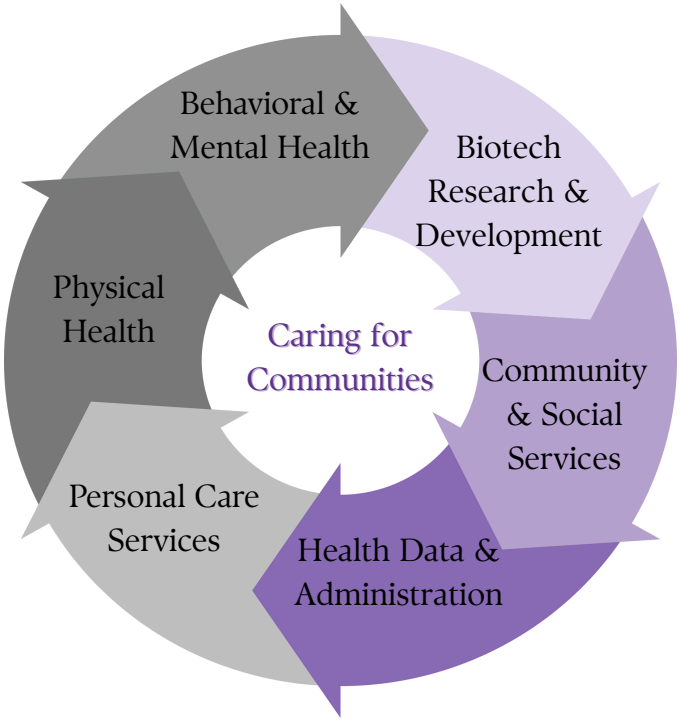
## RECOMMENDED FOR ALL HEALTHCARE & HUMAN SERVICES PATHS

- Any Health Science Class
- Human Anatomy & Physiology I & II
- Advanced Health
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- AP Statistics, Pre-Calculus
- Any Psychology Class, Sociology
- 4 years of any language
- Any Music Class

# Healthcare & Human Services

## Recommended Student Organizations, Career Experiences, and Work Based Learning

- HOSA, FBLA, DECA
- Science Club, NextGen Academies via Madison College
- Youth Apprenticeship Program
- Health Science, Business Administration, Biotech




**HEALTH SCIENCE**

### Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Aesthetician
- Anesthesia Technology
- Barber
- Biotechnology Laboratory Technician
- Cancer Information Management
- Cardiovascular Technology - Echocardiography Careers
- Case Management
- Chiropractic Technician
- Cosmetology
- Critical Care Paramedic
- Dental Hygienist
- Diagnostic Medical Sonography
- Dietary Manager
- EKG Technician
- Funeral Service
- Health and Wellness Technician
- Health Care Leadership - Certificate
- Health Information Technology
- Healthcare Customer Service
- Lab Assistant
- Medical Assistant
- Medical Coder
- Medical Interpreter
- Nail Technician
- Nursing - Associate Degree
- Nursing Assistant (CNA)
- Occupational Therapy Assistant
- Optometric Technician
- Pharmacy Technician
- Phlebotomist - Specimen Processor
- Radiography
- Substance Use Disorder Counseling
- Surgical Technologist
- Therapeutic Massage

For a comprehensive list and detailed information, visit WTCS Health Science or Human Serv Program

### University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Athletic Training
- Biomedical Engineering
- Chiropractic
- Democracy & Justice Studies
- Dentistry
- Doctor of Medicine
- Doctor of Pharmacy
- Genetic Counseling
- Global Health
- Health & Wellness Management
- Health Care Administration
- Health Information Management
- Health Sciences
- Medical Laboratory Science
- Nuclear Medicine Technology
- Nursing
- Occupational Therapy
- Optometry
- Physical Therapy
- Physician Assistant
- Podiatry
- Public Leadership & Innovation
- Radiologic Tech & Sonography
- Social Work

For a comprehensive list, visit UW-Help Health Science or Human Serv Program

# Hospitality, Events, & Tourism

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## ACCOMMODATIONS PATH

Child Care I & II

## CONFERENCES & EVENTS PATH

Any Business Class, Any Digital Art Class

## CULINARY & FOOD SERVICES PATH

Any Culinary Class, Food Science, Chemistry, Accounting (DC)

## TRAVEL & LEISURE PATH

Accounting (DC), Any Digital Art Class

The Hospitality, Events, & Tourism Career Cluster encompasses a broad range of services and experiences related to food and beverage, lodging, travel, events, and conferences. This Cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, tourists, and event participants. The Cluster is characterized by its diversity, including everything from luxury hotels and international travel to local dining, cultural events, and business conferences, aiming to enhance the overall experience of visitors and attendees.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

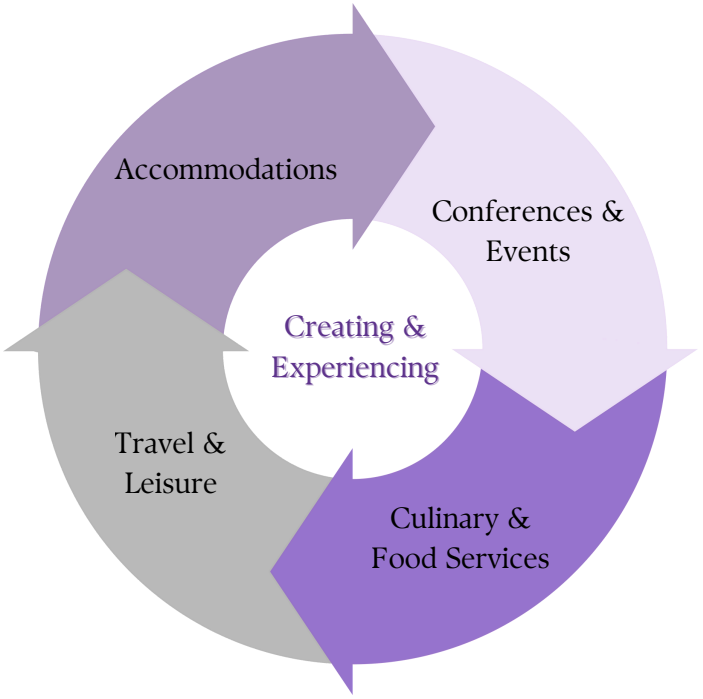
## RECOMMENDED FOR ALL HOSPITALITY, EVENTS, & TOURISM PATHS

- Any Marketing Class, Concepts of Entrepreneurship (DC), Global Business, MS Office for Business Apps (DC), Management & Ethics, Personal Relationships
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech, Persuasion & Debate
- Intro to Stats/AP Statistics
- Any Music Class
- 3-4 years of any language
- Issues in Psychology, AP Psychology, Economics/AP Economics, Sociology, Social Problems, Modern Global Studies, AP European History, Exploring Wisconsin

# Hospitality, Events, & Tourism

**Recommended Student Organizations, Career Experiences, and Work Based Learning**

- FCCLA, FBLA, DECA, SkillsUSA
- Forensics, One Act
- Youth Apprenticeship Program
- Marketing, Hospitality, Business Admin




**FAMILY & CONSUMER SCIENCE**

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Artisan Baking Certificate
- Artisan Modern Meat Butchery
- Baking
- Baking and Decorative Arts
- Baking and Pastry
- Baking and Pastry Management
- Baking Production
- Basic Cooking Skills
- Catering
- Cook-Chef Apprenticeship
- Culinary Arts
- Culinary Management
- Culinary Production Line Cook
- Food Service Production
- Foundations of Lodging & Hospital Management
- Golf Course Management
- Hospitality Management
- Hotel Management
- Kitchen Management
- Promotions and Events Management Certificate
- Restaurant Management
- Restaurant Service Essentials
- Special Event Management

For a comprehensive list and detailed information, visit WTCS Hospitality & Tourism Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Certified Master Wedding and Event Planner
- Event & Meeting Management
- Golf Enterprise Management
- Hospitality Management
- Hospitality Security & Risk Management
- Hospitality Strategy
- Hotel, Restaurant & Tourism Management
- Luxury Management
- Property Management
- Real Estate Property Management
- Senior Living and Services Leadership

For a comprehensive list, visit UW-Help Hospitality & Tourism Program

# Management & Entrepreneurship

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## BUSINESS INFO MANAGEMENT PATH

Computational Thinking (EM), AP Computer Science Principles - Cybersecurity, AP Calculus

## ENTREPRENEURSHIP & SMALL BUSINESS PATH

Graphic Design, Photoshop I & II, Social Problems, Sociology, Persuasion & Debate

## LEADERSHIP & OPERATIONS PATH

Persuasion & Debate, AP Psychology

## PROJECT MANAGEMENT PATH

Any Computer Science Class, Modern Global Studies, Sociology, AP US Gov & Politics

## OPERATIONS PATH

Modern Global Studies, Sociology

The Management & Entrepreneurship Career Cluster involves skills and occupations that are essential across all industries, focusing on business administration, operations optimization, strategic planning, workforce management, and entrepreneurship. It merges key areas such as data management and analysis, human resources, general operations, administrative support, project management, and organizational leadership. This Cluster ensures that businesses across all industries efficiently meet their goals, adapt to market changes, and maintain competitive advantage. By emphasizing entrepreneurship, this Cluster supports the creation of new ventures, driving economic growth and innovation and making it a cornerstone of modern economies.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

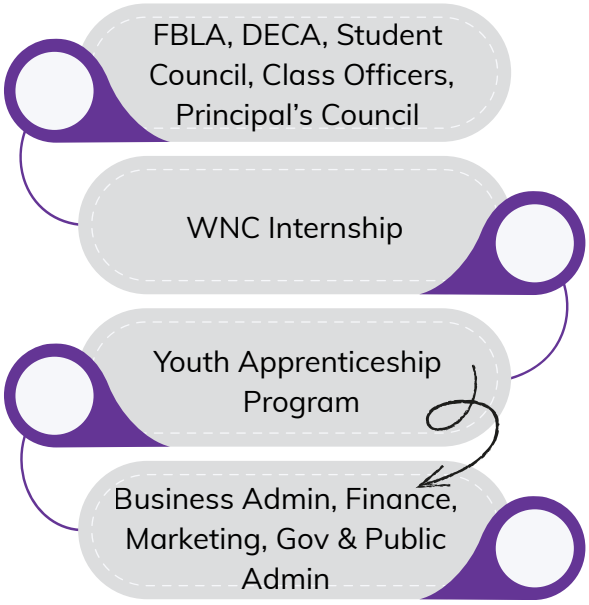
## RECOMMENDED FOR ALL MANAGEMENT & ENTREPRENEURSHIP PATHS

- Any Marketing Class, Any Business Class, Personal Relationships
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Intro to Stats/AP Statistics, Pre-Calculus
- Any Music Class
- 3-4 years of any language
- Economics/AP Economics, AP US Government & Politics

This Career Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

# Management & Entrepreneurship

**Recommended Student Organizations, Career Experiences, and Work Based Learning**



**MARKETING**
EDUCATION

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Accelerated Human Resources Management
- Accelerated Leadership
- Administrative Coordinator / Administrative Professional
- Bilingual Office Assistant
- Broadcast Captioning
- Business Admin Specialist
- Business Management
- Business Systems Analyst
- Compensation and Benefits
- Customer Service Certificate
- Digital Media
- E-Sports Business Management
- Entrepreneur
- Event Management
- Financial Fraud Detection
- Fitness, Recreation and Wellness Management
- Health Office Professional
- Human Resources
- Import / Export Specialist
- Leadership Development
- Management Development
- Manufacturing Operations Management
- Medical Admin Professional
- Meeting and Event Planner
- Project Management
- Public Relations
- Sports and Recreation Management
- Supervisory Management Certificate
- Supply Chain Specialist
- Talent Acquisition Specialist
- Virtual Assistant
- Writing for the Web

For a comprehensive list and detailed information, visit WTCS Business Admin Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Business Administration
- Business Fundamentals
- Business: Human Resource Management
- Business: Management
- Entrepreneurship
- Healthcare Administration
- Human Resources
- Management
- Management & Leadership
- Operations & Supply Management
- Project Management
- Sustainable Management

For a comprehensive list, visit UW-Help Business Admin Program

# Marketing & Sales

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## MARKETING & ADVERTISING PATH

Accounting (DC), Video Editing & Digital Design, Web Design, Any Art Class, Persuasion & Debate

## MARKET RESEARCH, ANALYTICS, & ETHICS PATH

Any Computer Science Class, Accounting (DC), Management & Ethics, Pre-Calculus

## RETAIL & CUSTOMER EXPERIENCE PATH

Fashion & Fabrics, Creative Fashions, Interior & Housing Services, Persuasion & Debate, Personal Relationships

## STRATEGIC SALES PATH

Persuasion & Debate

The Marketing & Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, strategic communications, human-centered design, and retail strategies to build strong customer connections and support business growth. This Cluster is essential in all industries for creating value, effectively reaching and engaging target audiences, and achieving commercial success in a competitive marketplace.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

## RECOMMENDED FOR ALL MARKETING & SALES PATHS

- Graphic Design, Photoshop I & II
- Any Marketing Class, Concepts of Entrepreneurship (DC)
- MS Office for Business Apps (DC)
- Any Music Class
- 2-3 years of any language
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- Intro to Statistics, AP Statistics
- Economics/AP Economics, Issues in Psychology, AP Psychology, Sociology, Social Problems, Modern Global Studies, Exploring Wisconsin

This Career Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

# Marketing & Sales

**Recommended Student Organizations, Career Experiences, and Work Based Learning**

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Customer Relationship Professional
- Customer Service Specialist
- Digital Marketing
- Global Marketing
- Global Trade Finance
- Marketing
- Marketing Leadership and Innovation
- Professional Communication - Digital Marketing
- Project Management
- Promotional Graphic Design
- Property Management
- Real Estate
- Retail Operations
- Sales and Customer Experience
- Sales Management
- Social Media Marketing
- Sports and Event Marketing

For a comprehensive list and detailed information, visit WTCS Marketing & Sales Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Brand Management
- Business Administration
- Business Analytics
- Business-to-Business (B2B) Sales and Marketing
- Consumer Behavior & Marketplace Studies
- Digital Marketing Analytics
- Digital Marketing and AI
- Experiential and Sports Marketing
- International Marketing
- Marketing
- Marketing Analytics
- Marketing and Business Education
- Marketing Communications
- Professional Sales
- Professional Sales
- Social Media Analytics
- Tech Product Marketing

For a comprehensive list, visit UW-Help Marketing & Sales Program

# Public Service & Safety

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## EMERGENCY RESPONSE PATH

Any Health Science Class, NextGen Academy Classes (Madison College), Any PE Course, Advanced Health, Anatomy & Physiology I & II, Chemistry, Computational Thinking (EM)

## JUDICIAL SYSTEMS PATH

AP Language & Comp, AP Literature & Comp, Persuasion & Debate, AP US History, Management & Ethics, MS Office Basics, MS Office for Business Apps (DC)

## LOCAL, STATE, & FEDERAL SERV PATH

Any Business Class

## MILITARY & NATIONAL SECURITY PATH

Any Computer Science Class, Advanced Algebra, Geometry, Pre-Calculus, Any Business Class

## PUBLIC SAFETY PATH

Advanced Health, Any PE Class, Modern Global Studies, MS Office Basics, MS Office for Business Apps (DC)

The Public Service & Safety Career Cluster encompasses roles in local, state, and federal government; legal and justice systems; security; and military operations, all aimed at promoting civic responsibility and ensuring the well-being, security, functionality, and resilience of communities, states, and countries.

WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

## RECOMMENDED FOR ALL PUBLIC SERVICE & SAFETY PATHS

- Personal Relationships
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech
- 3-4 years of any language
- Social Problems, Sociology, AP US Government & Politics, Issues in Psychology, AP Psychology, Exploring Wisconsin

# Public Service & Safety

**Recommended Student Organizations, Career Experiences, and Work Based Learning**

- HOSA, WI Civics Games, Student Council
- Mock Trial, NextGen Academies (Madison College)
- Youth Apprenticeship Program
- Law & Public Safety, Gov & Public Safety, Health Science

HEALTH SCIENCE

## Wisconsin Technical College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Asset Protection
- Corrections
- Court Reporting
- Criminal Justice
- Criminal Justice - Law Enforcement
- Critical Care Paramedic
- Critical Care Transport
- Emergency Dispatch Certificate
- Emergency Medical Technician (EMT)
- EMT - Firefighter
- Evidence Technician
- Fire Medic
- Fire Science
- Fire Service Training and Cert
- Forensic Science
- Jail Academy
- Justice & Community Advocacy
- Law Enforcement
- Law Office Administration
- Legal Studies / Paralegal
- Paramedic
- Private Investigation Specialist
- Professional Communication - Criminal Justice
- Professional Private Investigator
- Security Professional

For a comprehensive list and detailed information, visit WTCS Law & Public Safety Program

## University of Wisconsin College System
### Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Conservation Law Enforcement
- Corrections
- Criminal Justice
- Criminal Law
- Criminology
- Cybersecurity
- Elder Law
- Fire & Emergency Response Management
- Forensics Investigation
- Immigration Law
- Law
- Legal Studies
- Occupational Safety
- Public Administration
- Public Interest Law
- Public Policy
- Research Security
- Risk Control & Safety Management
- Urban Studies

For a comprehensive list, visit UW-Help Law & Public Safety Program

# Supply Chain & Transportation

**Essential Program Learning Experiences**
Coursework directly aligned to this specific Program of Study; does NOT include required core coursework that is applicable to all Programs.

## AIR & SPACE TRANSPORTATION PATH

Small Engine Technology, Auto Mechanics, FST, AP Calculus, Chemistry, Physics, Physics II, Any Computer Science Class

## GROUND & RAIL TRANSPORTATION PATH

Small Engine Technology, Auto Mechanics, Metal Technology, Metal Fab (DC), Welding (DC)

## MAINTENANCE & REPAIR PATH

Small Engine Technology, Auto Mechanics, Ag Machine & Building, Metal Technology, Metal Fab (DC), Welding (DC)

## MARINE TRANSPORTATION PATH

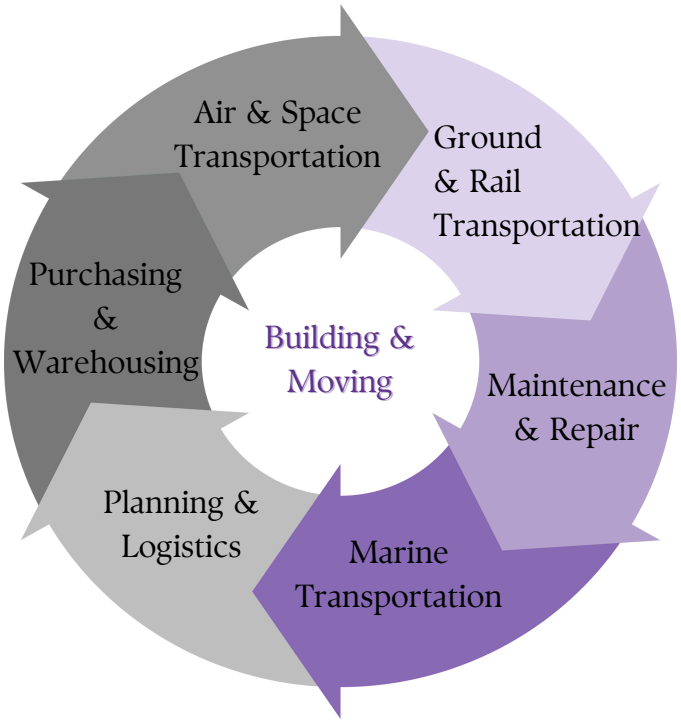
Small Engine Technology, Auto Mechanics, FST, Chemistry, Physics, Physics II, Any Computer Science Class

## PLANNING & LOGISTICS PATH

Metal Technology, Metal Fab (DC), Welding (DC), Management & Ethics, Concepts of Entrepreneurship (DC), Intro to Stats, Global Business, Computer Science I & II

## PURCHASING & WAREHOUSING PATH

Intro to Stats, AP Statistics, Management & Ethics, Accounting (DC), Selling Principles (DC)




The Supply Chain & Transportation Career Cluster encompasses the transfer, coordination, and management of goods from production to consumption, ensuring efficient movement across various modes of transportation including air, ground, and water, as well as maintenance of the respective transport modes. This Cluster integrates logistics and distribution networks to facilitate the seamless flow of materials and products, playing a crucial role in global commerce, economic development, and community health.

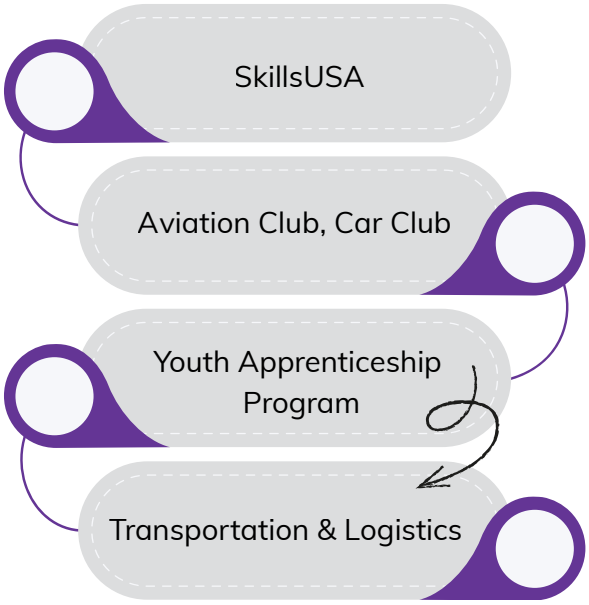
WCHS created this Career Cluster Program of Study to guide students, families, counselors, and staff in career planning. Courses are recommended, but each plan should be individualized to align with the learner's goals.

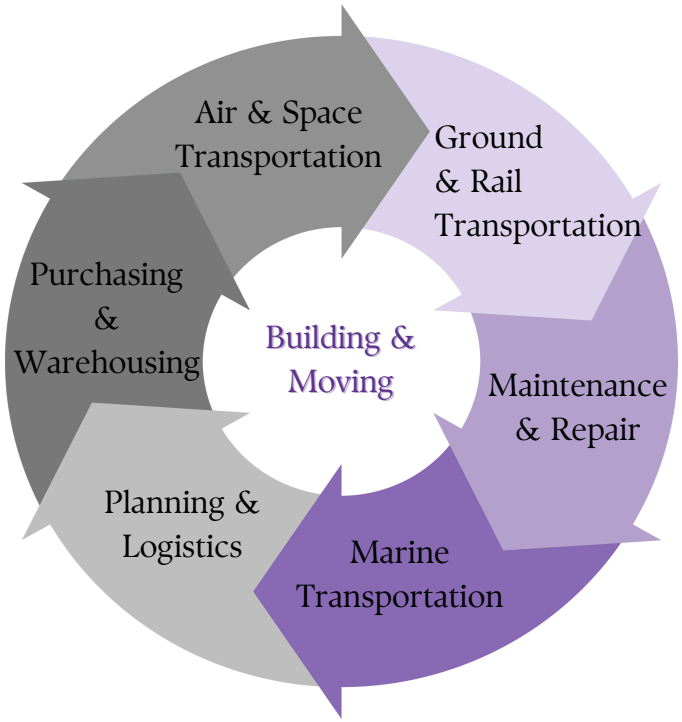
## RECOMMENDED FOR ALL SUPPLY CHAIN & TRANSPORTATION PATHS

- MS Office for Business Applications (DC)
- Any Engineering Class
- Any Writing Class (Advanced Composition, AP Language & Composition, Creative Writing), Speech, Any Literature Class
- Issues in Psychology, AP Psychology, Economics/AP Economics, AP Government & Politics, Sociology
- 2 years of any language

# Supply Chain & Transportation

**Recommended Student Organizations, Career Experiences, and Work Based Learning**




TECHNOLOGY
& ENGINEERING

## Wisconsin Technical College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Advanced Marine Repair Technician
- Aeronautics - Pilot Training
- Airframe and Powerplant Mechanics
- Auto Collision Fundamentals
- Auto Collision Repair and Refinishing
- Auto Maintenance Technician
- Automotive Service Management
- Automotive Technology
- Aviation Management
- Diesel and Heavy Equipment Tech
- Diesel Technology
- Drone (Unmanned Aerial Systems)
- Logistics
- Lube Technician
- Motorcycle, Marine and Outdoor Power Products
- Operating Engineer / Heavy Equipment Operator Apprentice
- Outdoor Power Equipment Tech
- Power Sports Technology
- Purchasing Agent / Buyer
- Roadways Maintenance Tech Apprentice
- Service Writer Certificate
- Small Engine Repair Specialist
- Supply Chain Management
- Traffic Safety
- Transportation - Logistics
- Truck Driving
- Undercar Technician

For a comprehensive list and detailed information, visit WTCS Transportation Program

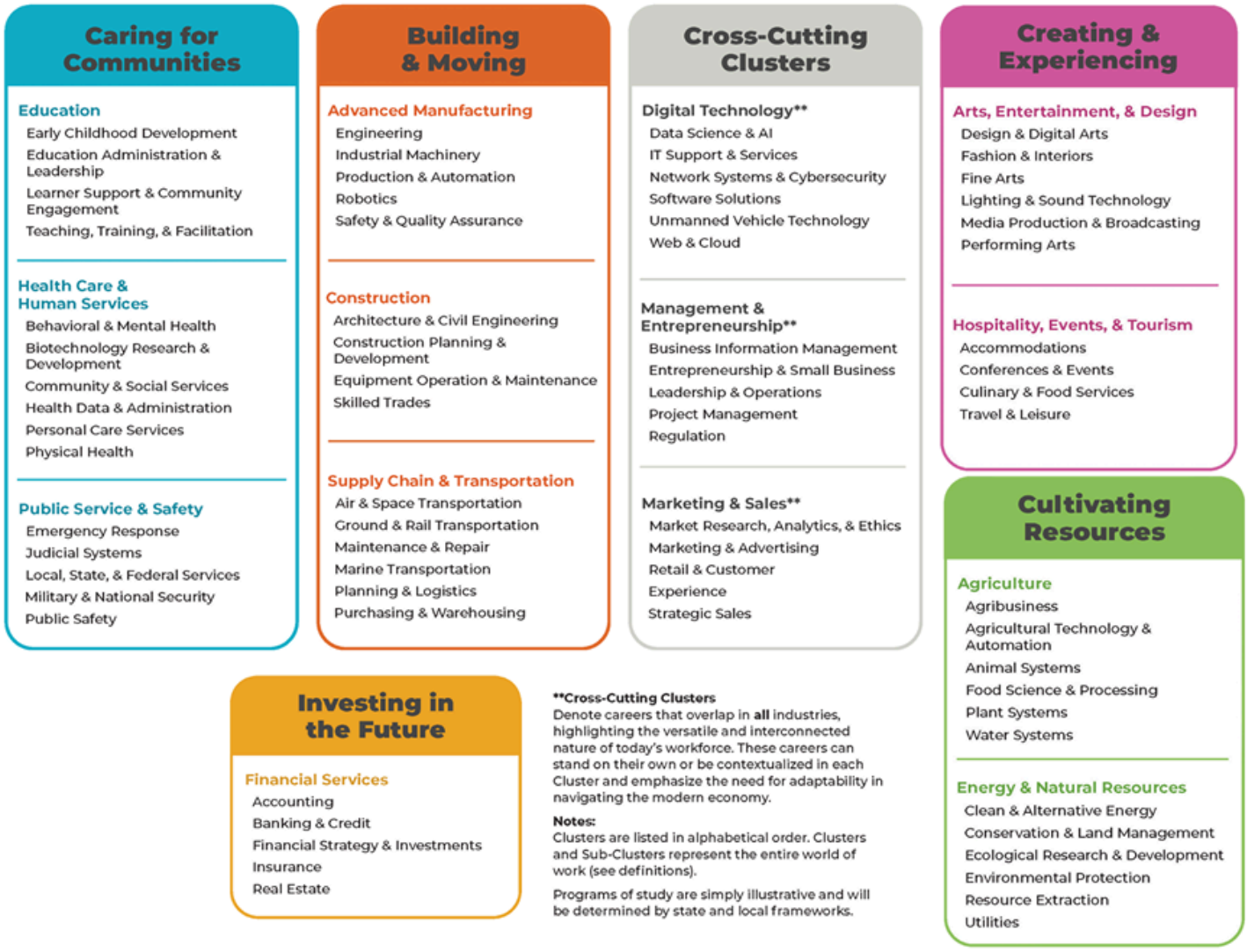
## University of Wisconsin College System
## Related Programs, Degrees & Certificates (Examples not All-Inclusive)

- Digital Supply Chain Management
- Global Sourcing
- Logistics Analytics
- Project Management
- Supply Chain and Operations Management
- Supply Chain Management
- Transportation and Logistics Management

For a comprehensive list, visit UW-Help Transportation Program

# Program of Study Framework: A Grid View

## The Framework: Grid View




### ADDITIONAL RESOURCES

- Advanced CTE | About the National Career Clusters Framework
- Advanced CTE | Industry Sector Profiles
- Advanced CTE | The Modernized National Career Clusters Framework Guidebook
- Advanced CTE | The Modernized National Career Clusters Framework Guidebook (Spanish)
- Wisconsin DPI | Career Clusters