

# 2026-27



# ACADEMIC COURSE GUIDE



**Arrowhead Union High School**



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# Course Selection Information

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The array of courses offered at Arrowhead High School are designed to prepare students with differing interests and abilities for a variety of post high school options.

Some English, Social Studies, Mathematics, or Science courses do not meet academic unit requirements for admission to the Universities of Wisconsin and other colleges and universities. Remedial and basic courses do not offer the subject matter or level of academic rigor demanded by the college preparatory courses.

There is a general agreement between the universities and high schools regarding acceptable college preparatory credits. However, this may vary between one institution of higher education and another. We have, to the best of our knowledge and experience, indicated these courses in the Course Guide with an asterisk (\*) before the course title. These courses generally meet the NCAA's definition of core courses. Details are available from the NCAA Eligibility Center ([www.ncaa.org](http://www.ncaa.org)) and the Arrowhead Counseling Office. It is the responsibility of the student to confirm this information with the university/college admissions office and/or their compliance official.

Universities of Wisconsin admission requires 34 "college-preparatory units" including four years of English, three years of Social Studies, three years of Mathematics (algebra and higher), three years of Science, and four years of additional college preparatory electives. All colleges and universities highly recommend four years of core classes: English, Math, Science, and Social Studies. Three to four years of a single World Language is highly recommended by UW-Madison. All universities view World Language as strong college preparation.

Students should select courses carefully as there are limited opportunities to make schedule changes. It is important to check their Arrowhead email for directions, dates and options regarding student schedules. Changes may be made in the first six days of each semester dependent upon course availability during open hours. Students must have permission from their parent/guardian to make any adjustments. Please see below for drop/ add course considerations:

- A. 6 school days to make schedule changes if the student's schedule allows
- B. 10 school days to drop a class to add a study hall (to maintain full-time status) or switch to the same content to maintain full-time status
- C. 10 school days to drop an AP class and add a different class
- D. 10 - 20 school days to dropping a course results in a withdrawal on the transcript (W). Students may not add a class and may only drop to 7 credits.
- E. 21 days and beyond results in an F on the transcript

## Flexible Scheduling Option

Flexible Scheduling Option (FSO) is an opportunity which allows qualified juniors and seniors to arrive at school later or leave early (one block- alternate day). Students must sign up for the option in the course selection process, complete/submit a signed contract, maintain a 3.0 cumulative GPA, and be on track to graduate. Specific details are on the FSO Contract. **Students who have conflicts fitting in their classes in the scheduling process may be dropped from the FSO to resolve the schedule issue.**

## Teacher Requests

Requests to change a teacher will not be honored. In the rare situation where extenuating circumstances may exist, written principal approval is required. Please note that all courses are scheduled by semester. Students earn a grade for each separate semester. It is common practice, particularly at North Campus, for classroom teachers to change at semester.

# How to Use the Course Guide

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The Arrowhead Course Guide provides information about courses and credits for both the full school year and Summer School. Please refer to other guides, [Career Planning Guide](#) and [Arrowhead Student Handbook](#).

The Arrowhead High School Course Guide is organized alphabetically by department and within each department by name. Specifics about each class including credits earned, duration of course, and prerequisites are on the right side of the description. Please refer to the table of contents for information on graduation, policies and procedures, and academic and career planning.

Students will register for their school year and summer school classes in early February. Please note: All courses require minimum student enrollment to be offered.

## Graduation Credit Requirements

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### **8 CREDITS ENGLISH**

- Must include English 9 1 & 2 (English 9 Honors meets the requirement)
- Must include English 10 1 & 2 (English 10 Honors meets the requirement)
- Must include English 11 1 & 2 (AP Language and Composition meets the requirement)

### **6 CREDITS SOCIAL STUDIES**

- Must include Social Studies 9 (Social Studies 9 or \*AP Human Geography)
- Must include U.S. History 1 & 2 or A.P. U.S. History 1 & 2

*\*Students who take AP Human Geography must take Political Science (1 semester) or AP US Government and Politics (2 semesters) in 10th, 11th or 12th grade*

### **6 CREDITS SCIENCE**

- Must include two credits of Life Science and two credits of Physical Science

### **6 CREDITS MATHEMATICS**

### **2 CREDITS CAREER AND TECHNICAL EDUCATION (CTE)**

- Business and Marketing, Family and Consumer, Health Science, Technology and Engineering  
(Please NOTE: Starting with the class of 2028- students must complete **3 CTE CREDITS** which must include Personal Finance.)

### **3 CREDITS PHYSICAL EDUCATION**

- Must include three different types of classes over three separate school years

### **1 CREDIT HEALTH**

### **2 CREDITS FINE ARTS**

- Music, Art, or Acting

### **16 ADDITIONAL CREDITS (15 credits for Class of 2028 and beyond)**

### **50 TOTAL (PLUS 65% or better on the Wisconsin Civics Test)**

# New Courses, Major Course Revisions and Procedure Changes for 2026-27

## 2026-27 New Courses

Department	Course
Business	Business Academy
Family & Consumer Science	Educational Leadership
Family & Consumer Science	Peer Mentored Food & Nutrition
Technology and Engineering	Arrowhead Automotive
English	Literacy Through Film
Social Studies	Social Studies Through Film
Music	Music Through Film

## 2026-27 Course Revisions

Course	Revision
Science 9 1 & 2	Name change to Physical Science
(STS) Forensics Science	Name change to Forensics Science
(STS) Space Science	Name change to Space Science

## 2026-27 Course Removal

Department	Course
Family & Consumer Science	Design and Clothing
Family & Consumer Science	Fashion Analysis
English	World Literature

## Arrowhead Block Schedule

Arrowhead courses will run on an alternate day block (A/B Block) schedule and include a daily resource period. Students are required to sign up for at least 7 classes (Periods) each semester, which can include FSO.

Time	RED DAY	BLUE DAY
7:20 am - 7:50 am	Resource	Resource
7:57 am - 9:22 am	Block 1 Class	Block 5 Class
9:30 am - 10:58 am	Block 2 Class	Block 6 Class
10:58 am- 11:28 am	A Lunch	A Lunch
11:32 am - 12:57 pm	Block 3A Class	Block 7A Class
<b>OR</b>		
11:06 am - 12:31 pm	Block 3B Class	Block 7B Class
12:31 pm - 1:01 pm	B Lunch	B Lunch
1:05 pm - 2:30 pm	Block 4	Block 8

# Additional Learning Opportunities

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## **Independent Study Contracts**

Independent Study is an individualized method of learning where the student has a one-to-one relationship with a teacher. It requires considerable flexibility, motivation, discipline, persistence, and good study habits. Independent Study is not used to accommodate a conflict in the student schedule.

Students applying for Independent Study may qualify under one of the following stipulations:

1. Studying beyond what the course offers
2. Pursuing intense interest in the area of study
3. Working at a higher level after completing regular curriculum

Procedure:

1. Interested students and parents must apply through their counselor, in combination with the department chair/coordinator, and the respective classroom teacher. The application form is available in the school counseling office.
2. Students interested in Independent Study must complete the application process ten days prior to the end of the previous semester.
3. Students may be enrolled in one Independent Study per semester.
4. Students are graded on a pass/fail basis.

## **Teacher Assistant Program**

Students interested in assisting teachers with classroom activities may apply to serve as a Teacher Assistant. These positions require a high degree of responsibility, dependability, cooperation and confidentiality. The application form (Independent study contract) is available in the school counseling office. Also see Brenda King if you have additional questions.

## **World Language Retroactive Credits**

Many colleges and universities grant credit for high school world languages as long as additional world language course work is successfully completed at the college level. Students should check with their prospective university for specific information.

## **College Credit Opportunities**

### **CAPP**

Arrowhead offers college credits through the UW-Oshkosh in English and Business. Students can select if they wish to take the courses for BOTH high school and college credit.

### **CCIHS**

Arrowhead offers College Credit in High School (CCIHS) through UW-Green Bay. See course descriptions for more details.

### **Early College Credit Program**

Under the Early College Credit Program, any public high school pupil may enroll in an institution of higher education—defined to include a UW System institution, a technical college within the WTCS (this program is called Start College Now) or a private, nonprofit institution of higher education located in this state—for the purpose of taking one or more nonsectarian courses, including during a summer semester or session.

Students must apply to their school counselors and once approved must apply to the institution of higher education during the previous semester (due dates are **October 1** for second semester and **March 1** for first semester). On the application student should indicate whether they will be taking the course or courses for high school credit or postsecondary credit or both, if applicable. An institution of higher education must admit a pupil to attend a course if the pupil meets the requirements and prerequisites of the course and there is space available in the course.

Students are limited to the total number of credits for which the school will pay to the equivalent of 18 postsecondary semester credits per pupil. Students earn 1 high school credit per course unless noted differently in the acceptance letter for their respective program.

# Additional Learning Opportunities

The pupil, if he or she is an adult, or the parent or guardian of a pupil who receives a failing grade in a course or fails to complete a course for which the school has made payment, must reimburse the school the amount paid on the pupil's behalf. If no reimbursement is received, the school board can block further access by the pupil to the Early College Credit program.

Students interested in the Early College Credit Program should see their counselor. This should be done well in advance of the due dates to explore options.

## **Early College Credit Applications (links)**

[OTTAWA UNIVERSITY](#)

[UW SYSTEM](#)

[WISCONSIN INDEPENDENT COLLEGES AND UNIVERSITIES](#)

[START COLLEGE NOW \(WCTC\)](#)

[DUAL ENROLLMENT ACADEMY \(WCTC\)](#)

## **Credit Recovery/APEX**

Credit Recovery allows students to earn credits in certain previously failed courses, and improve an "F" to a "P". This is a customized approach to earn up to 8 credits for Social Studies, Health, Science, Art and English. The transcript will reflect the name of the course followed by a notation (CR) for Credit Recovery. Students complete an academic intervention contract which provides more details.

Students and parents are encouraged to be in frequent communication with their assigned counselor regarding required credits for graduation. One option for regaining credits in failed classes needed for graduation may be APEX, an online computerized option for earning high school credits with state and national curriculum standards. The transcript will reflect the name of the course followed by a notation (AX) identifying it as online. It is the responsibility of the student to determine if the course is acceptable for college entrance requirements or NCAA eligibility. Students may earn up to 8 credits in APEX or Credit recovery. For more information regarding this program, see your student's school counselor.

## **Equal Educational Opportunity**

*It is the policy of Arrowhead High School that no person may be denied admission in this district or be discriminated against in any curricular, extracurricular, pupil service, recreational, or other program or activity because of the person's sex, race, national origin, ancestry, creed, religion, limited English-speaking, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional, or learning disability or handicap as required by S.118.13 (P.I. 9.04), Wisconsin Statutes. This policy also prohibits discrimination as defined by Title IX of the Education Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1964 (race and national origin), and Section 504 of the Rehabilitation Act of 1973. The district encourages informal resolution of complaints under this policy. A formal complaint resolution procedure is available, however, to address allegations of violations of the policy in the Arrowhead School District.*

Any questions regarding this policy should be directed to the following:

Conrad Farnier  
Superintendent  
Arrowhead School District  
700 North Avenue  
Hartland, WI 53029  
(262)369-3611, Ext. 4111

# Additional Information

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## **Diploma Requirements**

The Arrowhead Board of Education issues an Arrowhead High School diploma to students who successfully complete 50 credits in the areas specified and as outlined in [School Board Policy](#).

## **Exchange Students**

The Arrowhead High School Principal must approve an enrollment application for all International Student Exchange participants. The exchange students that qualify are enrolled for one year and must pass a full-time schedule (14 credits) that includes Social Studies and English. Arrowhead High School students who study abroad in a pre-approved exchange program will earn credits as a pass/fail which will not impact their GPA. See [policy 5114](#) for more information.

## **External Credit Transfer**

When students are enrolled at AHS, only credits taken through Arrowhead Curriculum, Part-Time Open Enrollment and Dual Enrollment programs will be transcribed. While we encourage students to participate in other enrichment programs, AHS does not transcript credits taken externally.

## **Homeschooled Students**

Homeschooled students must be in full-time attendance at Arrowhead the final two semesters, senior year, to earn an Arrowhead diploma. Additionally, the students must pass senior year classes and meet all Arrowhead graduation requirements. Under state law, homeschool students can earn up to 2 credits per semester at AHS.

## **Transfer Students**

Transfer students are expected to meet all Arrowhead graduation requirements. Students transferring from another high school will have credits previously earned transferred to Arrowhead credit system (1 credit per semester generally), upon receipt of the official transcript. A report card is not sufficient evidence to grant credits toward graduation. Additionally, for all Arrowhead courses where a prerequisite is given, all prerequisites must be met for a transfer student to enroll. Extenuating circumstances must have administrative approval.

## **Enrollment**

(See also Arrowhead School [Board Policy 5111](#))

## **Grade Placement**

Students registering to attend Arrowhead High School are required to complete the official enrollment process prior to admittance and assignment to a grade level or class schedule. Students transferring from other schools or home-based education programs must provide an original birth certificate or similar document, official transcripts and/or other records showing their level of academic achievement, subjects completed, credits earned, and standardized test results. These documents should be presented to the school counselor. In some cases, temporary enrollment may be permitted.

# Additional Information

## **Early Enrollment**

Elementary student residents of the Arrowhead Union High School District may be allowed, pending availability of space and approval by the Director of Learning, to enroll in a high school level course. Grades and credits earned in the early enrollment program are posted on their official high school transcript and calculated into the high school GPA. This policy includes courses taught totally or in part at elementary schools within the district. Students participating in the early enrollment program will be considered students of Arrowhead and receive grades, credit, and transcript records.

## **Part-time Open Enrollment**

Arrowhead students may enroll for a course in another school district. For more information, please visit- <https://dpi.wi.gov/open-enrollment/ptoe>

## **Fees**

The school board approves course fees for classes that include consumable materials. These fees will be included on the August registration in Skyward and as an appendix to this course guide. Advanced Placement test fees will be collected in February and will be approximately \$105 per test.

## **Auditing a Class**

Students may audit a course for no grade or credit. Arrangements must be made with the counselor and approved by the teacher no later than ten days after the first nine-week grading period of the semester. Audited classes must be maintained at passing level. If the student fails the class, a letter grade of F is recorded on the transcript. Audit contracts may be obtained from the counselors. They must be signed by the student, parent/guardian, the teacher, and the counselor before they are put into effect. Students are encouraged to investigate how this is viewed by colleges and universities.

## **Class Rank and Wisconsin Guarantee**

Arrowhead High School provides students with a class rank. Student who rank in the top 5% receive guaranteed admissions to UW-Madison or other Universities of Wisconsin. Students who rank in the top 10% have guaranteed admissions to Universities of Wisconsin (not including UW Madison). The notification to students will occur at end of the Junior year. For more information about Wisconsin Guarantee - [click here](#)



# Additional Information

## Grading System

Students know at any given time what grades they are earning using the student information system: Skyward. Additionally, students receive feedback on progress and grades through our learner management system: Canvas. Parents and students have login and password information for access to both systems. Students receive grades at the end of nine weeks, and at the end of each semester. Nine-week grades are a progress report. The only grades reflected on a student's transcript are the semester grade.

The school year is divided into two semesters. Each semester contains two quarters, each lasting nine weeks. Report cards are available on Skyward at the end of each quarter and semester. The semester grades are also on Skyward as well as published to the student's permanent record/transcript. A uniform grading scale is used by all departments. Teachers will distribute their grading standards, Skyward procedures, and other components of grading at the start of each semester. Arrowhead uses the following grading scale, which includes a weighted system for AP classes:

<b>GRADE</b>	<b>PERCENT</b>	<b>Unweighted/Non-AP Classes</b>	<b>Weighted/AP Classes</b>
A	93.00	4.00	5.00
A-	90.00 - 92.99	3.67	4.67
B+	87.00 - 89.99	3.34	4.34
B	83.00 - 86.99	3.00	4.00
B-	80.00 - 82.99	2.67	3.67
C+	77.00 - 79.99	2.34	3.34
C	73.00 - 76.99	2.00	3.00
C-	70.00 - 72.99	1.67	2.67
D+	67.00 - 69.99	1.34	2.34
D	63.00 - 66.99	1.00	2.00
D-	60.00 - 62.99	0.67	1.67
F	59.99	0.00	0.00

### Pass/Fail

Courses taken as Pass/Fail are not computed into the GPA. Administrative approval is required for all credits earned pass/fail.

### Incompletes

When the student is missing work due to extended absence or extenuating circumstance, the teacher has the option of issuing an incomplete grade. If the work is not finished within ten days of the day the report card is issued, the incomplete grade reverts to the grade earned.

### Repeating Courses

Students who earn an "F" in a required class for graduation must repeat the course to earn credit. Students who earn an "F" in an elective may choose to repeat the class to earn the credit and improve the grade. The transcript will have an "R" replacing the "F" to identify that the course was repeated. The new grade earned will be transcribed in the semester the student repeated. This procedure will provide a record that is historically accurate and will not penalize the student's GPA.

# College & Career Exploration

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Arrowhead High School offers guidance and course opportunities to develop awareness and skills for future careers. As students plan their high school program and participate in course offerings each year, they will begin to develop ideas of their strengths, interests, and capabilities related to their future plans and engage in Academic & Career Exploration (ACE) using the XELLO system.

An Academic and Career Plan (ACP) includes a program of study that reflects a student's unique set of interests, needs, goals, and graduation requirements. It goes beyond the traditional "four-year plan" by recording the student's connections to the larger community including examples of service and volunteerism; involvement in mentorships and/or apprenticeships; and the pursuit of skill development through hobbies, athletics, and fine arts. See the school counseling tab or the Arrowhead website for more information on Academic and Career Exploration.

Students and parents are invited to visit the Arrowhead High School Website at [www.arrowheadschoools.org](http://www.arrowheadschoools.org) to learn more about the high school opportunities for career exploration and postsecondary planning. Teachers and counselors organize field trips, guest speakers, career fairs, classroom presentations, informational materials and a variety of assessments to assist with career and educational planning. Students and parents can also find a link to XELLO in this section to log in to their personalized account for academic and career planning tools.

Career exploration occurs throughout high school as students take a variety of classes and make the connection between what they are learning and future occupational options.

## Career Cluster Framework

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

**Career Pathways** are a sub-grouping of careers used as an organizing tool for curriculum design and instruction. Similar to Career Clusters, Career Pathways are grouped based on their requirements for a set of core and similar knowledge and skills for career success. Each pathway highlights a specific part of each cluster. Please see [Career Planning Guide](#) for more information.

# Career Clusters

## Sixteen Career Clusters and Their Pathways

<p><b>Agriculture, Food and Natural Resources</b>            Agribusiness Systems            Animal Systems            Environmental Service Systems            Food Products and Processing Systems            Natural Resources Systems            Plant System            Power, Structure and Technical Systems</p>
<p><b>Architecture and Construction</b>            Construction            Design/Pre-Construction</p>
<p><b>Arts, Audio/Video Technology and Communications</b>            Audio and Video Technology and Film            Journalism and Broadcasting            Performing Arts            Printing Technology            Telecommunications            Visual Arts</p>
<p><b>Business Management and Administration</b>            Administrative Support            Business Information Management            General Management            Human Resources Management            Operations Management</p>
<p><b>Education and Training</b>            Administration and Administrative Support            Professional Support Services            Teaching/Training</p>
<p><b>Finance</b>            Accounting            Banking Services            Business Finance            Insurance            Securities and Investments</p>
<p><b>Government and Public Administration</b>            Foreign Service            Governance            National Security            Planning            Public Management and Administration            Regulation            Revenue and Taxation</p>
<p><b>Health Science</b>            Biotechnology Research and Development            Diagnostic Services            Health Informatics            Support Services            Therapeutic Services</p>

<p><b>Hospitality and Tourism</b>            Lodging            Recreation, Amusements and Attractions            Restaurants and Food/Beverage Services            Travel and Tourism</p>
<p><b>Human Services</b>            Consumer Services            Counseling and Mental Health Services            Early Childhood Development and Services            Family and Community Services            Personal Care Services</p>
<p><b>Information Technology</b>            Information Support and Services            Network Systems            Programming and Software Development            Web and Digital Communications</p>
<p><b>Law, Public Safety, Corrections and Security</b>            Correction Services            Emergency and Fire Management Services            Law Enforcement Services            Legal Services            Security and Protective Services</p>
<p><b>Manufacturing</b>            Health, Safety and Environmental Assurance            Logistics and Inventory Control            Maintenance, Installation and Repair            Manufacturing Production Process Development            Production            Quality Assurance</p>
<p><b>Marketing</b>            Marketing Communications            Marketing Management            Marketing Research            Merchandising            Professional Sales</p>
<p><b>Science, Technology, Engineering and Mathematics</b>            Engineering and Technology            Science and Math</p>
<p><b>Transportation, Distribution, and Logistics</b>            Facility and Mobile Equipment Maintenance            Health, Safety and Environmental Management            Logistics Planning and Management Services            Sales and Service            Transportation Operations            Transportation Systems/Infrastructure Planning            Management and Regulation            Warehouse and Distribution Center Operations</p>

# Academic and Career Planning Student Reflection:

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

## **KNOW: *Who am I?***

- What interests me?
- What are my strongest skills?
- What are my dispositions?
- What skills would I like to develop before I graduate?
- How do I learn best?

## **EXPLORE: *What do I want to do?***

- What courses interest me most?
- What are the career- focused courses that interest me most?
- What type of degree or certificate do I need to support my postsecondary goals?
- What jobs or careers would I like to shadow and when do I do that?
- What schools offer a related degree/majors to what I am interested in?
- What are the typical credits I need to earn in each subject for college admissions?
- What will I need to provide a competitive admissions application for schools/majors I might be interested in? For example:
  - What level of math must I complete?
  - Which specific science courses are required?
  - Should I take a world language?
  - Should I take fine arts classes?
  - What ACT scores are required for admission?

## **PLAN: *How do I want to get there?***

- How much will post high school education cost and how will I pay for it?
- Will I qualify for Financial Aid and Scholarships?
- Will I have any savings from employment during high school?
- Which co-curricular activities will support my interests after high school?
- What skills and work-based experiences will help me develop desired skills?
- What credentials should I explore?
- Who are the adults in my life that could act as mentors as I continue to explore opportunities for my future?

## **GO: *Do I need to review, adapt and modify my plans?***

Students are in the driver's seat of their Academic and Career Planning process. Students should reflect often on their choices and update their plans as often as possible (yearly):

- Review, adapt and modify course selections
- Review, adapt or modify personal goals
- Conference with counselors, parents and teachers

For more information about Academic and Career Exploration, please visit the Arrowhead Website at: [https://www.arrowheadschoools.org/academics/Student\\_lessons.cfm](https://www.arrowheadschoools.org/academics/Student_lessons.cfm)

# Arrowhead Career Pathways

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**Within students' Academic and Career Planning, Arrowhead has recently reframed some of our curricular coursework in a way that helps students see their career goals come to life in a ready-made Academic and Career Plan. We do this two ways, through our locally developed pathways and through Regional Career Pathways.**

The **Wisconsin Regional Career Pathways (RCP)** approach is a statewide effort to deliver high-quality career pathways in high schools that reflect the needs and vision of a regional collaborative group of employers, education, and economic and workforce development.

The regional collaboratives adopt, implement, promote, and monitor high school career pathways in high-skill, in-demand industry sectors. They act as an advisory group, on behalf of regional districts, to identify and overcome barriers that prevent students in the region from accessing the pathway. An example of such a barrier may include college curriculum that is not aligned with the career pathway.

In addition, the collaborative provides the means necessary for students to participate and complete a pathway by;

- Taking a sequence of aligned courses,
- Earning an industry-recognized credential,
- Enrolling in dual college credit classes,
- Participating in career-based and work-based learning experiences, and
- Accessing related Career and Technical Education (CTE) student organizations

What are the Benefits of Regional Career Pathways?

- **For high school students**, regional career pathways align education and training with the needs of the local job market, provide a range of postsecondary options, result in a high school diploma with at least one industry-recognized credential, and help students enter or advance within an occupation.
- **For schools**, career pathways provide a specific ACP plan for occupations that are in demand in Wisconsin. This allows schools to focus on student and curriculum activities with input and support from regional employers and higher education.
- **For employers**, regional career pathways make partnerships with a greater number of schools possible. This allows employers to shape the future talent pipeline, foster young talent, and highlight local career opportunities across an entire region.

# State Endorsed REGIONAL CAREER PATHWAYS

## HEALTH SCIENCE – PATIENT CARE

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	INDUSTRY RECOGNIZED CREDENTIALS	WORK BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORIENTATION
Health Occupations 10th - 12th Grade  Medical Terminology & Business Practices 10th - 12th Grade  Health Practicum 12th Grade  EMT - B 12th Grade	Nursing Assistant   Nationally Recognized Emergency Medical Technician (EMT)	Basic Life Support (CPR)  Certified Nursing Assistant	Health Youth Apprenticeship Program <i>Resident Aide, Nursing Assistant, Pharmacy Technician, Dental Assistant</i> 11th - 12th Grade	HOSA: Future Health Professionals



WAUKESHA  
COUNTY TECHNICAL  
COLLEGE



PROHEALTH CARE

# State Endorsed REGIONAL CAREER PATHWAYS

## ADVANCED MANUFACTURING

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	INDUSTRY RECOGNIZED CREDENTIALS	WORK BASED LEARNING EXPERIENCES	STUDENT ORGANIZATIONS
<p>Intro to Engineering &amp; Manufacturing 9th - 12th grade</p> <p>Manufacturing &amp; Engineering with Materials 10th grade</p> <p>Woods Production I and II 11th - 12th grade</p> <p>Cabinetmaking 12th grade</p> <p>Metal Fabrication I 11th - 12th grade</p> <p>Metal Fabrication II 12th grade</p> <p>Machining I 11th - 12th grade</p> <p>Warhawk Manufacturing 12th grade</p>	<p>UWGB- CCIHS</p> <p>Gas Arc Welding I through Metal Fab I - WCTC</p>	<p>Sawblade &amp; Core-Woodworking Career Alliance</p>	<p>Youth Apprenticeship 11th - 12th Grade</p> <p>Warhawk Manufacturing &amp; Employability Skills 12th Grade</p>	<p>SkillsUSA</p>



WAUKESHA  
COUNTY TECHNICAL  
COLLEGE



UNIVERSITY of WISCONSIN  
GREEN BAY

# CTE CAREER PATHWAYS

## BUSINESS MANAGEMENT AND ADMINISTRATION

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	WORK BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORIENTATION
Introduction to Business 9th - 10th grade  Careers & Employment Success 9th - 12th grade  Business Law 11th - 12th grade  Marketing & Business 9th -12th grade	Entrepreneurship Venture 11th - 12th grade UW Oshkosh  AP Microeconomics 11th - 12th grade	Youth Apprenticeship 11th - 12th grade  Business Academy	DECA

## EDUCATION AND TRAINING

CTE COURSES	INDUSTRY RECOGNIZED CREDENTIALS
Early Childhood Education 9th - 12th grade  Child Development 11th - 12th grade  Human Relations 11th - 12th grade  Educational Leadership 11 <sup>th</sup> -12 <sup>th</sup> grade	Infant and Toddler Certification  Abusive head Trauma Certification  Certified Nursing Assistant

## FINANCE

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	WORK BASED LEARNING EXPERIENCES
Accounting 10th - 12th grade  Personal Finance 10th - 12th grade	College Accounting 11th - 12th grade  College Personal Finance 10th-12 <sup>th</sup> grade  AP Microeconomics 11th - 12th grade	Youth Apprenticeship 11th - 12th grade

# CTE

## CAREER PATHWAYS

### MARKETING, SALES AND SERVICE

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	WORK BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORGANIZATION
Introduction to Business 9th - 10th grade  Marketing & Business 10th - 12th grade  Sales and Promotions 11th - 12th grade  Sports and Entertainment Management 11th - 12th grade	Entrepreneurship Venture 11th - 12th grade UW Oshkosh	Youth Apprenticeship 11th - 12th grade  Business Academy	DECA

### SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	WORK BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORGANIZATION
Intro to Engineering and Manufacturing 9th - 12th grade  Civil Engineering and Architecture (PLTW) 10th - 12th grade  Engineering and Mechanics (PLTW) 1 & 2** Principles of Eng. AND Physics/ AP Physics 10th - 12th grade  Engineering Design and Development (PLTW) 11th - 12th grade	UW Green Bay  UW Green Bay  UW Green Bay  UW Green Bay	Youth Apprenticeship 11th - 12th grade   Warhawk Manufacturing 12th grade	SkillsUSA

### TRANSPORTATION, DISTRIBUTION AND LOGISTICS

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	WORK BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORGANIZATION
Consumer Automotive 11th - 12th grade  Auto Tech I - 11th - 12th grade  Auto Tech II - 11th - 12th grade  Arrowhead Automotive - 12th grade	Advanced Automotive 12th grade	Youth Apprenticeship 11th - 12th grade	SkillsUSA

# CAREER AND TECHNICAL EDUCATION

## Vision

Career and Technical Education (CTE) provides comprehensive course offerings that prepare students for independent living, responsible citizenship, and career readiness. The culture of CTE encourages students to be engaged in applicable skills and knowledge, hands-on learning, and career-based learning experiences.

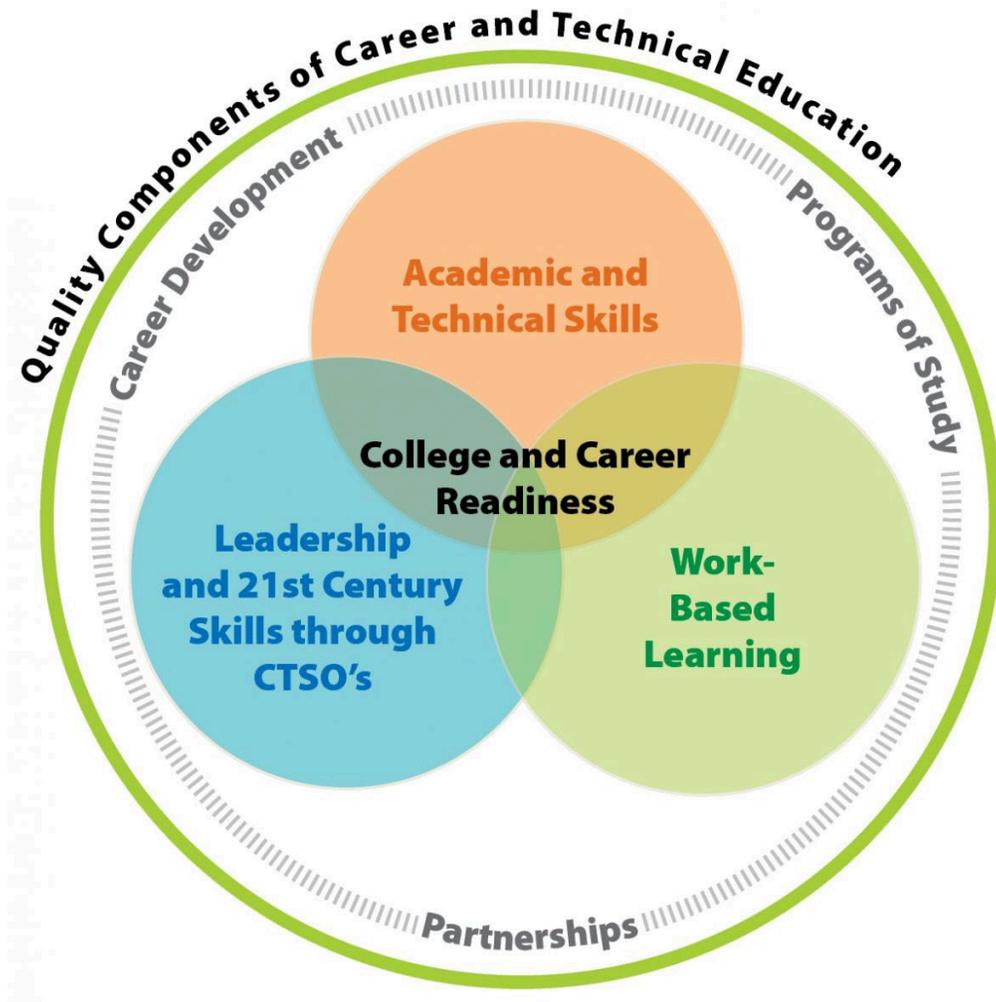
## Departments

Business & Marketing, Family & Consumer Science, Health Science, and Technology & Engineering

## Graduation Requirements

2 credits- Class of 2027

3 credits- Class of 2028 and beyond (1 must be Personal Finance)



## Department of Public Instruction states:

*"The benefits of a quality CTE program go well beyond the classroom. [Data](#) shows that students concentrating in CTE courses have better academic performance and higher graduation rates than the general school population. These outcomes ultimately lead to an improved economy, a skilled workforce, and healthy communities."*

# BUSINESS AND MARKETING

## Graduation Requirements:

Our mission is to offer Arrowhead students a comprehensive Business & Marketing program through Rigorous, Relevant, and Ever-Changing curriculum. Business and Marketing Education Department courses provide pathways to knowledge and skills needed to live and work in today's world: communication skills, work-based skills, and computer applications. Two credits of Career and Technical courses are required for graduation. This can be met by taking courses in the Business and Marketing, Family and Consumer Science, Health Science and Technology and Engineering departments.

Grade	Business Administration/ Management	Marketing & Sales	Finance/ Accounting	Information Technology
9	Introduction to Business Career & Employment Success Study Skills & Strategies	Introduction to Business	Introduction to Business	Multimedia/Graphics Applications
10	Introduction to Business Career & Employment Success Study Skills & Strategies	Introduction to Business Marketing & Business	Accounting 1 & 2 Personal Finance	Computer Essentials for Business Multimedia/Graphics Applications
11 & 12	Business Academy Business Law Personal Law Personal Finance Career & Employment Success Youth Apprenticeship	Business Academy Entrepreneurship Venture Marketing & Business Sales & Promotions Sports & Entertainment Management Youth Apprenticeship	Accounting 1 & 2 AP Microeconomics 1 & 2 College Accounting 1 & 2 Personal Finance Youth Apprenticeship	Computer Essentials for Business Multimedia/Graphic Applications Web Design Yearbook
College Level Credit Available		Entrepreneurship Venture	AP Microeconomics 1 & 2 College Accounting 1 & 2	



**Accounting 1 & 2****Grade Level** 10-12 **Credit** 2.0 **Duration** Year**Prerequisite(s):** None

Accounting 1 & 2 is a course intended for all students – for those intending to explore the field as a career, for those going into other occupations in the business world, and for those who want to learn record-keeping for personal use. This course provides an understanding of the basic elements and concepts of double-entry accounting systems. Students will acquire an in-depth knowledge of procedures and techniques utilized in solving business problems and making financial decisions. The complete accounting cycle, from the opening of the books to their closing at the end of the accounting period, will be covered. QuickBooks Pro and Excel will be used throughout the course to keep the financial records of a business.

**Advanced Placement Microeconomics 1 & 2****Grade Level** 11-12 **Credit** 2.0 **Duration** Year**Prerequisite(s):** None

Advanced Placement Microeconomics is a class designed to give students a thorough understanding of the principles of economics that affect the decision-making process of both consumers and producers within our economic system. The course covers basic economic concepts, supply and demand, product markets, factor markets, and the role of government in promoting greater equity and efficiency in the economy. The course is designed to help students develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students will be expected to apply economic logic to a wide variety of real-world and hypothetical situations. Solid reading and analytical skills are essential. Pre ACT STEM score of 23 is recommended for success in this course.

**Business Academy (NEW)****Grade Level:** 12 **Credit** 2.0 **Duration** Semester**Prerequisite(s):** None

Students (associates) enrolled in the Business Academy will engage in profession-based experiences in a dynamic business like setting working on authentic community partner-driven projects. Additional skills include application of business strategies, working in collaborative teams, and communicating results to business and industry partners in the Hartland area. Associates will learn fundamental concepts of economics, research best practices, persuasive techniques, public speaking and effective communication. In addition, skills will be gained in the following areas: innovation, entrepreneurship & sales, project management, teamwork, and data analysis; all designed for preparation for 21st-century workplaces

**Business Law****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Business Law is designed to inform students of their rights and obligations in business and personal encounters. Topics will include criminal and civil law, the state and federal court systems, the law of torts, ethics and values, as well as contracts and their elements. In addition, students conduct mock trials, listen to guest speakers, and discuss current legal issues pertaining to course content.

**Career & Employment Success****Grade Level** 9- 12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Career & Employment Success immerses students in the exploration of their strengths, different career paths, as well as building essential employability skills. The course provides an understanding of the job search and hiring process and allows students to effectively showcase their qualifications and further their career options. Students will prepare themselves to navigate the workplace by actively engaging in career development and skill enhancement.

**College Accounting 1 & 2****Grade Level** 11-12 **Credit** 2.0 **Duration** Year**Prerequisite(s):** Accounting 1 & 2

College Accounting 1 & 2 is a required course for all business majors in college. Participants who successfully complete the course receive three college credits in addition to the high school credit earned if enrolled in the CAPP program. College Accounting is designed to prepare students to pursue a variety of college business majors, including accounting, marketing, management, finance, international business, or economics. Primary areas of study include notes, receivables and payables, accruals and deferrals, depreciation, inventory calculation, bond and stock transactions, and the preparation of financial statements. The coverage of practical accounting procedures taught in this course will be integrated with the computer throughout the course using a variety of software including QuickBooks and Excel.

**College Personal Finance****Grade Level** 10-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None**Fee** CAPP college tuition at UW Oshkosh

Students in College Personal Finance (CAPP) will develop an understanding of financial skills and strategies. Students will increase their knowledge in areas of: personal decisions, banking, financial services, saving, investing strategies, taxes, credit, budgeting, housing options, car purchases, loan choices, and economic influences. Throughout the course, students will be presented with problem solving situations and project -based learning activities. While covering similar content to Personal Finance- this course is taught at a faster pace at the college level by a CAPP instructor. This course meets the Personal Finance graduation requirement .

**Computer Essentials for Business****Grade Level** 10-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Computer Essentials will provide a foundation for the ever-changing technology skills used in day-to-day life. Students will develop an understanding of word processing skills, spreadsheet skills, presentation software skills, as well as other Internet applications. Students will complete various projects and real-world simulations to develop a connection to technology use in the business and IT world. Career research and development will be done in IT fields and virtual field trips will be taken to dive deeper into various careers available to students in the IT industry. The overall goal of the course is to improve students' efficiency and skills while utilizing technology in a business and educational environment.

**Entrepreneurship Venture****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s)** None**CAPP credit with UW Oshkosh (optional)**

Entrepreneurship Venture is for students interested in starting their own business and focuses on the following topics: running a successful business, financing and managing a small business, including legal responsibilities, and marketing a small business. Career opportunities in the field of entrepreneurship will be discussed. A business plan is developed over the course of the semester for a business the student would like to potentially run in the future. In addition, students are highly encouraged to join DECA (an association of marketing students) where they may participate in activities including local and state leadership conferences, competitions, and other marketing community activities.

**Introduction to Business****Grade Level** 9-10 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Introduction to Business is an exploratory business course designed to expose students to the ins and outs of corporate America. Students will gather a basic understanding of general business terms and functions in areas including: business communications, economics, types of ownership, marketing, law, real estate, and business finance. Overall, the course gives students a broad exposure to business operations and a foundation for the additional business courses offered in the Business Department. This course gives students the option to enroll in DECA.

**Marketing and Business****Grade Level** 10-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Marketing & Business focuses on the marketing mix: product planning, pricing, promotion, place (distribution) and target marketing. Students develop a marketing plan for a product or service of their choice. Included is an introduction to social media marketing. Students can also work in the school store, either as a sales associate or manager. In addition, students are highly encouraged to join DECA (an association of marketing students) where they may participate in activities including local and state leadership conferences, competitions, and other marketing community activities.

**Multimedia/Graphics Applications****Grade Level** 9-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Students will combine various media (video, music, graphics, text, photo edition, and other online tools) with emphasis on video and video editing for communication and educational purposes to create a variety of unique projects. Students will connect these skills to also learn about various career options that allow for the incorporation of media in a business and marketing setting. Where applicable, students will begin to design media for our school or other client-based scenarios.

**Personal Finance****Grade Level** 10-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Personal Finance is designed to prepare students with the skills and knowledge needed to shape their financial futures. The course will provide a tool-kit of knowledge, resources and skills that will empower students to make informed financial decisions. Topics include income, money management, risk management, credit, banking (checking and savings), budgeting, taxes and investment options.

**PLEASE NOTE: All students in the class of 2028 and beyond must complete a Personal Finance course to meet graduation requirements.**

**Personal Law****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Personal Law prepares students for many of the changes they will experience when they are on their own. From getting married to purchasing a first home, this course will provide students with knowledge pertaining to legal rights and responsibilities so when they reach these life events they can plan accordingly. In addition, the course will prepare students for making smart choices as a consumer.

**Sales and Promotions****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Sales & Promotions introduces students to the principles and concepts of marketing communication. Focus is on the development and implementation of an effective promotion campaign and sales plan for their own business or product. Emphasis is on digital marketing, social media, marketing relationships, buyer motivation and behavior, selling strategy and sales management techniques. Students learn by “doing” including a real-life product demonstration. Students will be a part of the student organization DECA (an association of marketing students) and can work in the school store.

**Sports and Entertainment Management****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Sports & Entertainment Management focuses on marketing fundamentals and promotional strategies of sports and entertainment activities and events. Students explore marketing basics (functions, 4 P's Segmentations, Positions and research) through projects in class. They will do comprehensive assessments of sports and event marketing through the analysis of branding, venue and fan experience, promotions, sponsorships, public relations and SWOT analysis. Students will connect with industry professionals through guest speakers and field trips. Students are highly encouraged to join DECA where they can participate in competitive marketing activities.

**Study Skills and Strategies****Grade Level** 9-10 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Study Skills & Strategies introduces and reinforces the following: discovering your learning style, organization, test-taking strategies, time management, memory, concentration, goal setting, mindset, accountability, and critical thinking. Students will learn, practice, and apply these skills and strategies in order to become more successful in their classes.

**Web Design****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Webdesign will introduce students to the basics of website design and development. Students will learn a variety of design principles and apply those principles while learning to code HTML and CSS. Students will also receive an introduction and basic understanding of Adobe Dreamweaver and how it is used to create, publish, and manage websites. Beyond design, students will also focus on the fundamentals behind websites from obtaining a URL to site hosting to utilizing online free design programs. Course concepts will be applied through a variety of projects and students will leave the course with a web portfolio, demonstrating their work and skills.

**Youth Apprenticeship- Business****Grade Level** 11-12 **Credit** **Duration** Year**Prerequisite(s):** None

The Youth Apprenticeship – Finance program is designed for student who wish to further their skills related to a specific career in one of the following areas: Accounting, Banking or Insurance. Through the enrollment of the Youth Apprenticeship Program (YA), student will be mentored by professional outside of school and be paid for their employment. An approved employment location allows for students to complete a skills-based competency checklist that earns them a Wisconsin State Certificate of Completion.

For more information, please attend the YA information night and contact Brenda King: [king@arrowheadschoools.org](mailto:king@arrowheadschoools.org)

# FAMILY & CONSUMER EDUCATION

Course Offerings

## Graduation Requirements:

Family and Consumer Science courses offer Arrowhead students opportunities to develop skills to be Career Ready, Life Ready and Learner Ready. Our program includes exploration and preparation for careers related to fashion, culinary arts, education and training, and healthcare. Three credits of Career and Technical courses is required for graduation. This can be met by taking courses in the Business and Marketing, Family and Consumer Science, Health Science and Technology and Engineering departments.

Brenda King, Department Chair, 369-3611, Ext. 3128

Grade	Culinary Arts	Design	Education & Training
9	Food & Nutrition I Food & Nutrition II	Visual Arts Department Recommendations: 2 D Design Drawing & Illustration	Early Childhood Education
10	Food & Nutrition I Food & Nutrition I (Peer Mentor) Food & Nutrition II	Visual Arts Department Recommendations: 2D Design Drawing & Illustration	Early Childhood Education Food & Nutrition (Peer Mentor) Human Relations
11 and 12	Food & Nutrition I Food & Nutrition I (Peer Mentor) Food & Nutrition II International Cuisine Culinary	Interior Design	Early Childhood Education Human Relations Child Development Food and Nutrition (Peer Mentor) Educational Leadership



## Child Development

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (1st)

**Prerequisite(s):** None

Child Development is for students who want to be a positive influence in a child's life—through understanding child-related careers or being a parent. In the first half of the courses, students learn about reproductive health, infertility, prenatal growth and development, pregnancy, labor and delivery. In the second half of the course students study physical, intellectual, social and emotional development of infants and toddlers. Parenting, child guidance techniques, and family structures are included throughout the course.

## Culinary Foods

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (2nd)

**Prerequisite(s):** Food and Nutrition plus one other foods class

Culinary Foods will explore the techniques used to create culinary dishes through class projects and lab experiences. Class-based competitions such as Chili Contest, Cupcake Wars, and Food Truck Challenge provide opportunities for students to demonstrate understanding of ingredients and cooking skills. Students will study food industry principles as it relates to menu items such as appetizers, soups, entrees, and desserts.

## Early Childhood Education (NC or SC)

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester (2nd)

**Prerequisite(s):** None

The course focuses on the physical, intellectual, social and emotional development of children ages three through eight. Students will learn how to create and evaluate a safe and healthy environment for children and plan age-appropriate activities including healthy snacks/meals, art, reading, music, science, fine and gross motor experiences. Developmentally appropriate practices will be followed while developing a variety of learning activities for children ranging in ages 3-8. Careers associated with children will be highlighted including child care, education, healthcare and human services careers.

## Educational Leadership (NEW)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Successfully Completed Early Childhood Education (with a C- or higher) or teacher recommendation

This course is designed for students interested in the field of education. Students will gain hands-on experience by assisting in classroom settings, developing leadership, communication, and mentoring skills. In addition, the course provides foundational instruction in the history, structure, and current practices of education. Through classroom learning and field experience, students will better understand the role of educators and the impact of teaching on student growth and development. The leadership, collaboration, and organizational skills gained in this course are highly transferable and valuable in a wide range of industries, including business and community service.

## Food and Nutrition I

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Are you ready to embark on a culinary journey that not only enhances your kitchen skills but also nourishes your body and mind? This interactive course is designed to empower you with the knowledge, skills (cooking and baking techniques) and confidence to excel in the kitchen while exploring nutritious and delicious recipes.

## Food and Nutrition II

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Food and Nutrition I

Food & Nutrition II moves beyond the basics to build more complex food-preparation skills. Students will use concepts learned in Food and Nutrition I to take a deeper look at health, wellness, food trends and what is really in the food we eat. This course is recommended prior to taking International Cuisine.

## Human Relations

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

This course explores the principles of effective personal and interpersonal development based on The 7 Habits of Highly Effective People. Through discussions and self-reflection students will learn practical strategies for goal-setting, time-management, teamwork, and effective communication. Emphasis is placed on cultivating habits in responsibility, initiative, empathy and balance. Students learn tools to build stronger relationships, enhance personal leadership and make positive choices.

## Interior Design

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Interior Design is a project-based class. Students will develop skills to enable them to establish what makes an inviting environment. Topics include reading blueprints, creating color schemes, and exploring career possibilities. Principles of color, line, and form will be applied to room planning, arrangement, and design. Students will be encouraged to develop their own individual style preferences and create interior environments throughout the semester.

## International Cuisine

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Food and Nutrition I and **Highly recommended** Food and Nutrition II

### Formerly: World of Food

International Cuisine is designed for the experienced cook. Cultures and cuisines of the world provide the framework for learning new techniques of food preparation and new insights into healthier food choices. Areas of study include seven international cultures (China, Japan, Italy, France, Germany, Mexico & Spain) with possibly some regional cuisines of the U.S. Students choose a cuisine to research and present their information to the class using technology.

## Peer Mentor Food & Nutrition I (NEW)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Food and Nutrition I

In this hands-on class, students work together to learn cooking, nutrition, and kitchen safety skills in a supportive and inclusive environment. Peer mentors help guide their neurodivergent classmates, gaining leadership, communication, and teamwork experience along the way. The course builds confidence, independence, and real-world skills for all students. It's a great choice for those interested in education, healthcare, or human service careers—or anyone who wants to make a positive impact while learning to cook. Students interested in being a mentor will fill out an application. [APPLICATION TO BE A MENTOR.](#)

## Graduation Requirements:

Health Science (HS) provides opportunities for students to explore and prepare for a variety of careers such as medicine, nursing, physical therapy, dentistry, surgery, animal science, behavioral science and allied health careers. Students can gain valuable career information and network with professionals by participating in career-based learning experiences throughout our program. Our courses allow students to analyze aspects of healthcare practices and facilities while developing technical skills and health care competencies. There are also options to earn industry certifications. One credit of Career and Technical courses is required for graduation. This can be met by taking courses in the Business and Marketing, Family and Consumer Science, Health Science and Technology and Engineering departments. Health Science courses and recommended related courses with health science components.

Grade	Health Science Courses	Related Science Courses	Recommended Related Courses
9		Physical Science Physical Science / Biology Accelerated	Career & Employment Success Food & Nutrition Early Childhood Education
10	Health Occupations (Fall) Medical Terminology & Business Practices (Spring) Application Process for Youth Apprenticeship Program (Begins Early Spring)	Biology / Biology Accelerated Chemistry / Chemistry Accelerated	Career & Employment Success Food & Nutrition Human Relations Early Childhood Education
11	Health Occupations (Fall) Medical Terminology & Business Practices (Spring)	Anatomy & Physiology AP Biology AP Chemistry Chemistry / Chemistry Accelerated Chemistry for the Health Sciences	Career & Employment Success Food & Nutrition Human Relations Early Childhood Education
12	Health Occupations (Fall) Medical Terminology & Business Practices (Spring) Health Practicum (Full Year) EMT - B (Double block, Full Year)	Anatomy & Physiology AP Biology AP Chemistry Chemistry / Chemistry Accelerated Chemistry for the Health Sciences	Career & Employment Success Food & Nutrition Human Relations Early Childhood Education



**EMT-B****Grade Level** 12 **Credit:** 3 Credits **Duration** Year**Prerequisite(s):** Health Occupations or Medical Terminology & Business Practices**Required:** Application process occurs spring of junior year.

EMT-B is to be taught in accordance with the Wisconsin EMT-Basic Curriculum, which is based upon the National Emergency Medical Services Education Standards [document](#) and the National EMS Scope of Practice [document](#).

Emergency Medical Technicians' scope of practice includes basic, non-invasive interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. Emergency care is based on assessment findings. Additionally, Emergency Medical Technicians provide care to minimize secondary injury and provide comfort to the patient and family while transporting the patient to an emergency care facility.

**Health Occupations****Grade Level** 10-12 **Credit** 1.0 **Duration** 1st Semester**Prerequisite(s):** None

Health Occupations provides rich opportunities for students to examine a variety of medical and health-related careers. Healthcare professionals are used as guest speakers to present useful information to help students transition from high school to post-secondary education and/or get a jump start on their career while in high school. Valuable skills used in health care, including therapeutic communication, measuring vital signs, and functioning in a team environment will be taught. Students will develop sensitivity to the needs of patients. Students are required to complete one career-based learning experience (i.e.: job shadow, healthcare expo, career webinar, etc.) by the end of the semester. Completion of this course is a prerequisite for Health Practicum and the EMT-B course. It is also required if the student participates in the Health Youth Apprenticeship Program.

**Health Practicum 1 & 2****Grade Level** 12 **Credit:** 3.0 (1.5/Semester) **Duration** Year**Prerequisite(s):** Health Occupations**Highly Recommended:** Medical Terminology & Business Practices (Business)

Health Practicum is designed for students who wish to further their comprehension and skills related to health care professions. Units include disease pathology, supporting wellness through healthy eating, mental health and community resources, healthcare book study, and CPR/First Aid certification. Students will also advance employability skills and technical skills through the enrollment of either the Health-Youth Apprenticeship Program or the WI- Youth Leadership Program. These career-based learning experiences (internships or paid work experiences) can be customized to student's interests and personal schedules. Additionally, students have the opportunity to be engaged in community service learning or state competitions through HOSA: Future Health Professionals.

**Health Youth Apprenticeship 1 & 2****Grade Level** 11-12 **Credit:** Up to 4 credits **Duration** 2 Years

**Prerequisite(s) for CNA:** Completion of the Medical Terminology & Business Practices course and the Health Occupations course by the end of their junior year. Students must take Health Practicum during their senior year. Must be 16 years old before the first day of the CNA summer course.

**Certified Nursing Assistant (CNA):** Students must apply and be accepted into this two-year program during their sophomore year. The summer prior to their junior year, students will receive their CNA training at WCTC. Students must complete both Arrowhead's Medical Terminology & Business Practices course and the Health Occupations course during their sophomore or junior year. In addition, they are required to take the Health Practicum course during their senior year. Students will receive on-the-job training at a local health care facility. To receive an application, the student and parent must attend a mandatory informational meeting held in the spring. WCTC and Arrowhead credits may be earned through this program. \*Students must purchase uniform, class materials, and State certification test.

**Prerequisite(s) for Pharmacy Technician:** Completion of Health Occupations and Medical Terminology by end of junior year.

**Pharmacy Technician:** Offered junior or senior year. (Junior year as independent study, senior year through Health Practicum with work release time). Students must apply and be accepted in the spring of their sophomore or junior year. Full acceptance into the program is contingent on the ability to secure an approved job. This can be a one or two-year program, 2 credits.

**Prerequisite(s) for Dental Assistant:** Completion of Health Occupations and Medical Terminology by end of junior year.

**Dental Assistant:** Offered senior year through enrollment in the Health Practicum course. Students must apply and be accepted in the spring of their junior year or prior to senior year. Full acceptance into the program is contingent on the ability to secure an approved job. This is a one-year program, 2 credits.

**Medical Terminology and Business Practices****Grade Level** 10-12 **Credit** 1.0 **Duration** 2nd Semester**Prerequisite(s)** None

Medical Terminology & Business Practices is designed for students interested in a career in the health science field. The course includes instruction of over 200 medical terminology elements, resulting in students being able to know and use over 10,000 terms. This class also covers the business side of working in the medical field. Students learn professional communication, online scheduling, charting with SOAP notes, coding and billing. Upon mastery of the entry level skills, students will work in the Warhawk Health & Wellness Center. This hands-on experience gives students an opportunity to work in a simulated health clinic and take on the responsibilities of a Medical Assistant, Office Manager, Receptionist and Billing Clerk. Completion of this course is required if the student participates in the Health Youth Apprenticeship Program.

## Graduation Requirements:

The Technology and Engineering curriculum aims to successfully apply real-world skills by utilizing the latest technological trends and applications. Students can apply their knowledge to project work and advanced hands-on activities. The Technology and Engineering curriculum had been designed to nurture a greater understanding of engineering principles and problem-solving strategies while allowing students to develop manufacturing skills and techniques. Students are encouraged to explore offerings in manufacturing, engineering and automotive classes.

Arrowhead offers the nationally accredited Project Lead the Way (PLTW), which includes four courses. Students taking PLTW courses can earn dual credit (high school and college credit) through a partnership with the University of Wisconsin – Green Bay (CCHIS). The credits earned are transferable to UW system schools and many others.

Technology and Engineering course fees cover all class consumables (paper, toner, pencils, markers, etc.) All EXTRA materials, including materials for projects that the students take home, must be purchased by the student during the course. This includes materials like lumber, plastic, and metal. (Pricing lists are posted in each lab.)

Jeremy Schlitt and Anthony Christian, Department Chairs, 369-3612, Ext. 3258

Grade	Available Courses
9	<ul style="list-style-type: none"> <li>• Introduction to Engineering &amp; Manufacturing (IEM) 1 &amp; 2</li> <li>• Introduction to Engineering &amp; Manufacturing (IEM) 1 &amp; 2 - <b>Female Only</b></li> </ul>

## Manufacturing and Engineering Courses

- |    |  |
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| 10 | <ul style="list-style-type: none"> <li>• Manufacturing &amp; Engineering with Materials (MEM)1 &amp; 2</li> <li>• Introduction to Engineering &amp; Manufacturing (IEM) 1 &amp; 2</li> <li>• Introduction to Engineering &amp; Manufacturing (IEM) 1 &amp; 2 <b>Female Only</b></li> <li>• Engineering &amp; Mechanics 1 &amp; 2</li> <li>• Civil Engineering &amp; Architecture 1 &amp; 2</li> <li>• Machining 1 &amp; 2</li> </ul> |
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### Manufacturing Courses

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|-----------|--|
| 11 and 12 | <ul style="list-style-type: none"> <li>• Metal Fabrication I 1 &amp; 2</li> <li>• Metal Fabrication II 1 &amp; 2</li> <li>• Machining 1 &amp; 2</li> <li>• Woods Production I</li> <li>• Woods Production II</li> <li>• Cabinetmaking 1 &amp; 2</li> <li>• Technology &amp; Engineering Youth Apprenticeship 1 &amp; 2</li> <li>• Warhawk Manufacturing 1 &amp; 2</li> </ul> |
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### Engineering Courses

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|  | <ul style="list-style-type: none"> <li>• Civil Engineering &amp; Architecture 1 &amp; 2</li> <li>• Engineering &amp; Mechanics 1 &amp; 2</li> <li>• Engineering Design &amp; Development 1 &amp; 2</li> <li>• Technology &amp; Engineering Youth Apprenticeship 1 &amp; 2</li> </ul> |
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### Automotive Courses

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>• Consumer Auto</li> <li>• Consumer Auto-<b>Female Only</b></li> <li>• Automotive Technology I</li> <li>• Automotive Technology II</li> <li>• Advanced Automotive Technology</li> <li>• Arrowhead Automotive NEW</li> <li>• Technology &amp; Engineering Youth Apprenticeship 1 &amp; 2</li> </ul> |
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## Advanced Automotive Technology

**Grade Level** 12 **Credit** 2.0 **Duration** Semester -Daily Block

**Prerequisite(s):** 2 semesters of Autos or 1 semester Autos and Instructor's approval. *This class offers Youth Apprenticeship options through Automotive Service Excellence (ASE)*

The course is designed for students who want to expand their repair skills and prepare for a future career or college pathway in the automotive industry.

This course is transcripted for credit with WCTC and meets one block daily and build on prior experience for Auto Tech I and II. Students work with modern vehicles and diagnostic equipment while gaining advanced knowledge in all eight ASE areas (A1-8). The course emphasizes hand-on application, advanced repair techniques, and problem solving skills expected of professional technicians. Students explore career opportunities, certification options and pathways to employment or post-secondary automotive programs.

## Arrowhead Automotive (NEW)

**Grade Level** 12 **Credit** 2.0 **Duration** Semester -Alt Day

Blocks- meetings for two blocks

**Prerequisite(s):** Successful completion of Auto Tech II OR Advanced Automotive, AND Arrowhead Automotive Application

Arrowhead Automotive is a capstone, work-based learning course that replicates a professional automotive service facility within Arrowhead High School. Students rotate through authentic shop roles – Technician, Service Writer, Shop Manager, Parts Manager, and Quality Control Inspector – gaining both technical and business experience. The course emphasizes ASE Entry-Level (G1: Maintenance & Light Repair) certification readiness and beyond (A1-A8), advanced diagnostic skills, and professional communication through live customer vehicle service. Students develop employability ratings, manage shop operations, interact with real clients, and compile a professional portfolio including ASE/ALLDATA certifications, resumes, service documentation, and major project reflections. Assessments include performance-based live service work, ASE-style written exams, customer service evaluations, and portfolio reviews.

## Automotive Technology (I)

**Grade Level** 11- 12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Automotive Technology I introduces students to the fundamentals of modern vehicle systems through hands-on learning in a professional shop environment. Emphasis is placed on understanding and servicing today's vehicle using industry-standard tools and procedures. Students explore engine operation, transmission and drive systems, suspension, and steering fundamentals while performing live maintenance and inspection tasks on late-model vehicles. The first semester course focuses on ASE areas A1-4, developing essential mechanical and diagnostic skills while reinforcing safety, accuracy, and professionalism. Auto Tech I builds a strong foundation for the automotive pathway of courses.

## Automotive Technology (II)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Consumer Auto or Auto Technology (I)

Automotive Technology II expands on the skills developed in Auto Tech I with continued focus on modern vehicle technology and computer-controlled systems. Students gain hands-on experiences diagnosing and servicing brake systems, electrical and electronic circuits, heating and air-conditioning systems, and engine performance components using up-to-date diagnostic equipment. The course emphasizes problem-solving, scan tool use, and professional communication while performing real-world service tasks on late-model vehicles. Students complete the ALL DATA Certification (CAIS-Certified Automotive Information Specialist). Centered on ASE areas A5-A8 this course prepares students to for Advanced Auto Technology.

## Cabinetmaking 1 & 2

**Grade Level** 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Woods Production I

Cabinetmaking allows students to gain a complete understanding of the manufacturing and design process used to create products for the cabinetmaking industry. Students will interpret technical drawings and build a cabinet (nightstand) by safely using industrial machinery and modern woodworking techniques. Students will then utilize their prior knowledge to develop a product(s) of their own using the design process. Students will have the opportunity to earn their Sawblade and Core Certificates through the Woodwork Career Alliance by demonstrating knowledge of tools used in the woodworking industry.

## Civil Engineering & Architecture 1 & 2 (PLTW)

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Civil Engineering & Architecture (CEA) is a Project Lead the Way specialty course designed to provide students with an overview of Civil Engineering and Architecture and their relationship to one another. Students will build architectural models, use professional software Revit to design a residential house, and design a completely furnished library. Students will also understand the role of a Civil Engineer as they design a variety of developments such as a highway system, waterpark, or urban community. Potential for college credit.

## Consumer Auto

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

Consumer Auto is for anyone who owns or operates a car. This course will concentrate on light duty maintenance and minor repairs that nearly anyone can perform. Consumer Auto students will study the theory and practical application of automotive engines, heating and cooling, batteries, starting and charging, fuel and electrical, tires, bearings, and brake systems. This course cannot be taken with Automotive Technology.

## Engineering & Mechanics

**Grade Level** 10-12 **Credit** 4.0 **Duration** Year

**Prerequisite(s):** Completion or concurrent enrollment in Biology. Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II (AMS II)

*Students receive credit for Physics and Principles of Engineering (PLTW)*

Engineering & Mechanics is the first course within the Engineering Experience. It is for students interested in learning about physics and engineering in a project-based, hands-on learning environment. Students interested in engineering, manufacturing, and STEM-related fields enrolling in Physics should strongly consider taking the Engineering and Mechanics course. Credit is earned for both Physics and Principles of Engineering but creates an entirely different experience. Students can learn the essential physics ideas by applying real-world engineering problems such as constructing projectile launchers, bridge/truss designs, robotics and programming and more. Students who enroll in Engineering and Mechanics are not required to continue within the Engineering Experience. This course will serve as excellent preparation for the capstone experience, Engineering Design and Development.

Potential for college credit: We offer a dual credit option through the University of Wisconsin – Green Bay (CCIHS). Students can elect to earn three college credits through UWGB, which are transferable to all UW schools and many others. UWGB's equivalent course is ME 220: Mechanics of Materials. The process for earning credits take place with the instructors during the first week of class. Some students enrolling in Engineering and Mechanics would prefer to receive credit for AP Physics 1 instead of Physics. Students may select to have AP Physics 1 appear on their transcript, but must agree to take on additional work and are expected to take the AP Physics 1 exam. This process takes place with the instructor during the first week of class.

## Engineering Design & Development 1 & 2 (PLTW)

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Engineering & Mechanics or 2 - Technology and Engineering Courses (1 may be concurrent).

Engineering Design & Development (EDD) is a Project Lead the Way specialty capstone course designed to help students solve real-world problems while working in teams to research, design, and construct the final solution. The product development lifecycle and the design process will be used to guide and help the team solve the problem. Teams will present and defend a solution to a panel of outside Arrowhead area community and business representatives.

Potential for college credit. We offer a dual credit option through the University of Wisconsin – Green Bay (CCIHS). Students can elect to earn three college credits through UWGB, which are transferable to all UW schools and many others. UWGB's equivalent course is MET 207: Computer Aided Design. The process for earning credits take place with the instructors during the first week of class.

## Introduction to Engineering & Manufacturing 1 & 2 (SC) (PLTW)

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Introduction to Engineering & Manufacturing (IEM) is designed to introduce the fundamentals of both engineering and manufacturing. Students will use state of the art 3D modeling software, laser engravers, CNC routers, and 3D printers. Students will use problem solving skills to complete a variety of projects that they design, build, and test. IEM is offered to ALL students and is the recommended first course for all students interested in future Technology and Engineering Education courses. Potential for college credit

We offer a dual credit option through the University of Wisconsin – Green Bay (CCIHS). Students can elect to earn two college credits through UWGB, which are transferable to all UW schools and many others. UWGB's equivalent course is ET 101: Fundamentals of Engineering and Technology. The process for earning credits take place with the instructors during the first week of class.

## Manufacturing & Engineering with Materials 1 & 2

**Grade Level** 10 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Manufacturing & Engineering (MEM), is designed to offer students a foundation in manufacturing processes, through project-based learning. Students utilize wood, metal and other materials to create products. Students will 3D model, CNC program, weld, machine, and use woodworking manufacturing techniques. This course will help to show students the vital connections between engineering and manufacturing.

## Machining 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Machining is recommended for students interested in manufacturing and engineering. The course is designed to build fundamental skills for manual and computer numerical controlled machining (CNC). Students will translate information from technical drawings and instructions to create projects using industrial machinery and modern manufacturing practices. Students will be introduced to industry automation and learn to program and operate CNC machines. The course is project-based/application based. Students will learn about tool-making careers, Machining and Tool & Die.

## Metal Fabrication (I) 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Metals Fabrication (I) is a yearlong course that involves cutting, altering and shaping steel or other materials through the use of different tools, techniques and processes. Welding is used to fuse or join metal parts together. Fabrication and welding projects can involve simple, basic techniques, but they are all around us. From the chairs we sit on to the beds we sleep on, metal fabrication has been a part of that product's creation. Metals Fabrication will introduce safe and proper procedures of cutting, welding, fastening, and fabricating of metal. Students will learn print reading, layout, written specifications and material properties to create products from blueprints they design.

Potential for College Credit (Transcripted with WCTC)

## Metal Fabrication (II) 1 & 2

**Grade Level** 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Metal Fabrication (I)

Metal Fabrication (II) is a yearlong course that will introduce advanced cutting, welding, fastening, and fabricating of sheet metal to students as they create products from blueprints. Transitions, cones, boxes, trays and frames are examples of products students will create. Students will learn advanced print reading, layout, written specifications and material properties as they create products on the plasma CNC from blueprints or from their design.

## Principles of Engineering 1 & 2 (PLTW)

**Grade Level** **Credit** **Duration**

**Prerequisite(s):** To enroll in this course please see Engineering and Mechanics, this course is part of the Engineering Experience.

Principles of Engineering (POE) is a course designed to provide students with an understanding of the field of engineering and engineering technologies. This course makes science, technology and mathematics more engaging, interesting, concrete, and relevant. While providing a STEM-based education for all students, those interested in becoming practicing engineers clearly benefit from this course content. Numerous exciting hands-on design challenges will be completed to take students through all phases of the design process to bring their ideas from concept to working prototype. Students will utilize modern manufacturing techniques such as CNC milling, laser cutting and 3D printers to complete their design challenges and prototypes.

Potential for college credit ([link](#)) We offer a dual credit option through the University of Wisconsin – Green Bay (CCIHS). Students can elect to earn three college credits through UWGB, which are transferable to all UW school and many others. UWGB's equivalent course is ME 220: Mechanics of Materials. The process for earning credits take place with the instructors during the first week of class.

## Technology & Engineering Youth Apprenticeship 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Enrolled in one or more concurrent Technology and Engineering program pathway class(es).

The Technology & Engineering Youth Apprenticeship class is designed for students who wish to further their comprehension and skills related to a specific career in one of the following areas: Automotive, Building Trades, Manufacturing, Architecture, or STEM. Through the enrollment of the Youth Apprenticeship Program and WCTC, students will have the opportunity to be mentored by professionals outside of school and be paid for their employment. An approved employment location allows for students to complete a skills-based competency checklist to earn a Wisconsin State Certificate of Completion. For more information and/or to apply please contact: Brenda King: king@arrowheadschoools.org

## Warhawk Manufacturing 1 & 2

**Grade Level** 12 **Credit** 4.0 **Duration** Year

**Prerequisite(s):** Completion of one the following courses AND Instructor's approval-based on student portfolio AND interview: Engineering Mechanics, Machining I, Metal Fabrication I, Woods Production II, Business Experiences (courses). Every day block (84)

Warhawk Manufacturing is a student-run business that is run out of the North Campus Tech Ed area. Students will use previously learned skills from other classes that will help them contribute to the success of the business. The student employees will be responsible for quoting jobs, ordering material, manufacturing parts, quality control, shipping, receiving, invoicing, customer service, accounting, payroll, project management, maintaining equipment, and everything else it takes to run a business. Students earn profit sharing, scholarships, and credit toward high school graduation. Students who wish to be hired or accepted into the Warhawk Manufacturing program must apply and have completed prerequisites to be considered. This everyday block course is a way to foster a rich in-house work experience at Arrowhead.

## Woods Production (I)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

In Woods Production I, students will take their first steps into the world of woodworking by building their own footstool and end table. Students who are interested in woodworking, cabinetmaking or construction should consider this class. Student will learn how to read technical drawing and bring them to life using industrial machinery and modern woodworking techniques. There is a strong emphasis placed on safety, measuring, joinery, quality control, and computer-aided machining.

## Woods Production (II)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Woods Production I

Woods Production II is the follow-up to Woods Production I for students wishing for a year-long experience in woodworking. This course offers a comprehensive study and application of advanced woodworking processes. Students will continue to hone their skills and will construct a cabinet which contains a door and drawer. Students will learn the methods of installing door hinges and drawer slides. This is in an effort to create awareness of the industry and possible future employment opportunities. Students will also program operations on a CNC router to demonstrate technological advances in the wood products industry.

## Graduation Requirements:

A background in computer science principles provides students with specific programming skills and knowledge as well as experience with problem solving in a computational setting. Opportunities for continued study at the college level are numerous as are the pathways to careers that require computer literacy, coding and problem-solving skills. Students earn general elective credit for both Computer Science Methods and AP Computer Science A.

## AP Computer Science A (NC)

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B or better in Advanced Algebra and concurrent enrollment in Functions or Trig/Precalculus and a B or better in Computer Science Methods or an accepted Arrowhead Computer Science Application (which includes a passing grade on Arrowhead Computer Science Assessment) are required

AP Computer Science A is designed to prepare students to take the AP Computer Science test for college credit. The course is equivalent to a one semester college computer science class. The major focus of the course is on problem-solving strategies and elementary programming techniques. Using the Java programming language students study the object-oriented programming paradigm. Students will design and analyze programs that implement decision-making structures, looping, data structures, class design, Java library classes, and object interaction. The course highlights broader topics within computer science including the project development models and the ethical and social implications of computer use.

## Computer Science Methods (SC)

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** C or better in Geometry and concurrent enrollment in Advanced Algebra is required in order to ensure mastery of basic math concepts including functions, iterative processes, and problem-solving skills necessary for the course.

Computer Science Methods is designed to introduce students to the breadth of the field of computer science. The course is designed to focus on the conceptual ideas of computing and helps students understand how certain methods or languages might be utilized to solve problems. Fundamental programming concepts such as memory usage, decision structures, looping, and objects will be introduced primarily using a drag and drop programming language. Students will apply new skills to programming applications that will help them transition to text-based computer languages. The goal is to help students to develop the skills of algorithm development, problem solving and programming as they apply to a wide range of applications.

## Graduation Requirements:

The study of English includes reading, writing, speaking, and listening—the fundamental skills necessary for expression, interpretation, and communication. To function with self-confidence in today’s world, students will be expected and encouraged to use these skills to the best of their abilities.

The English Department has a varied curriculum to help develop these skills. To graduate from Arrowhead High School, students must pass eight credits of English including both semesters of English 9, English 10 and English 11. These requirements can also be met through English 9 Honors, English 10 Honors, and AP Language and Composition.

Parents and students can access [rationales](#) for any book taught in English courses by visiting the English Department page on the Arrowhead website.

Dave Gierach, Department Chair, 369-3611 x 3252

Grade	Available Courses
9	English 9 1 & 2 English 9 Honors 1 & 2 Literacy Through Film
10	British Literature English 10 1 & 2 Honors English 10 1 & 2 Literacy Through Film
11	English 11 1 & 2 AP Language & Composition 1 & 2 Literacy Through Film
11 and 12	Advanced Composition Advanced Speech A.P. English Language & Composition 1 & 2 A.P. English Literature 1 & 2 British Literature Composition Creative Writing Literacy Through Film Modern Literature Organizational Communication

## \*Advanced Composition

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s)** Composition or AP Language and Composition

Advanced Composition is a rigorous writing course that will build on and enhance the concepts taught in Composition. Students will further develop their own clear, coherent writing style, while producing publication-ready writing. Students will complete sustained research, synthesize and evaluate the credibility of sources, use citation styles appropriate to essay formats, and interact and collaborate with technology. Students will compile a portfolio of work including narrative, persuasive, analysis, on demand, research and syntheses.

## \*Advanced Placement English Language & Composition 1 & 2 (SC & NC)

**Grade Level** 11- 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** English 10 Honors or Junior Standing, Pre ACT score above a 22 in reading and a 23 in English are strong predictors of success.

Advanced Placement English Language & Composition is an intensive year-long course meant to replicate a college freshman English course in content, pace, and difficulty. Students will discuss, read, and write about personal, national, and international topics and issues while honing their analytical, synthesis, and argumentative skills. The majority of writing in this course will be timed, persuasive writing. Students who take this course must manage their time well, commit to being prepared, and be able to read and write a large volume of pieces. Students can earn dual credit through UW Oshkosh's CAPP program, as the content of AP Language and Composition aligns to UW Oshkosh's Writing 101 course.

### CAPP OPTION

University of Wisconsin - Oshkosh (CAPP) To be eligible to earn college credit, students must meet at least one of the following requirements: Class rank in the top 30% or GPA of 2.75 or above (on a 4.0 scale). Students who wish to earn college credit for a dual credit course are required to pay a fee.

AHS Course Name	HS Credit	College Credits	College Course #
AP Language and Composition	1	3	Writing 101

## \*Advanced Placement English Literature & Composition 1 & 2

**Grade Level** 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

*Recommended: British Literature or AP Language during the Junior year. 22 or higher on the Pre ACT reading and 24 in English Pre ACT would be an appropriate indicator of success in A.P. English.*

Advanced Placement English Literature & Composition is an intensive course meant to replicate a college freshman English course in content, pace, and difficulty. Students in this fast-paced course must have excellent writing and oral skills and must also read large volumes in a limited time. Intensive study of dramas, poetry, novels, and short stories will be considered in terms of their language, characters, theme, structure, and meaning. The majority of writing in this class will be timed, formal literary analysis.

Summer Reading: Students are expected to read several novels prior to the beginning of the course and attend one after-school meeting in late May for titles and instructions

## \*Advanced Speech

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

In Advanced Speech, students will improve their oral communication skills and confidence, while reducing their fears of speaking in public. Students will learn and apply strategies for preparing and presenting both formal and informal speeches. Emphasis will also be placed on peer critiquing of speeches. Students will deliver a wide variety of speeches, including critical analysis, informative, sales, persuasive, news reports, and more.

## \*British Literature (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

British Literature is a survey of the development of the language and literature of Great Britain. Major works include Beowulf, Geoffrey Chaucer (Canterbury Tales), Malory (The King Arthur Legend), Shakespeare, (sonnets and Macbeth), the Carpe Diem and Romantic poets, and George Orwell (1984).

This course is strongly recommended for students considering A.P. English Literature. A Lexile of 1300 is strongly recommended.

**\*Composition****Grade Level** 11-12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Composition is a rigorous course that will focus on the writing process. This will include the concepts of writing well: brevity, clarity, word choice, mechanics, voice, style, organization, audience, and paragraph development. Students will also study vocabulary with application to ACT-timed writing. The course will provide a background in writing formats, determining purposes, punctuation, and grammar. Students will compile a portfolio of work including narrative, informative, explanatory, impromptu, and opinion pieces.

**\*Creative Writing****Grade Level** 11- 12 **Credit** 1.0 **Duration** Semester**Prerequisite(s):** None

Creative Writing is for students who enjoy writing for a variety of audiences—or for students who enjoy expression through writing. This course focuses on writing for a purpose (submitting and publishing pieces). Creative Writing content may include poetry, drama, short stories, humor, satire or parody, feature pieces, children’s writing, and journaling.

**\*English 9 1 & 2****Grade Level** 9 **Credit** 2.0 **Duration** Year**Prerequisite(s):** None

Students enrolled in English 9 will focus on grammar skills, writing and mechanics, reading, research, and speech. The course content and teaching methods are designed to appeal to all students. Students will learn college and career skills. English 9 or English 9 Honors is required for graduation.

**\*English 10 1 & 2****Grade Level** 10 **Credit** 2.0 **Duration** Year**Prerequisite(s):** None

English 10 focuses on grammar skills, writing and mechanics, reading and speech. The course content and teaching methods are designed to appeal to all students. Students will learn about college and career skills. English 10 or Honors English 10 is required for graduation.

**\*English 11 1 & 2****Grade Level** 11 **Credit** 2.0 **Duration** Year**Prerequisite(s):** None

English 11 students will read, respond to, and reflect upon literary and informational texts as they explore facets of the World Literature. Thematic selections include novels, short stories, poems, biographies, critical commentaries, films, and other media. Additional focus areas include comprehension strategies, grammar study, and impromptu writing. Students’ understanding of each unit’s content and skills will be measured through formative and summative assessments. English 11 or AP Language and Composition is required for graduation.

**\*English 9 Honors 1 & 2****Grade Level** 9 **Credit** 2.0 **Duration** Year**Prerequisite(s):** Pre- ACT test is required. A 22 in reading, an 18 in English, and/or a Lexile score of 1200 is a strong predictor of success in English 9 Honors

English 9 Honors 1 & 2 is an intensive year-long course designed for students intending on taking AP English courses as early as the sophomore year. The course provides accelerated learning of skills taught in English 9 and English 10 including analysis and synthesis of complex fiction and nonfiction texts, writing for a variety of purposes and audiences, and informal and formal discussions and speech presentations. Students who take direction well, manage their time, commit to being prepared, and are motivated to challenge themselves with complex reading and writing will find success in this course. English 9 or English 9 Honors is required for graduation.

**\*English 10 Honors 1 & 2****Grade Level** 10 **Credit** 2.0 **Duration** Year**Prerequisite(s):** English 9 Honors or the following criteria: Pre ACT- Reading Score of 22, Pre ACT-English Score of 18 Lor, Written recommendation from English 9 teacher.

English 10 Honors 1 & 2 is an intensive year-long course designed for students intending on taking AP English courses. The course provides accelerated learning of skills taught in English 10 and an introduction to the skills taught in AP courses including analysis and synthesis of complex fiction and nonfiction texts, writing for a variety of purposes and audiences, and informal and formal discussions and presentations. Students will be expected to complete summer homework and maintain a writing portfolio throughout the school year. Students who take direction well, manage their time, commit to being prepared, and are motivated to challenge themselves with complex reading and writing will find success in this course. English 10 or English 10 Honors is required for graduation.

**\*Literacy Through Film**

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

This course explores the powerful connection between literature and film as students analyze, interpret, and evaluate stories across both written and visual mediums. Through the study of classic and contemporary films alongside short stories, novels, plays, and poetry, students will deepen their understanding of literary elements such as theme, character, setting, symbolism, and narrative structure. Special emphasis will be placed on the role of the filmmaker as author, examining directorial choices, cinematic techniques, and visual storytelling as expressions of artistic intent and voice—much like a novelist, poet, or playwright. The course emphasizes critical thinking, media literacy, and analytical writing, helping students develop their ability to “read” films as texts and understand how storytelling shifts across mediums. Assignments will include film reviews, comparative essays, creative projects, and class discussions that engage with both the literary and cinematic aspects of storytelling.

This course is ideal for students who are curious about both the written and visual world of storytelling and want to explore the connections between the two in a creative and critical way. Students view films such as: *The Hobbit* and *the Wizard of Oz*.

**\*Modern Literature**

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

In Modern Literature, students read award-winning, contemporary novels from a wide range of genres, at an average pace of 30 pages per night. Students learn how to apply literary and other critical terms to analyze multiple texts. Students synthesize a common idea between all texts and practice both oral and written communication skills. Modern Literature addresses current topics which may be sensitive.

**\*Organizational Communication**

**Grade Level** 11- 12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Organizational Communication is a group- and presentation-driven course where students learn to analyze audience, mode, and visual design of message. Students will deliver polished, professional presentations on a variety of topics to strategically-chosen audiences. Students will gain experience in focused technical writing through memos and reports. Organizational Communication is an examination and analysis of communication theories within the framework of an organization. Attention will be given to strategies for diagnosing and effecting change in communication behaviors. Students will learn the major theories of organizational communication, identifying and defining primary concepts. The role of technology, corporate culture, leadership, teamwork, ethics, and diversity in communication is examined.

Two fine arts credits are required for graduation. Fine Arts credits can be taken in any combination from Acting, Music and Visual Arts.

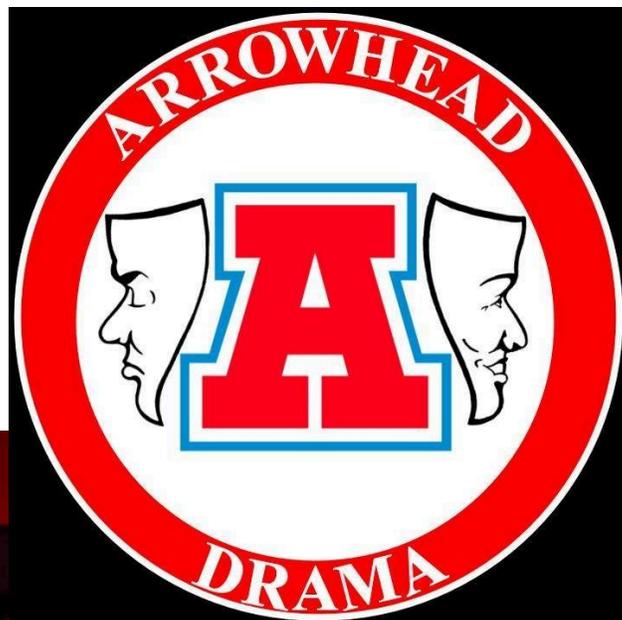
## Acting (NC)

**Grade Level** 10-12 **Credit** 1.0 (Fine Arts)

**Duration** Semester (either)

**Prerequisite(s):** None

Acting class begins with the basics: participation in theatre games and improvisation exercises. Later, students will increase their acting skills by presenting several monologues and scenes from various genres and time periods. Also, students will read, view, and analyze scenes and plays.



## Graduation Requirements:

The music department is designed to provide all vocal and instrumental students with meaningful and artistic opportunities, encouraging a lasting appreciation for the arts. Music courses may carry a \$25 to \$50 class/year fee. Students are required to take 2 credits of fine arts for graduation. They may be met by arts, music, theater or video production courses. \*All music classes are year-long.

## Instrumental Music

The instrumental music program is open to students who play wind, string, or percussion instruments. Students wishing to join must audition each spring to ensure proper placement in the various ensembles for the upcoming school year. Students with no prior instrumental experience may enroll only with approval from the instrumental music director. All students in performing ensembles are expected to attend all scheduled performances throughout the school year. Members of the Concert Band, Symphonic Band, Jazz Ensemble, and Wind Ensemble are also required to participate in one Marching Band performance or game for their first semester performance grade and three Pep Band performances or games for their second semester performance grade.

## Choral Music

Choral Music is open to students with an ability and interest in singing. In all of the Arrowhead Choirs teamwork and self-discipline are expected. This disciplined, cooperative approach is combined with an emphasis on professionalism and musical excellence. Each choir gains knowledge in music theory and terminology and a variety of musical styles including madrigals, barbershop quartets, vocal jazz, and standard choral repertoire. All students enrolled are expected to participate in all of the scheduled performances including a concert event. There are additional extracurricular opportunities throughout the year for students wishing to perform further. These opportunities may include the Wisconsin School Music Association State Honors Choir (WSMA), WSMA Solo and Ensemble and other events that may arise. Extra events are not required and are prepared on an individual basis by the student outside of the choral classroom. Three of the groups require an audition – South Select, North Choir (both junior and senior year), and Broadway Company. It is expected that all students choosing to be a part of the choral music program will participate in an audition process each spring semester in order to allow for proper placement for South Select, North Choir, and Broadway Company for the coming school year.

## General Music

General Music classes include Music Foundations and Music Production. The goal of the Music Foundations course is to help students become better musicians through the study and practice of music theory and history. By the end of the course, students should be able to visually and aurally analyze music, write music in a variety of compositional styles, understand a basic historical progression of music and culture, and better internalize music through ear-training. Music Production allows students to create and express themselves through songwriting, recording, technology, real-life music situations, industry-related problem-solving, and collaboration.

Jacob Polancich, Department Chair, 369-3612, Ext. 3117

Grade	Choral Music	Instrumental Music	General Music
9	Baritone Chorale (boys) Broadway Company—Audition Treble Choir (girls)	Concert Band Jazz Ensemble— Audition Symphonic Band South - Audition Wind Ensemble – Audition	Music Foundations Music Production Music Through Film (NEW)
10	Baritone Chorale (boys) Broadway Company—Audition South Select—Audition Treble Choir (girls)	Concert Band Jazz Ensemble—Audition Symphonic Band South —Audition Wind Ensemble—Audition	Music Foundations Music Production Music Through Film (NEW)
11 and 12	North Concert Choir—Audition Broadway Company—Audition	Concert Band Jazz Ensemble- Audition Symphonic Band North - Audition Wind Ensemble - Audition	Music Foundations Music Production Music Through Film (NEW)

## Baritone Chorale 1 & 2

**Grade Level** 9-10 boys **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Students study vocal production and learn to access their falsetto voice and identify bass, baritone, tenor, and falsetto ranges. In addition, students will learn the fundamental elements of reading music. Students singing in this ensemble present two concerts per year. Additional extracurricular performances may include WSMA State Honors Choir auditions, WSMA Solo and Ensemble, and other performance opportunities. Any preparation for solo work/auditions is primarily done individually by the student outside of the choral classroom. If there are ensembles representing this course at the WSMA Solo and Ensemble, they will be put together by the instructor.

## Broadway Company 1 & 2 (NC)

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Current membership in an auditioned choral ensemble and a vocal/dance audition.

Broadway Company is an auditioned ensemble devoted to the performance of musical theater. This class has an extensive rehearsal schedule outside of the school day. Students are required to participate in all scheduled Broadway Company Performances. These performances include the annual musical, musical theater nights, holiday caroling, choir concerts, and other performances scheduled throughout the year. Students present 2-3 solo projects in master class format. This format includes direct feedback from peers and the instructors. Students in Broadway Company are committed to being part of a group regardless of roles, solos or features.

## Concert Band 1 & 2

**Grade Level** 9-11 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Concert Band is a comprehensive and standards-based class composed of wind and percussion players who have demonstrated a developmental level of ability on their instrument. Students will expand their understanding of fundamentals, music concepts, and technique on his or her instrument. This class prepares students and the class as a whole for concerts, small ensemble work, and solo playing opportunities. Each member of this ensemble must perform at one scheduled game for their first semester performance grade and three scheduled Pep Band games for their second semester performance grade.

## Music Foundations

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

The goal of this course is to help students become better musicians through the study and practice of music theory and history. By the end of the course, students should be able to visually and aurally analyze music, write music in a variety of compositional styles, understand a basic historical progression of music and culture, and better internalize music through ear-training. While this is not an A.P. class, students will have the opportunity to take the A.P. test in May. Students interested in pursuing a career in music, developing songwriting skills or enhancing abilities on a particular voice or instrument should enroll in this class.

## Music Production

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Music Production allows students to create and express themselves through songwriting, recording, technology, real-life music situations, industry-related problem-solving, and collaboration. Students will become familiar with the elements of music used to analyze, compose, and arrange. This class will result in a portfolio of musical arrangements and compositions to demonstrate competencies in skills related to production. Students interested in pursuing a career in music, developing songwriting skills or enhancing abilities on a particular voice or instrument should enroll in this class.

## North Concert Choir 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Audition

Students will sing challenging choral literature spanning 4-8 + choral parts. This literature requires students to be independent musicians capable of singing their parts against other sections. Students continue to build on sight reading as well as vocal techniques. Students are expected to participate in two choir concerts in a school year. Additional extracurricular performances may include WSMA State Honors Choir auditions, WSMA Solo and Ensemble, and other performance opportunities. Any preparation for solo work/auditions is primarily done individually by the student outside of the choral classroom. If there are ensembles representing this course at the WSMA Solo and Ensemble, they will be put together by the instructor.

## Music Through Film (NEW)

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

This course invites students to explore the powerful role music plays in storytelling through film. Students will analyze how composers use music to convey mood, theme, character, and culture. By engaging with a wide range of genres and diverse composers, students will build musical and media literacy, listening skills, and creative expression.

## Jazz Ensemble 1 & 2 (NC)

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Audition

Jazz Ensemble is an auditioned, skills-oriented class comprised of select wind, percussion, guitar, bass, and piano players. The ensemble instrumentation may vary slightly from year-to-year. Each student will work on advanced music skills with an emphasis on jazz theory, improvisation, jazz history, and ensemble awareness. Students in this ensemble maintain a more extensive performance schedule throughout the year. Each member of this ensemble must perform at one scheduled game for their first semester performance grade and three scheduled Pep Band games for their second semester performance grade.

## South Select Ensemble 1 & 2

**Grade Level** 10 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Must have completed one year in either Treble Choir or Baritone Chorale AND an Audition

Students study challenging choral literature that spans 3-4+ choral parts. Students continue to build on sight reading and vocal techniques. Students are expected to participate in 2 concerts in the school year. Additional extracurricular performances may include WSMA State Honors Choir auditions, WSMA Solo and Ensemble, and other performance opportunities. Any preparation for solo work/auditions is primarily done individually by the student outside of the choral classroom. IF there are ensembles representing this course at the WSMA Solo and Ensemble, they will be put together by the instructor.

## Symphonic Band 1 & 2 (SC/NC)

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

The Symphonic Band is a comprehensive and standards-based class consisting of grades 9-12. Students will expand their understanding of fundamentals, music concepts, and technique on his or her instrument. Symphonic Band prepares students and the class as a whole for concerts, festivals, chamber music, and solo playing opportunities. Students are expected to fully prepare all parts individually outside of class to promote ensemble awareness within the rehearsal. Students are only accepted into this class upon completion of a successful audition. Each member of this ensemble must perform at one scheduled game for their first semester performance grade and three scheduled Pep Band games for their second semester performance grade.

## Treble Choir 1 & 2

**Grade Level** 9-12 girls **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Students study vocal production and the difference in the treble register and quality choral sounds. Students will also learn the fundamental elements of reading music. Students are expected to participate in two concerts in the school year. Additional extracurricular performances may include WSMA State Honors Choir auditions, WSMA Solo and Ensemble, and other performance opportunities. Any preparation for solo work/auditions is primarily done individually by the student outside of the choral classroom. IF there are ensembles representing this course at the WSMA Solo and Ensemble, they will be put together by the instructor.

## Wind Ensemble 1 & 2 (NC)

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Audition

The Wind Ensemble is a comprehensive and standards-based class consisting of grades 9-12 and is the most advanced group of wind and percussion students in Arrowhead's Instrumental Music Program. Each student will work on general music skills and specific technical aspects of his or her instrument. This class will help prepare each student and ensemble for concerts, festivals, chamber music, and solo playing opportunities. Students are expected to fully prepare all parts before the first in-depth rehearsals may begin on that particular piece. Students are only accepted into this class upon completion of a successful audition. Each member of this ensemble must perform at one scheduled game for their first semester performance grade and three scheduled Pep Band games for their second semester performance grade.

# FINE ARTS: VISUAL ARTS

## Graduation Requirements: 2 Fine Arts Credits

The Art Department aims to provide a balanced education for all students with an emphasis on:

- student engagement
- creative expression
- innovative thinking
- design problem-solving
- personal development
- increased visual literacy
- digital communication

3 main areas of growth include:

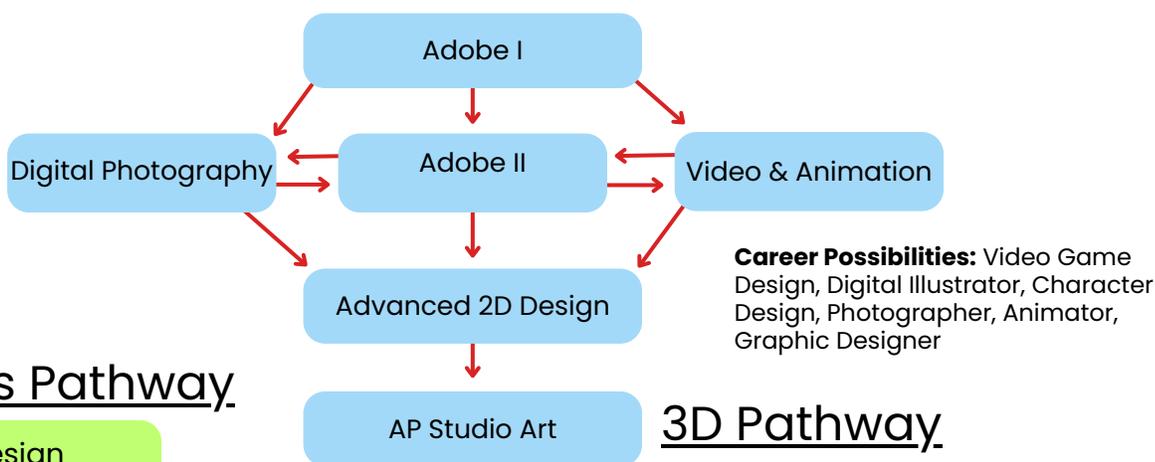
**Design Thinking** – The foundations for organization of visual images.

**Creative Process** – This process teaches students how to develop new, original ideas, apply them, and reflect on the outcome. This process is an effective tool in all types of problem-solving. Through this process of creating, revising, displaying and publishing their work, students experience the process used to be creative and innovative.

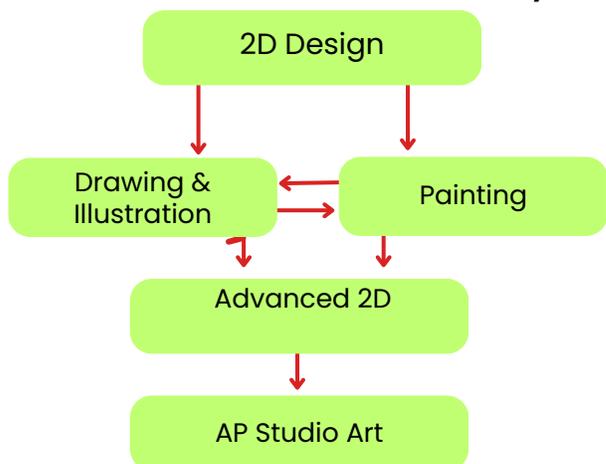
**Visual Literacy** – Students learn to communicate through the use of images and are able to analyze, evaluate, interpret, critique and make informed judgments about their own work and the work of others. Two credits of fine arts are required for graduation. This requirement may be met in art, music, or theater courses.

## Art Pathways

### 2D Digital Pathway

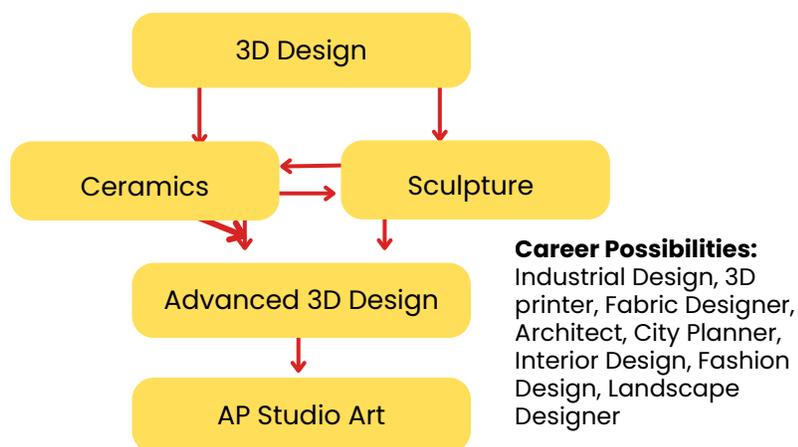


### 2D Fine Arts Pathway



**Career Possibilities:** Storyboard designer, Art Therapist, Multimedia Specialist, Communication media, Producer & Director, Systems Designer, Art Teacher

### 3D Pathway



**Career Possibilities:** Industrial Design, 3D printer, Fabric Designer, Architect, City Planner, Interior Design, Fashion Design, Landscape Designer

# FINE ARTS: VISUAL ARTS

GRADE	2D FINE ART COURSES	DIGITAL DESIGN COURSES	3D ART COURSES
9	<ul style="list-style-type: none"> <li>2D Design or Peer Mentor 2D (Prerequisite for all other 2D &amp; 3D courses)</li> <li>Drawing &amp; Illustration (2nd Semester only)</li> </ul>	<ul style="list-style-type: none"> <li>Adobe I (Prerequisite for all digital classes)</li> <li>Adobe II</li> <li>Photography (2nd Semester only)</li> <li>Video &amp; Animation</li> </ul>	<ul style="list-style-type: none"> <li>3D Design Peer Mentor 3D (Prerequisite for all 2D &amp; 3D courses)</li> <li>Ceramics (2nd Semester only)</li> </ul>
10	<ul style="list-style-type: none"> <li>2D Design (Prerequisite for all other 2D &amp; 3D courses)</li> <li>Drawing &amp; Illustration</li> <li>Painting Studio (NC)</li> <li>Advanced 2D (NC)</li> </ul>	<ul style="list-style-type: none"> <li>Adobe I (Prerequisite for all digital classes)</li> <li>Photography</li> <li>Adobe II</li> <li>Video &amp; Animation</li> </ul>	<ul style="list-style-type: none"> <li>3D Design (Prerequisite for all other 2D &amp; 3D courses)</li> <li>Ceramics</li> <li>Sculpture (NC)</li> <li>Advanced 3D (NC)</li> </ul>
11	<ul style="list-style-type: none"> <li>Art Seminar (for students without a prior art class)</li> <li>Drawing &amp; Illustration</li> <li>Painting Studio (NC)</li> <li>Advanced 2D</li> <li>AP Studio Art</li> <li>Peer Mentor 2D</li> </ul>	<ul style="list-style-type: none"> <li>Adobe I (Prerequisite for all digital classes)</li> <li>Photography</li> <li>Adobe II</li> <li>Advanced 2D Design</li> <li>Video &amp; Animation</li> <li>AP Art Studio</li> </ul>	<ul style="list-style-type: none"> <li>Art Seminar (for students without a prior art class)</li> <li>3D</li> <li>Peer Mentor 3D</li> <li>Ceramics</li> <li>Sculpture</li> <li>Advanced 3D</li> <li>AP Studio Art</li> </ul>
12	<ul style="list-style-type: none"> <li>Art Seminar (for students without a prior art class)</li> <li>Peer Mentor 2D</li> <li>Drawing &amp; Illustration</li> <li>Painting Studio (NC)</li> <li>Advanced 3D</li> <li>AP Studio Art</li> </ul>	<ul style="list-style-type: none"> <li>Adobe I (Prerequisite for all digital classes)</li> <li>Photography</li> <li>Adobe II</li> <li>Advanced 2D Design</li> <li>Video &amp; Animation</li> <li>AP Art Studio</li> </ul>	<ul style="list-style-type: none"> <li>Art Seminar (for students without a prior art class)</li> <li>Peer Mentor 3D</li> <li>Ceramics</li> <li>Sculpture</li> <li>Advanced 3D</li> <li>AP Studio Art</li> </ul>



Adobe  
Photoshop  
Certification



Adobe  
Illustrator  
Certification



Adobe  
Premier Pro  
Certification

## 2D Design (SC)

**Grade Level** 9-10 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Students explore 2D Design through drawing and painting, and other 2D art forms. Students will use artwork to express ideas, improve visual literacy, and critique visual images.

## 3D Design (SC)

**Grade Level** 9-10 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Students explore 3D Design by building sculptures in clay, metal and glass and other 3D art forms. Students will use artwork to express ideas, improve visual literacy, and critique visual images.

## Advanced 2D (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Successful completion of any art class.

Advanced 2D Design combines the technical skills with the creative process learned in previous art classes to provide students' choice in mediums, subject matter, and style of art. In this class, there is critical thinking, visual research, design, and critique as a means of evaluating and creating works of art. Students will be given themes in art to investigate composition, style, and the artist's view of the world. Emphasis is placed on contemplation of ideas, ethics, content, and self-awareness as an artist. Students are expected to think critically about what artwork is worth creating and use the creative process to produce artwork.

## Adobe I

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Students will become experts in Adobe Photoshop, demonstrating their skills to create digitally by taking the Visual Communication Exam in Photoshop. Passing the exam results in internationally recognized certification in Visual Design with Photoshop



## Adobe II

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Adobe I

Students will become experts in Adobe Illustrator and validate their knowledge using the world's leading vector graphics software. Passing the Illustrator exam results in internationally recognized certification in Graphic Design & Illustration with AI. Pr. Level Up: Two Certifications will earn another certification: combine your Photoshop and Illustrator certification to receive an additional Specialty Credential and gain recognition as an Adobe Certified Professional in Visual Design with Adobe Illustrator.



## Advanced 3D Design (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Successful completion of any art class.

Students create a personalized body of artwork that communicates their investigation into 3D design solutions. With an emphasis in pottery, students are empowered to have a more personal voice and style of work in this advanced course. Students use critical thinking, research, design, and critique work of art in order to grow as a 3-dimensional artist. This course meets the prerequisite for AP Studio Art.

## AP Studio Art (NC)

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Advanced level art courses highly recommended or teacher recommendation.

Advanced Placement Studio Art students pursue and have potential receive credit for college-level course work. A.P. Studio Art is based on a digital portfolio; the compilation of students' work centered on a theme. Students are given considerable freedom to explore their own artistic interests and strengths; they research ideas, techniques, methods so that finish works reflect the technique and mastery of a first year college student. The course requires a student to be self-motivated and requires work time outside of the class period to complete the portfolio.

## Art Seminar (NC)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** (should not have a prior art course)

This class is designed for juniors and seniors who have not taken art at Arrowhead. The goal of this introductory course is to expose students to 2-dimensional and 3-dimensional art forms. Students will learn about the creative process using many different art materials.

## Ceramics

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** 3D Design or Art Seminar

Students will continue to explore 3D art through clay. Students develop their technical skills with hand-building and wheel-thrown projects.

## Digital Photography

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Adobe Graphic Design I

Students enrolled in Digital Photography will explore photography techniques. Students will practice lighting and composition while deepening their Adobe Photoshop skills.

## Drawing & Illustration

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Successful completion of Art Seminar or 2D Design

Drawing and Illustration is designed to continue to enhance the skills and knowledge gained in 2D Design. There is an emphasis on experimentation with media, critical thinking, research, design and critiques as a means of evaluating and looking at works of art.

## Painting Studio (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Successful completion of any art class

Painting Studio is designed to continue and enhance the skills and knowledge gained through 2D Design. Students will investigate techniques for painting to further their skill and creativity in using a variety of painting mediums. There is an emphasis on experimentation with media, critical thinking, research, design and critiques as a means of evaluating and looking at works of art.

## Peer Mentor Art (2D)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite (s) :**

Recommended 2-D

This class is for students interested in learning the skills and concepts related to two-dimensional art while supporting other students as a peer mentor. Students enrolled will be learning while supporting other students who need adaptive art education in an inclusive environment. The environment with peer mentors is evidence-based and has a great overall positive impact on student growth and achievement in this area. [APPLICATION TO BE A MENTOR](#)

## Peer Mentor Art (3D)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):**

Recommended 3-D

This class is for students interested in learning the skills and concepts related to three-dimensional art while supporting other students as a peer mentor. Students enrolled will be learning while supporting other students who need adaptive art education in an inclusive environment. The environment with peer mentors is evidence-based and has a great overall positive impact on student growth and achievement in this area. [APPLICATION TO BE A MENTOR](#)

## Sculpture (NC)

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** 3D Design or Art Seminar

Students will further develop their artistic voice in the construction of 3D sculpture. Students investigate figurative, kinetic/movement -based, electrical lighting, model-making and concept vehicle design. Students use mixed media to create unique solutions to design problems. This class provides tactile experiences found in the professional design world. This class meets the prerequisite for Advanced 3D Design.

## Video & Animation

**Grade Level** 9-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** Adobe Graphic Design I

Students will become experts in Adobe Premiere Pro and validate their knowledge and skills through digital video editing film, television and the web. Passing the exam results in internationally recognized certification in Adobe Premier Pro. Students will learn the principles of animation by studying both traditional and computer animation; including flip books, stop motion, and frame by frame computers.



# GENERAL ELECTIVES

Grade	Available Courses
9	The Leader's Mindset Literacy Through Film (NEW)
10	#Acting (this class is considered a Fine Arts credit) The Leader's Mindset Journalism Leadership II Literacy Through Film (NEW)
11 and 12	College Strategies Computer Science Coaching & Officiating Global Capstone Global Seminar Journalism Literacy Through Film (NEW) Social Studies Through Film (NEW) Yearbook 1 & 2

## Acting (NC)

**Grade Level** 10-12 **Credit** 1.0 (Fine Arts)

**Duration** Semester (either)

**Prerequisite(s):** None

Acting class begins with the basics: participation in theatre games and improvisation exercises. Later, students will increase their acting skills by presenting several monologues and scenes from various genres and time periods. Also, students will read, view, and analyze scenes and plays.

## Coaching & Officiating

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

This course is designed to develop an appreciation and increased understanding of sport in American society. The course will offer the student the chance to study the philosophy, psychology, motivation, and rewards of coaching, as well as focus on officiating and personal wellness. Any person who appreciates or is involved in athletics will enjoy the course.

## College Strategies

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

College Strategies is designed for the motivated, college-bound student. This course includes practice in the types of reading college students need: fiction and nonfiction. The goal of the course is to improve comprehension through pre-reading, during-reading and post-reading strategies. College Strategies uses assigned reading materials to improve test-taking strategies, comprehension, and reading rate. College Strategies will also focus on everything students need to be successful in college. This course does not count as an English credit toward graduation nor is it accepted as a college preparatory course.

## Journalism 1 & 2 (NC)

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Sports, features, news, and editorial columns are all essential in putting together a quality newspaper; students will be taught how to report in each of these sections. The class is responsible for the production of the school newspaper, The Arrowhead. Students who show leadership will be given the roles of print editors. Students are expected to enroll in the course for the full year. Journalism does not qualify as an English or Fine Arts credit for graduation, but qualifies as a general elective.

## Leadership II

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** The Leader's Mindset (teacher recommendation)

Leadership II will emphasize character, relationship building and learning to work from the inside out. Students will become more self-aware and be able to translate that awareness into how to lead others. This course will challenge students to build their character and strive to be the best version of themselves. Further, students will be challenged to consider the ways in which their leadership can impact others.

## The Leader's Mindset

**Grade Level** 9- 12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

The Leader's Mindset provides a structured course for students to learn, practice, and engage in leadership roles in classrooms, co-curricular, and the community. The Leader's Mindset provides a platform for students to grow and reflect on their personal mindset and leadership skills in a safe and engaging environment while building a culture of collaboration. This course will also emphasize the importance of a positive, growth-oriented mindset and its effect on leadership. The Leader's Mindset will benefit students by allowing them to practice their leadership skills and gain valuable feedback to continue building their skills. Students who are interested in enrolling in the course may do so by selecting it on the course selection sheet, but may be asked to fill out an application as a follow-up step to enrolling.

## Social Studies Through Film

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

In the Social Studies Through Film course, students explore history, culture, politics, and social movements through the lens of film. By analyzing historical dramas, documentaries, and culturally significant movies, students examine how filmmakers interpret and depict key social studies themes. Discussions will focus on historical accuracy, bias, perspective, connections to events during specific time periods, and the impact of film on public perception.

Throughout the semester, students develop critical thinking skills while making connections between past and present issues. Topics may include civil rights, war and conflict, government and politics, economics, the impact of change in society, and culture. This course primarily has a global focus with films from a variety of time periods that depict important events and concepts within social studies. A few films depict American History, primarily involving American interaction or involvement with other countries. Assignments and assessments include film analysis essays, written reflections, comparative reviews of films vs. historical accounts, class discussions (such as Socratic seminars, debates, take a stand, and four corners activities), research projects, and creative assignments that encourage students to engage deeply with both history and film.

This course is ideal for students who love social studies, enjoy film, and want to explore how storytelling shapes our understanding of the world.

## Yearbook 1 & 2

**Grade Level** 11-12 **Credit** 1.0 **Duration** Year

**Prerequisite(s):** Application for enrollment is required. Please see Mrs. Jaskulka for the application.

Yearbook students will gain skills in page design, advanced publishing techniques, copywriting, editing, and photography while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on journalism skills in this class. Participants gain useful, real world skills in leadership, time management, marketing, teamwork, problem solving, communication, and design principles. Students will be given challenging real-world projects and assignments typical of the graphic design and publishing industries. High quality work is expected and work outside of the school day is common to attend events to photograph. Yearbook does not qualify as an English or Fine Arts credit for graduation or college admission, but qualifies as a general elective.

The Global Experience at Arrowhead High School supports students who are interested in preparing themselves for their roles as global citizens in an ever-changing global society. This experience aims to help students become globally competent by practicing these skills across a variety of subject areas:

1. investigate themes of global significance
2. recognize one's own perspective and gain perspectives from others
3. communicate with a number of different audiences far and near
4. act on issues of global significance in an effort to improve our world

This experience is enhanced by the State of Wisconsin Department of Public Instruction in that students can also, in addition to participating in the AHS Global Experience, earn the Certificate of Global Competence (CGC) awarded to graduating seniors who have fulfilled all DPI requirements. Successful participation in the Arrowhead Global Experience will fulfill the DPI requirements. Graduating seniors will receive a certificate from the DPI and a stamp on their diploma acknowledging them as "Global Scholars".

CGC Requires:

- 4 years in one high school-level World Language
- 8 cultural literacy reflections (at least four books among them)
- Active participation in and reflection on at least 4 globally focused activities/co-curricular groups at Arrowhead
- Global Capstone and Seminar along with additional credits in available courses
- 20 hours in globally-themed community service project (during Senior Capstone)
- A grade of B- (80%) or higher is required in all Global Pathway Courses

**Global Coordinators:** Heather Williams (williams@arrowheadschoools.org)

Grade	Required	Available Courses
9	Social Studies 9 OR AP Human Geography AND 2 credits in one World Language	Possible Enrollment in more than one World Language (2 credits)
10	2 credits in level 2 of the same World Language started in grade 9	Economics (1 credit) Global Relations (1 credit) World Language 1 (2 credits) World Language 2 (2 credits) British Literature (1 credit)
11 and 12	Junior Global Experience Seminar (2 credits) <i>Description on the next page</i>  Senior Global Capstone (1 credit) <i>Description on the next page</i>	Juniors enrolled in the AHS Global Seminar and Seniors enrolled in Global Capstone must also enroll in courses listed as "Interdisciplinary". They must earn a total of 6 credits from at least two different fields among the courses listed in Language Arts / Social Studies / Science / and/or World Language over the course of Sophomore, Junior, and/or Senior year.  <i>The list of available courses for Juniors and Seniors is found in the table on the next page.</i>

## Interdisciplinary Course Offerings

*(required for the Wisconsin Certificate of Global Competence)*

Choose at least 6 credits from at least two different fields among the courses below. These may be taken any time during Sophomore, Junior or Senior year.

Students must earn a B- (80%) or higher in all required courses in the pathway to be eligible for the Wisconsin Certificate of Global Competence.

### Language Arts

British Literature (1 credit)  
 English 11 (2 credits)  
 Organizational Communications (1 credit)  
 AP English Literature (2 credits)  
 AP English Language and Composition (2 credits)

### Science

Environmental Biology (1 or 2 credits)  
 Landscape Ecology (1 credit)  
 Biotechnology (1 credit)

### Social Studies

Global Relations (1 or 2 credits)  
 American Foreign Affairs (1 credit)  
 AP European History (2 credits)  
 Sociology (1 credit)  
 Economics (1 credit)  
 AP Macroeconomics (2 credits)  
 Social Studies Through Film (1 credit -General Elective )

### World Languages

Any level of a second World Language optional  
 (in addition to the one you take for four years)

- Chinese (2 credits)
- French (2 credits)
- German (2 credits)
- Spanish (2 credits)

### World Language Requirements

Juniors and Seniors must continue studies of their first World Language in order to have 4 years of ONE World Language by graduation.

### Global Seminar

**Grade Level** 11 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Minimum of two consecutive years of one high school level world language AND Concurrent enrollment in third year of world language AND Minimum grade of B- in all prerequisite courses for Global Certificate

The course will be team-taught by staff members who have expertise in a variety of different disciplines. Students will:

- investigate the world through the sciences, social studies, English, language, arts, culture, and business views.
- contribute knowledge from previous and concurrent classes to enhance interdisciplinary learning.
- recognize/gain perspectives from a variety of sources that represent a wide range of global cultures.
- communicate with a variety of audiences to inform and to inspire.
- take action to make the world a better place.

### Global Capstone

**Grade Level** 11-12 **Credit** 1.0 **Duration** First Semester only

**Prerequisite(s):** Global Seminar, AND Minimum of three consecutive years of one high school level world language AND Concurrent enrollment in fourth year or higher of world language AND Minimum grade of B- (80%) in all prerequisite courses for Global Certificate

The Global Capstone is the culminating course in the Global Experience. Students act to foster positive change as a globally competent citizen in a globally complex world. Students will:

- identify their individual passion for a locally and globally significant cause.
- investigate underlying issues.
- assimilate knowledge across disciplines.
- discuss knowledge and perspectives with classmates.
- communicate with a variety of audiences.
- propose solutions to a global challenge related to their personal interests.
- write and implement an action plan to make positive change.

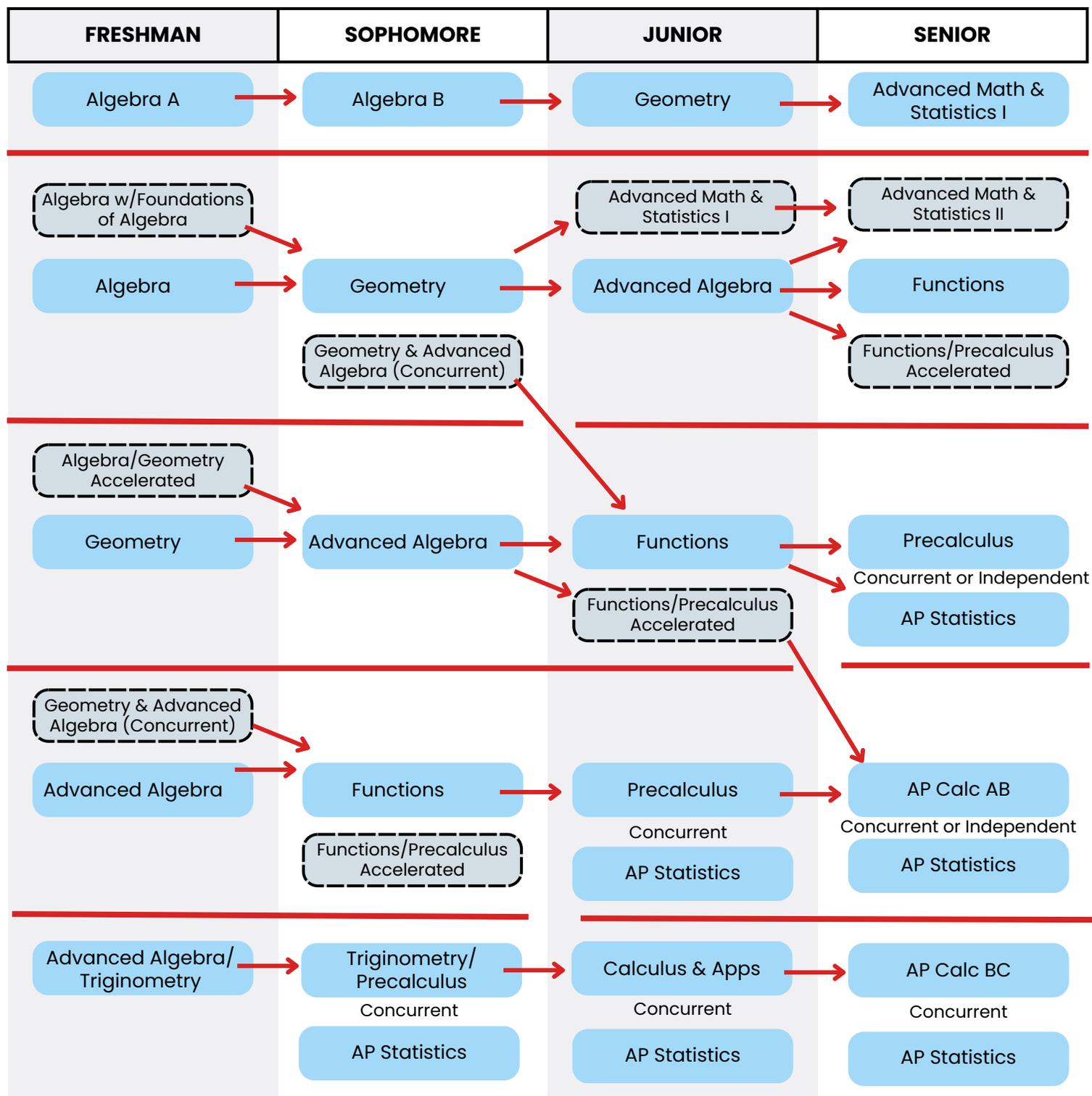
# MATHEMATICS

## Graduation Requirements:

Students must complete three years of mathematics to satisfy the Arrowhead graduation requirement. It is strongly recommended that every student take four years of high school mathematics. All math classes are year-long classes. Courses titled "Accelerated" are an increased pace that include two courses of curriculum in one year-long course. The most common pathways of mathematics courses are listed below.

A scientific calculator is required for each mathematics course.

A graphing calculator is required for any course of Advanced Algebra or equivalent and beyond. Further specifics for recommended calculator models are given in each course description.



## \*Advanced Algebra 1 & 2

**Grade Level** 9–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Incoming freshmen must successfully complete the District Algebra Assessment

Advanced Algebra emphasizes algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students study logarithmic, trigonometric, polynomial and other special functions both for their abstract properties and for modeling real-world situations. A graphing calculator is required. A TI Nspire CXII is recommended.

*\*\*\* Please note- Students who earned a C- or lower in Geometry should strongly consider Advanced Math and Statistics I (AMS I) instead of Advanced Algebra. AMS I and AMS II include all of Advanced Algebra concepts over two years along with additional math concepts such as data, probability and statistics. Students and parents are encouraged to discuss these options with their current math instructor.*

## \*Advanced Algebra / Trigonometry 1 & 2

**Grade Level** 9 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Teacher recommendation and or an A in the previous course is highly recommended (High School Geometry).

This course is designed for freshmen students who plan to take the AP Calculus BC course in their senior year. This course is for students with strong abilities and interest in the study of mathematics and is a prerequisite to the Trigonometry/Precalculus course offered for students in their sophomore year. A TI-Nspire CAS graphing calculator is required.

## \*Advanced Math and Statistics I 1 & 2

**Grade Level** 11–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Geometry

This class is designed as the first course in an alternative to one year of Advanced Algebra. Advanced Math and Statistics I and II together cover all of the standards in the Advanced Algebra course and also include standards in data, probability, and statistics. A graphing calculator is required.

## \*Advanced Math and Statistics II 1 & 2

**Grade Level** 11–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of AMS I

This class is designed as the second course in an alternative to one year of Advanced Algebra. Advanced Math and Statistics I and II together cover all of the standards in the Advanced Algebra course and also include standards in data, probability, and statistics. A graphing calculator is required.

## \*Advanced Placement Calculus AB 1 & 2

**Grade Level** 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B- or better in Functions/Pre-Calculus Accelerated, Precalculus and Discrete Math or B or better in Calculus and Applications and teacher recommendation.

Advanced Placement Calculus AB is designed to prepare students to take the AP Calculus AB test for college credit. This is the equivalent of a one semester college calculus class and covers differential and integral calculus. A TI-Nspire CAS graphing calculator is required.

## \*Advanced Placement Calculus BC 1 & 2

**Grade Level** 12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B- or better in Calculus and applications are teacher recommendation.

Advanced Placement Calculus BC is designed to prepare students to take the A.P. Calculus BC test for college credit. This is the equivalent of two semesters of college calculus and covers differential and integral calculus. Students taking the BC test earn a score on both the Calculus AB and BC topics. A TI-Nspire CAS graphing calculator is required. Students demonstrate readiness for course by earning a Pre ACT STEM score of 25 or higher..

## \*Advanced Placement Statistics 1 & 2

**Grade Level** 10–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B- or better in Functions, Statistics, and Trigonometry 1 & 2, or Functions/Precalculus Accelerated, or B or better on Advanced Algebra/Trigonometry and teacher recommendation

Advanced Placement Statistics is designed to prepare students to take the AP Statistics test for college credit in a non-calculus-based statistics course. The topics for AP Statistics are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. An introductory statistics course, similar to the AP Statistics course, is typically required for majors in the social sciences, health sciences, education, and business. The AP Statistics course is also preparation for students who plan to take upper-level statistics courses in college through math, science, or engineering departments. AP Statistics may be taken concurrently with Trigonometry/Precalculus, Precalculus and Discrete Mathematics, or AP Calculus. A graphing calculator is required, TI Nspire CXII is recommended. Students demonstrate readiness for this class by earning a 24 or better on the STEM subjects of the Pre Act.

## Algebra A (Not on Course Selection Sheet)

**Grade Level** 9 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Completion of Traditional Math (Pre-Algebra) and teacher recommendation.

Algebra A covers the first half of Algebra over one year. Students are placed in the course based on teacher recommendation. This course does not appear on the course selection materials. Scientific calculator required for this course.

## \*Algebra 1 & 2

**Grade Level** 9–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of 8<sup>th</sup> grade (or previous math).

Algebra examines functional relationships and the use of symbols to describe patterns, number sense, and algorithmic thinking. The concepts in a first-year algebra course are described through verbal, symbolic, graphical, and numerical representations, and are used throughout the remainder of the high school and college math curricula. Real-world applications are used throughout the course.

## \*Algebra B 1 & 2 (Not on course selection sheet)

**Grade Level** 10–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Algebra A

Algebra B covers the second half of Algebra over one year. This course is designed as a second course for student who have taken Algebra A. The two courses together are an alternative to one year of Algebra. The course requires a scientific calculator.

## \*Algebra /Geometry Accelerated

**Grade Level** 9–10 **Credit** 4.0 **Duration** Year

**Prerequisite(s):** Teacher Recommendation

This course is highly recommended for students who are planning to take Advanced Algebra in the next school year. The course provides further opportunity for mastery of algebraic thinking while allowing students to complete Geometry in the same year. Algebra B is completed in the first semester, and Geometry is completed in the second semester. Students who complete the course benefit from further algebraic learning that assists them in their remaining studies in math and science. A scientific calculator is required for this course.

## \*Calculus and Applications 1 & 2

**Grade Level** 11 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B- or better in Trigonometry/Precalculus or Functions/Precalculus Accelerated

Calculus and Applications introduces juniors to the formal study of Calculus through limits, derivatives, and integrals. The focus on applications and theory provide students with the background and skills necessary for successful completion of AP Calculus BC during the senior year. A TI-Nspire CAS graphing calculator is required.

## Foundations of Algebra

**Grade Level** 9 **Duration** Year

**Prerequisite(s):** Concurrent enrollment in Algebra 1 & 2 and teacher recommendation

Students in Foundations have access to two teachers who work together to provide students daily instruction, monitor understanding, and offer targeted support through small groups or one-on-one help. Students receive immediate feedback, extra guided practice and lessons tailored to their needs—building confidence and a strong foundation for future math success. Students enroll if recommended by their 8<sup>th</sup> grade math teacher.

## \*Functions, Statistics, and Trigonometry 1 & 2

**Grade Level** 10–12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Advanced Math & Statistics II or Advanced Algebra

Functions, Statistics, and Trigonometry integrates statistical and algebraic concepts and previews calculus in work with functions and intuitive notions of limits. Graphing calculators and computers are used to plot functions, analyze data, and simulate experiments. Trigonometry and circular functions are a major emphasis. A graphing calculator is required.

## \*Functions/Precalculus Accelerated 1 & 2 (NC)

**Grade Level** 10–12 **Credit** 4.0 **Duration** Year

**Prerequisite(s):** Completion of Advanced Algebra with a B (highly recommended) and teacher recommendation

The EVERYDAY block course is intended for students who have performed at a high level in the Advanced Algebra course and have received their teacher's recommendation to accelerate through the Arrowhead math sequence. Students should have strong capabilities and an interest in studying mathematics at a high level in high school. The course will integrate the curriculum of Functions, Statistics and Trigonometry and Precalculus and Discrete Mathematics in a unified manner. Students will incorporate statistical reasoning, algebraic modeling, trigonometric functions, and logical reasoning. A graphing calculator is required.

**\*Geometry 1 & 2**

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**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Incoming freshmen must have a teacher recommendation and/or take concurrently with Algebra. Current students must have successful completion of Algebra or Algebra B.

The Geometry course emphasizes coordinate and transformational geometry. The development of logic patterns is used to build the concept of mathematical proof. There is also a strong focus on measurement formulas and three-dimensional figures.

**\*Precalculus and Discrete Mathematics 1 & 2**

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**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Functions, Statistics, and Trigonometry

Pre-calculus and Discrete Mathematics emphasize the content necessary to be successful in Calculus and Computer Science. A graphing calculator is required.

**\*Trigonometry / Pre-Calculus 1 & 2**

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**Grade Level** 10 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** B -or better in Advanced Algebra/Trigonometry

This course is designed for sophomores who have completed Advanced Algebra/Trigonometry as freshmen. This course is for students with strong abilities and interest in the study of mathematics and is the prerequisite for Calculus and Applications in the 11th grade. A TI Nspire CAS graphing calculator is required.

# PHYSICAL EDUCATION AND HEALTH

## Graduation Requirements:

Physical Education classes are provided to help students acquire the knowledge, skills, and confidence for improved educational achievement and to lead healthy, productive lives. The primary goals are to improve physical fitness and to teach skills and knowledge that will enable students to be physically active and healthy for a lifetime.

## Physical Education Requirements

1. All students must earn three credits of physical education to fulfill the graduation requirements.
2. Each credit is one semester long.
3. Credits must be taken in three separate years.
4. Summer school classes count for credit in the upcoming academic year.
5. No class may be taken twice to fulfill this requirement.

## Physical Education Electives

Students may take as many physical education classes for elective credits as they wish beyond the stated requirement.

## Medicals

1. Medical excuses, written by a physician or trainer, do not have to be made up and points are not lost.
2. Students must participate in at least nine weeks of the semester to receive credit.
3. Medical excuses must include the dates the student is to be excused and specific restrictions

1 Credit of Health is required for graduation.

The Health program is designed to develop positive attitudes, skills for daily living and to help prepare individuals in their future roles as family members and citizens.

- Students will acquire the knowledge needed to attain health literacy.
- Students will analyze and interpret valid health information and services using various resources.
- Students will maintain health-enhancing behaviors and reduce health risks.

Julie Marrazzo and Emily Martin-Department Chairs- 262-369-3611 x4838

Grade	Available Courses
9	Individual Physical Education Performance Training (9/10) Team Physical Education Physical Education AM Health
10	Performance Training (9/10) Physical Education 10 Physical Education AM Health
11 and 12	Adventure Physical Education Aerobic Fitness for Life Coaching and Officiating (See General Electives) Performance Training (11/12) Physical Education 11/12 Physical Education AM Peer Mentor PE

## Adventure Physical Education

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Adventure Physical Education includes high ropes course and low challenge courses, indoor climbing wall, and other outdoor pursuits that may include navigation skills with GPS and compasses, biking, fishing, kayaking, archery, hiking, ice bocce, and appreciation of the outdoors.

\*See Summer School Guide

\*Students interested in this PE class should have a working bike they can ride outdoors.

## Aerobic Fitness For Life

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Students selecting Aerobic Fitness for Life can expect a dynamic class emphasizing cardiovascular fitness. Students will participate in a variety of indoor and outdoor fitness activities including- inline skating, step aerobics, water aerobics, yoga, ice skating, pickleball, tennis, outdoor activities/fitness, aerobics, pilates. The class also provides a one day snapshot of Taekwondo.

## Coaching & Officiating (NC)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

This course is designed to develop an appreciation and increased understanding of sport in American society. The course will offer the student the chance to study the philosophy, psychology, motivation, and rewards of coaching, as well as focus on officiating and personal wellness. Any person who appreciates or is involved in athletics will enjoy the course.

This course will count as a GENERAL ELECTIVE. It does not count toward the graduation requirements for Physical Education.

## Health

**Grade Level** 9-10 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Topics in Health include:

Personal wellness, nutrition, fitness, medicine, tobacco, alcohol, illegal drugs, mental and social health, human growth and development, relationships, CPR, First Aid, and injury prevention.

*\*WIS.ACT 56-Exemption for individual pupils. "No student may be required to take instruction in human growth and development or in the specific subjects under SUB, (2) If the pupil's parent files with the teacher or the school principal a written request that the pupil be exempted."*

Sub. 2:

- a. Self-esteem, responsible decision-making and personal responsibility
- b. Interpersonal relationships
- c. Discouragement of adolescent sexual activity
- d. Family life and skills required of a parent
- e. Human sexuality, reproduction, contraception, HIV/AIDS, prenatal development, childbirth, adoption, available prenatal and postnatal support, and male responsibility
- f. Sex stereotypes and provocative behaviors

*\*If a parent wishes to have their child exempted from any or all of these areas, independent study materials will be provided for that student during the exemption. Requests for exemption of all or part of Human Growth and Development must be submitted to the health teacher.*

## Individual Physical Education

**Grade Level** 9 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Individual Physical Education emphasizes skill development in activities that can be played alone or with another person, such as badminton, ice bocce, swimming, skating, yoga, archery, and tennis and personal fitness. Emphasis is on the promotion of lifelong activity as needed for lifelong fitness.

## Peer Mentor Physical Education

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

This class is for students interested in learning the pillars of physical education while supporting other students as a peer mentor. Students enrolled will be learning while supporting other students who need adaptive physical education in an inclusive environment. This environment with peer mentors is evidence-based and has a great overall positive impact on student growth and achievement in this area. APPLICATION TO BE A MENTOR

## Performance Training 9/10 NC

**Grade Level** 9-10 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Performance Training 9/10 is offered as a component of a schoolwide fitness and conditioning program. Students will engage in movement through all planes of motion by establishing high levels of functional strength and neuromuscular efficiency. Classes will integrate flexibility, core, balance, plyometric, speed/agility/quickness, resistance, and cardio-respiratory training. Due to its flexibility, this course is an excellent choice for the beginner to the highly skilled and will focus on improvement at all skill levels.

## Performance Training 11/12 (NC)

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Performance Training 11/12 is offered as a component of a schoolwide fitness and conditioning program. Students will engage in movement through all planes of motion by establishing high levels of functional strength and neuromuscular efficiency. Classes will integrate flexibility, core, balance, plyometric, speed/agility/quickness, resistance, and cardio-respiratory training. Performance Training 11/12 is intended for student athletes, but appropriate for all students wishing to improve their strength and agility. Students who take Performance Training 9/10 can take Performance Training 11/12 for PE credits required for graduation.

## Physical Education Zero Hour (NC)

**Grade Level** 9-12 **Credit** 1.0 **Duration** First Semester Daily 40

**Prerequisite(s):** None

Physical Education AM (PE AM) is a one-semester course available for all students, but it is designed especially for the student who may have scheduling conflicts during the regular school day. The class will meet 40-minutes, every day, and prior to the first hour, from 6:20-7:00 a.m. Activities will be determined by the class size and the facilities and equipment available. This course will be offered first semester only.

## Physical Education 10

**Grade Level** 10 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

Physical Education 10 class concentrates on activities students can pursue for a lifetime. Activities may include tennis, water games, skating, volleyball, fitness, badminton, basketball, Ice Bocce, eclipse ball, pickleball and other outdoor and indoor games.

## Physical Education 11/12

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Students selecting Physical Education 11-12 can expect an increased emphasis in advanced game play, strategies, and skill level. Teamwork, fair play, and fitness are highly emphasized. Activities may include basketball, pickle ball, swimming, badminton, volleyball, ice skating, ice bocce, and fitness.

## Team Physical Education

**Grade Level** 9 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Team Physical Education utilizes team games such as volleyball, soccer, water games, ice games, football, softball, pickleball, ice Bocce, and others. Teamwork, fair play, and fitness are the focus in this offering.

## Graduation Requirements:

Courses in the Science Department engage students in investigations of scientific inquiry. The focus is on the use of evidence to develop models that can be used to explain the natural and manmade world. All science courses include a laboratory component for gathering data in order to build or verify the most important concepts within each discipline.

Each student must have six semester credits of science in order to graduate. It is strongly recommended that college-bound students take four or more years of science. College admissions requirements vary, so be sure to check these with your prospective colleges. A.P. Science courses are strongly recommended for students who would like to pursue a science-related major.

Many advanced science courses have math prerequisites or the requirement of specific grades in previous science courses. When considering a course, be sure to check that you have met the minimum requirements.

Laura Holdmann, Department Chair , 369-3611

Grade	Available Courses																		
9	Physical Science 1 & 2 Physical Science / Biology Accelerated Block 1 & 2																		
10	Biology / Biology Accelerated Chemistry / Chemistry Accelerated 1 & 2 Physics / A.P. Physics 11 & 2 Engineering and Mechanics 1 & 2																		
11 and 12	<table border="0"> <tr> <td>A.P. Biology 1 &amp; 2</td> <td>Engineering &amp; Mechanics 1 &amp; 2</td> </tr> <tr> <td>A.P. Chemistry 1 &amp; 2</td> <td>Environmental Biology –Land</td> </tr> <tr> <td>A.P. Physics I 1 &amp; 2</td> <td>Environmental Biology – Atmosphere &amp; Aquatics</td> </tr> <tr> <td>A.P. Physics II 1 &amp; 2</td> <td>Landscape Ecology</td> </tr> <tr> <td>A.P. Physics C 1 &amp; 2</td> <td>Physics</td> </tr> <tr> <td>Anatomy &amp; Physiology</td> <td></td> </tr> <tr> <td>Biotechnology</td> <td>Space Science</td> </tr> <tr> <td>Chemistry / Chemistry Accelerated 1 &amp; 2</td> <td>Forensic Science</td> </tr> <tr> <td>Chemistry for the Health Sciences</td> <td>Zoology</td> </tr> </table>	A.P. Biology 1 & 2	Engineering & Mechanics 1 & 2	A.P. Chemistry 1 & 2	Environmental Biology –Land	A.P. Physics I 1 & 2	Environmental Biology – Atmosphere & Aquatics	A.P. Physics II 1 & 2	Landscape Ecology	A.P. Physics C 1 & 2	Physics	Anatomy & Physiology		Biotechnology	Space Science	Chemistry / Chemistry Accelerated 1 & 2	Forensic Science	Chemistry for the Health Sciences	Zoology
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Regardless of which 9th grade science course is chosen, there is no limitation to taking additional science courses during high school. Extended opportunities begin with the course choice made during the 10th grade year. For students wishing to pursue advanced or multiple elective science courses at Arrowhead, it is highly recommended that students “double up” during their 10th grade year by taking Biology along with Chemistry or Physics.

The Physical Science / Biology Accelerated Block allows students who meet the recommended standardized test scores to double up during their freshman year. This does not prevent them from doubling up again during their sophomore year.

**\*Advanced Placement Biology 1 & 2****Grade Level** 11-12 **Credit** 2.0 (Life Science) **Duration** Year**Prerequisite(s):** B or better in Biology or Biology Accelerated and a B or better in Chemistry, Functions (concurrent or beyond)

Advanced Placement Biology is designed to be the equivalent of an introductory course taken by biology majors during their first year of college. This course is designed to extend knowledge of biological theory and processes beyond the level of introductory biology. All aspects of the course, including lectures, lab experiments, homework assignments, class discussion, and tests, focus on integrating the immense amount of factual material with the following analytical themes: molecules and cells, heredity and evolution, and organisms and populations. Students interested in medicine, veterinary science, nursing, physical and occupational therapy, physician's assistant, marine biology, oceanography, limnology, and molecular biology should consider taking A.P. Biology. College-level textbooks and lab guide materials will be used. Examinations and lab reports will be designed to simulate college standards. Students have an opportunity to gain 6-10 college credits with their A.P. exam performance. Students must earn a C or better in 1st semester to continue the course in 2nd semester. Students earning a 23 on STEM subjects of the Pre ACT demonstrate readiness for the course.

**\*Advanced Placement Chemistry 1 & 2****Grade Level** 11-12 **Credit** 2.0 (Physical Science) **Duration** Year**Prerequisite(s):** B or better in Chemistry, Functions (concurrent or beyond)

Advanced Placement Chemistry is a rigorous course. It involves weekly lab work and maintains a fast pace, requiring significant preparatory time. Major topics include a review with additional depth of all of the topics of General Chemistry, as well as a study of thermochemistry and thermodynamics, kinetics, equilibria in gas and aqueous phases and electrochemistry. Students should have a strong working knowledge of the chemistry concepts they learned in Chemistry or Honors Chemistry. Students have an opportunity to gain 6-10 college credits with their A.P. exam performance. Students interested in medicine, physical therapy, veterinary science, nursing, physical or occupational therapy, or pharmacy should strongly consider taking AP Chemistry in preparation for college. Students must earn a C or better in 1st semester to continue the course in 2nd semester. Students earning a 24 or higher on the STEM subjects of the Pre ACT demonstrate readiness for the course.

**\*Advanced Placement Physics I 1 & 2****Grade Level** 10-12 **Credit** 2.0 (Physical Science) **Duration** Year**Prerequisite(s):** B- or better in Science 9 or Science 9/ Biology Accelerated Block, concurrent enrollment in or completion of Biology or Biology Accelerated, concurrent enrollment in or completion of Functions.

Advanced Placement Physics I is the equivalent of a first semester introductory algebra-based college physics course. It will prepare students to take the A.P. Physics I exam. The course is an overview of Newtonian mechanics, which includes motion and forces, work and energy, linear momentum, circular motion and dynamics, rotational dynamics and angular momentum, simple oscillations and fluids. Additional topics may include mechanical waves and sound. In addition to a history of academic success in math and science (A's and B's), students should have a strong interest in the topic. Students must earn a C or better in 1st semester to continue the course in 2nd semester. Students earning a 27 or higher on the STEM subjects of the Pre ACT demonstrate readiness for the course.

**\*Advanced Placement Physics II 1 & 2****Grade Level** 11-12 **Credit** 2.0 (Physical Science) **Duration** Year**Prerequisite(s):** A or B in Advanced Algebra and concurrent enrollment in Functions or beyond. A or B in Physics or AP Physics I

Advanced Placement Physics II is equivalent to the second semester of introductory algebra-based college physics course. It will prepare students to take the A.P. Physics II exam. Students who are interested in physics, science, engineering, or advanced medical fields should consider this course. Major topics included in the course are thermodynamics; electrostatics; electric circuits; magnetism and electromagnetic induction; geometric and physical optics, waves and sound; and topics in modern physics. Students must earn a C or better in 1st semester to continue the course in 2nd semester. Students earning a 27 or higher on the STEM subjects of the Pre ACT demonstrate readiness for the course.

**\*Advanced Placement Physics C 1 & 2****Grade Level** 11-12 **Credit** 2.0 (Physical Science) **Duration** Year**Prerequisite(s):** A or B in Physics or AP Physics I, concurrent enrollment in AP Calculus AB, AP Calculus BC or Calculus and Applications (Pre-calculus with consent of science department chair)

Advanced Placement Physics C is an advanced, calculus-based physics course that reflects the content and rigor of the first two semesters of an undergraduate engineering physics sequence. Students in this course will be prepared to take both the A.P. Physics C Mechanics and A.P. Physics C Electricity and Magnetism exams. Students who take this course should have a record of high achievement in advanced math and science courses, a willingness to complete nightly homework and frequent lab reports, and an interest in the field of physics or engineering. The major topics included in the course are: kinematics, Newton's laws of motion, work, energy, and power, systems of particles and linear momentum, circular motion and rotation, oscillations and gravitation, electrostatics, conductors, capacitors, and dielectrics, electric circuits, magnetic fields; and electromagnetism. Students must earn a C or better in 1st semester to continue the course in 2nd semester. Students earning a 26 or higher on the STEMS subjects of the Pre ACT demonstrate readiness for the course.

**\*Anatomy & Physiology****Grade Level** 11-12 **Credit** 1.0 (Life Science) **Duration** Semester**Prerequisite(s):** Prerequisite: Successful completion of Biology or Honors Biology (Biology Accelerated)

Anatomy and Physiology is a one semester course that focuses on the structure and function of the human body. Students taking this course will develop the ability to use anatomical language while studying the skeletal, muscular, and circulatory systems. Anatomy is a lab-intensive course. Students will have the opportunity to work with skeletal models, as well as muscular and heart models. Anatomy is a college-preparatory course that will help develop study methods that will be beneficial in college, as well as provide students with a better understanding of their own body and how it works.

**\*Biology 1 & 2****Grade Level** 10 **Credit** 2.0 (Life Science) **Duration** Year**Prerequisite(s):** None

Biology is devoted to the study of life, its molecular and cellular structure, energy requirements, reproduction, genetics and ecological relationships. The purpose of the biology curriculum is to facilitate an inquiry-based, hands-on discovery approach to science in order that the students develop an appreciation and awareness of natural phenomena. Students will use skills developed in Science 9 (Physical Science) and apply them to biological processes and systems.

**\*Biology Accelerated 1 & 2****Grade Level** 10 **Credit** 2.0 (Life Science) **Duration** Year**Prerequisite(s):** B- or better in both semesters of Science 9 (Physical Science). A recommended Pre ACT score of 22 in science, 22 in math and a 22 in reading would be an appropriate indicator of success

Biology Accelerated is a laboratory-centered survey of general biology concepts for highly motivated students with a great interest in the sciences who have demonstrated excellent study skills and high aptitude in math. The course will cover basic biochemistry, cellular biology, genetics, biotechnology, evolution, ecology, and classification in greater depth than regular biology. The class incorporates writing, critical-thinking, research and laboratory skills. Students are expected to design and carry out independent investigations, report on recent research in biology, explore biological careers, and demonstrate a more in-depth conceptual understanding of major biological processes. This class will be more challenging than the general biology course. It is great preparation for other advanced science courses. Ideally, students in Biology Accelerated are concurrently enrolled in a North Campus science course.

**Biotechnology****Grade Level** 11-12 **Credit** 1.0 (Life or Physical Science) **Duration** Semester**Prerequisite(s):** A or B in Biology or Honors Biology (Biology Accelerated) or consent of instructor

Biotechnology focuses on the molecular side of biology. Students will explore the basics of molecular biology and biotechnology through classroom and laboratory activities. Units include: "old" biotech, DNA, restriction enzymes, PCR, gel electrophoresis, genetically modified organisms, DNA barcoding, and more. Our goal is to become proficient in laboratory skills while becoming familiar with topics in biotech.

**\*Chemistry 1 & 2 (NC)****Grade Level** 10-12 **Credit** 2.0 (Physical Science) **Duration** Year**Prerequisite(s):** C- or better in previous Science course. Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II or beyond.

Chemistry is a college preparatory, academically rigorous course. It is the study of the nature of matter and the changes which can take place. Basic units include atomic structure, bonding, formula and equation writing, chemical calculations, and the nature of chemical reactions. A high level of commitment to the course of study is required in order to assure fundamental principles are firmly established. Sophomores should be academically strong with an average grade of B or better. Juniors and Seniors should have a record of academic success in math classes (mostly A's and B's). Students must earn a passing grade in 1st semester to continue the course in 2nd semester.

**\*Chemistry Accelerated 1 & 2 (NC)****Grade Level** 10-12 **Credit** 2.0 (Physical Science) **Duration** Year

**Prerequisite(s):** B- or better in previous Science course (Sem II). Concurrent enrollment in Advanced Algebra (B+ or better in Geometry or previous math class recommended) or beyond. A recommended Pre ACT-score of 22 in science, a 22 in math and a 22 in reading would be an appropriate indicator of success.

This is a college preparatory course designed to cover the topics in general Chemistry at a faster pace and a greater depth. Students with a strong commitment to the study of chemistry and considering a chemistry related major or career should consider this course option. Chemistry accelerated places emphasis on inquiry-based models and activities, reading for learning, and application of learning through labs. Topics include properties of matter, nomenclature, chemical quantities, chemical reactions, stoichiometry, atomic structure, periodicity, bonding, solutions, and acids & bases. Students must earn a passing grade in 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.

**Chemistry for the Health Sciences****Grade Level** 11-12 **Credit** 1.0 (Life Science) **Duration** Semester

**Prerequisite(s):** Prerequisite: Successful completion of Biology and Chemistry

Chemistry for the Health Sciences is to expose students to the applications of chemistry in the health-related fields from a conceptual and experimental perspective. Organic chemistry and biochemistry are the primary fields of chemistry studied. Students will be able to apply previous knowledge from science courses and expand upon it as they focus on the health-related fields. Students will explore how scientific concepts are applied to techniques used in medical labs and facilities. Field trips and guest speakers may be components of the course.

**\*Engineering & Mechanics (PLTW)****Grade Level** 10-12 **Credit** 4.0 (2-Physical Science)**Duration** Year

Students receive credit for: Physics and Principles of Engineering (PLTW)

**Prerequisite(s):** C- or better in previous science course. Completion or concurrent enrollment in Biology. Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II or beyond.

Engineering & Mechanics is for students interested in learning about physics and engineering in a project-based, hand-on learning environment. Students interested in engineering, manufacturing, and STEM-related fields and enrolling in Physics should strongly consider taking the Engineering and Mechanics course. Credit is earned for both Physics and Principles of Engineering but creates an entirely different experience. Students can learn the essential physics ideas by applying real-world engineering problems such as constructing projectile launchers, bridge/truss designs, robotics and programming, and more.

**Engineering & Mechanics (PLTW) Cont.**

Students who enroll in Engineering & Mechanics are not required to continue within the Engineering Experience. This course will serve as excellent preparation for the Capstone Experience, Engineering Design & Development.

Potential for college credit ([link](#)). We offer a dual credit option through the University of Wisconsin – Green Bay (CCIHS). Students can elect to earn three college credits through UWGB, which are transferable to all UW schools and many others. UWGB's equivalent course is ME 220: Mechanics of Materials. The process for earning credits takes place with the instructors during the first week of class. Note: Some students enrolling in Engineering and Mechanics would prefer to receive credit for AP Physics I instead of Physics. Students may select to have AP Physics I appear on their transcript, but must agree to take on additional work and are expected to take the AP Physics I exam. This process takes place with the instructor during the first week of class.

**\*Environmental Biology – Atmosphere and Aquatics****Grade Level** 11-12 **Credit** 1.0 (Life Science) **Duration** Semester

**Prerequisite(s):** Biology or Biology Honors (Biology Accelerated)

Environmental Biology Atmosphere and Aquatics places major emphasis on lab experiences in the branch of biology known as ecology, the study of the relationships of living things to their environment and to each other. Topics dealing with the atmosphere and aquatics include greenhouse effect, ozone, acid rain, groundwater, wetlands, and water quality. Practical experiences dealing with conservation and the wise management and use of our natural resources are provided. Wisconsin environmental issues are emphasized.

**\*Environmental Biology – Land****Grade Level** 11-12 **Credit** 1.0 (Life Science) **Duration** Semester

**Prerequisite(s):** Biology or Biology Accelerated

Environmental Biology- Land places major emphasis on lab experiences in the branch of biology known as ecology; the study of the relationships of living things to their environment and to each other. Course topics include: soils, geology, glaciers and landforms, orienteering, wildlife management, and forestry. Practical experiences dealing with conservation and the wise management and use of our natural resources are provided. Wisconsin environmental issues are emphasized.

**\*Forensic Science****Grade Level** 11-12 **Credit** 1.0 (Physical Science)**Duration** Semester

**Prerequisite(s):** None

Forensic Science will provide opportunities for students to study science through problem-solving activities. Students will learn aspects of forensic science largely focused upon studies related to blood spatter, fingerprints, impressions, and crime scene analysis.

## Landscape Ecology

**Grade Level** 11–12 **Credit** 1 (Life Science) **Duration** Semester

**Prerequisite(s):** Successful completion of Biology or Biology Honors (Biology Accelerated)

Landscape Ecology is a one semester course that will explain how the Earth is populated with differing biomes, and how each biome creates its own Ecology. The wide variety of Wisconsin landscapes will be a major focus of the course. Plant life cycles are a product of evolution specific to the biomes plants thrive within. Students will learn about pollination, seed creation, germination, and plant growth. Significant time will be spent studying the ecological benefits of native plants, and the threat that invasive plant species pose. Major labs and projects include Biome Research, WI Landscape Ecologies, Plant Germination and Growth, and Landscape Design Utilizing Native Species.

## \*Physics 1 & 2

**Grade Level** 10–12 **Credit** 2 (Physical Science) **Duration** Year

**Prerequisite(s):** C- or better in previous science course (Sem II). Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II or beyond. Concurrent or prior enrollment in Biology or Biology Accelerated.

Physics is a college preparatory course. It is a study of natural laws and relationships that describe matter and energy. Major topics include: forces, motion, work and energy, oscillations, waves, and sound. The theoretical framework for these topics is developed with an emphasis on lab work, hands-on experience, and mathematical analysis. Students must have demonstrated previous success in all math and science courses (A's and B's). Students must earn a passing grade in 1st semester to continue the course in 2nd semester.

## \*Physical Science (Science 9) 1 & 2

**Grade Level** 9 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

The course has been designed to develop the thinking processes and laboratory skills needed for subsequent science courses while emphasizing the connections between science, mathematics, and real life. Strong emphasis is placed on student mastery of essential science, or baseline, skills through thematic units exploring sound experimental design, accurate and precise scientific measurement, proper data collection and presentation, analyzing and interpreting quantitative and qualitative data, and applying concepts to real-world situations.

## Physical Science / Biology Accelerated Block

**Grade Level** 9 **Credit** 4.0 (Life & Physical) **Duration** Year

**Prerequisite(s):** Geometry or beyond 8th Grade PreACT testing is required. A recommended ACT score of a 22 in science, a 22 in math and a 22 in reading would be an appropriate indicator of success.

The Science 9 / Biology Accelerated Block is an everyday block course offered to strongly motivated, interested and highly capable science students. The course allows 9th grade students to complete Physical Science and Biology within one academic year. The emphasis is on Physics, Chemistry, and Biology, but will also include Earth and Space science concepts. Laboratory work allows students to discover and apply important scientific principles within these disciplines. Students work at a faster pace and to a greater depth as preparation for advanced science courses in grades 10–12.

## \*Space Science

**Grade Level** 11–12 **Credit** 1.0 (Physical Science)

**Duration** Semester

**Prerequisite(s):** None

Space Science is a semester-long, laboratory-based introduction to the field of space science and astronomy. Topics include night sky observation and constellations, the history and current state of astronomy, light, telescopes, the solar system, and space exploration. The course concludes with students building and launching a rocket. Students of all abilities and interests will find success in this course.

## \*Zoology

**Grade Level** 11–12 **Credit** 1.0 (Life Science) **Duration** Semester

**Prerequisite(s):** Successful completion of Biology or Biology Accelerated

Zoology, a college-level course, focuses on animal biology. Students study the major divisions of the animal kingdom. Students will study anatomy and physiology, classification, and identification of birds. Students will focus on the anatomy and physiology of fish, as well as their classification. Zoology is a lab intensive class. Students will have the opportunity to handle specimens, and complete a dissection of a pigeon and a shark.

## Graduation Requirements:

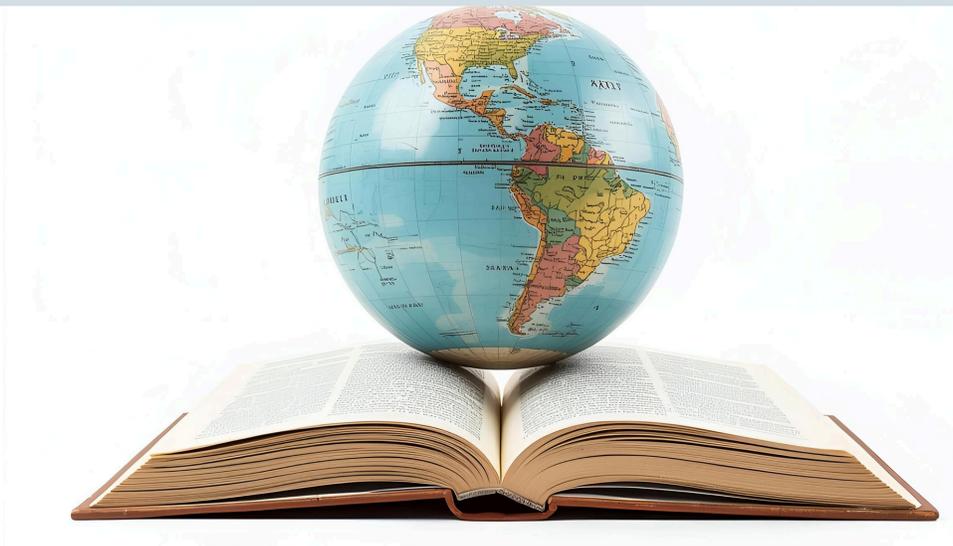
The Social Studies Department offers courses concerned with history, behavioral sciences, economics, geography and civics. Subjects in social studies explore the places people live and the impact the physical environment has on people, the development of civilizations and cultures through time, how people make their living, how they behave individually and in groups, how they govern themselves, and how people from various cultures react to their conditions.

Each student must have six credits of social studies to graduate. Two of these credits must be in United States History or A.P. United States History and both semesters of Social Studies 9. Students who take AP Human Geography must take AP U.S. Government and Politics or Political Science during 10, 11 or 12th grade.

A student with an interest in social studies and planning to attend college might consider a career in social work, law, teaching, sales, law enforcement, economics, urban analysis, psychology, international relations, labor economics, and many other areas. Students will find the social studies courses useful in understanding themselves and their world as well as helping them become better citizens.

Shanna Morgan, Department Chair - [morgan@arrowheadschoools.org](mailto:morgan@arrowheadschoools.org)

Grade	Available Courses		
9	A.P. Human Geography 1 & 2 Social Studies 9 1 & 2		
10	A.P. European History 1 & 2 Political Science A.P. Government & Politics 1 & 2 Economics	Global Relations History of Western Civilization 1 & 2 Political Science U.S. History 1 & 2	
11 and 12	A.P. European History 1 & 2 A.P. U.S. Government & Politics 1 & 2 A.P. Macroeconomics 1 & 2 A.P. Psychology 1 & 2 A.P. U.S. History 1 & 2 American Domestic Affairs American Foreign Affairs	Economics Global Relations History of Western Civilization 1 & 2 Political Science Psychology Social Studies Through Film	Sociology U.S. History 1 & 2 Modern American History



## **\*Advanced Placement European History 1 & 2 (NC)**

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Advanced Placement European History starts in the year 1450 and introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which we live. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. Students will need to read and comprehend a college-level text and develop strong writing skills to be successful.

Students who have demonstrated readiness for AP have a 22 or higher on the Pre ACT- Reading.

## **\*Advanced Placement Human Geography 1 & 2**

**Grade Level** 9 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Pre ACT is required. A 22 in reading is a strong predictor of success on the AP exam..

Advanced Placement Human Geography, according to the College Board, is a college-level course that is “designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth’s surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences.” Topics include: geography as a field of inquiry, population, cultural patterns and processes, organizational agriculture and land use, industrialization and economic development, cities and urban land use. Students may earn college credit by scoring well on the A.P. College Board exam for Human Geography. Students who enroll in A.P. Human Geography must still fulfill the government requirement for graduation and take either A.P. US Government and Politics or Political Science during high school. Political Science is also offered in Summer School.

## **\*Advanced Placement Macroeconomics 1 & 2**

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Advanced Placement Macroeconomics is designed to help students develop critical thinking skills through the understanding, application, and analysis of fundamental macroeconomic concepts. Students will be expected to apply economic logic to a wide variety of real-world and hypothetical situations. The goal is to understand the linkages describing the chain of events leading to economic conclusions. A.P. Macroeconomics may fulfill general education requirements in college. This course allows students to earn one semester of college credit if they pass the exam with a sufficiently high grade. Students demonstrate a readiness for this AP class by earning 24 or higher on the Pre ACT - STEM

## **Advanced Placement Psychology 1 & 2**

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Advanced Placement Psychology will introduce students to the systematic and scientific study of the behavior of humans and animals. Students will learn psychological facts, principles, and phenomena associated with each of the major subfields of psychology. This course is designed for college bound students. It will be taught using a lecture, discussion, and lab format. Much reading will be required as well as essay examinations and research papers. The A.P. Psychology course allows students to earn one semester of college credit while in high school if they pass the exam at the end of the course with a sufficiently high grade. The experience of taking this course in high school will better prepare them for college courses. Due to the scientific approach to behavior used in this course, a strong background in biology and math is recommended. Strong vocabulary skills will also help students to be successful in this course. Students demonstrate readiness for this AP class by earning a 22 or higher on Pre ACT reading.

## **Advanced Placement U.S. Government & Politics 1 & 2**

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

This course will provide students with the opportunity to study American politics and government within the rigorous demands of an A.P. environment. As a result, students will be required to do an extensive amount of reading and writing. The ability to write free response essays is an important skill necessary for success in the class. These skills will be taught in the context of the class, but previous knowledge of the components of essay writing is essential. The class will examine the following aspects of government and politics: Constitutional underpinnings of United States government, political beliefs and behavior, political parties, interest groups and mass media, institutions of national government, public policy and civil rights and liberties. U.S. Government and Politics is equivalent to a one-semester college class.

Students demonstrate readiness for this AP class by earning a 22 or higher on Pre ACT reading.

## \*Advanced Placement U.S. History 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Advanced Placement U.S. History is a college-level class that involves an in-depth study of American History while requiring a great deal of reading, writing, and analysis. A.P. U.S. History fulfills the graduation requirement for U.S. History. The A.P. course allows students to earn college credit while in high school if they pass the exam with a sufficiently high score. The experience of taking this course in high school will better prepare students for their college course work. The Advanced Placement examination will be given at the end of the course. Students demonstrate readiness for this AP class by earning a 22 or higher on Pre ACT reading.

## \*American Domestic Affairs

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

American Problems Domestic Affairs deals with current contentious issues in American society, as well as the background of these issues. The American Dream, generations, the American political spectrum, freedom and censorship are the topics discussed. The course uses lecture, discussion, multimedia, and popular-culture activities.

## \*American Foreign Affairs

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

American Foreign Affairs deals with current contentious issues in American society, as well as the background of these issues. American foreign policy, immigration, war on drugs and international affairs are the topics discussed. The course uses lecture, discussion, multimedia, and popular-culture activities.

## Economics (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Economics is the study of how individuals and societies use scarce resources. The basic principles of the market system will be discussed. Topics covered include supply and demand, market structure, government regulation, inflation recessions, and unemployment. Students will learn to recognize concepts in the world around them. Study will be centered on lecture and group discussion.

## \*Global Relation (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Global Relations focuses on issues pertaining to human rights, conflict and war, environmental stability, and politics in all regions of the world. Students are given the unique opportunity to choose their topics of study and the manner in which those topics will be explored. Students will research multiple themes throughout the semester and will have the opportunity to share their knowledge in several different ways including multimedia presentations, speeches, and classroom debates. This course also includes multiple guest speakers on topics of interest to that particular class.

## \*History of Western Civilization 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

History of Western Civilization covers the development of civilizations from ancient times toward the present such as Ancient Greece, Ancient Rome, the Middle Ages, the Renaissance, the Reformation, Age of Discovery, Imperialism, and Industrialization.

## Modern American History

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** U.S. History 1 & 2

Modern American History is semester-long elective course in which students investigate the political, economic, and cultural development of the United States beginning with the 1960s and ending with the impact of 9-11 on America. Students will be engaged in research, writing, reading, and historical document analysis.

## \*Political Science (NC)

**Grade Level** 10-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Political Science teaches the American political system and focuses on the structure and function of the government and the political factors which determine decision making. In this regard, modern day policy issues will be studied. Subject areas covered in the class will include: the foundations of American government, political ideologies, political parties, interest groups, elections, civil rights, civil liberties, Congress, the Presidency, and the Supreme Court, as well as current events. Students should expect to participate in frequent discussions on American political issues, read about and reflect on current events, complete a variety of writing assignments, and produce both group and individual projects.

## \*Psychology

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Psychology involves the study of behavior and can help students learn to work together and to understand themselves. Students are introduced to basic principles and terminology to help them learn more about why people behave the way they do. Students are encouraged to examine their own behavior in an effort to learn more about themselves and the reasons for their behavior. Major units include: experimentation in psychology, biological factors in behavior, learning patterns, personality development, personality theory, mental health, and mental disorders.

## \*Social Studies 9 1 & 2

**Grade Level** 9 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Social Studies 9 is a year-long freshman course that focuses on civics, government and politics in semester one and geography in semester two. Semester one explores the ideas of democracy, separation of powers, federalism and political ideals while asking students to critically evaluate and connect political, economic and social themes to current events at the state and national levels of government. In the geography focus of second semester, students will be expected to learn about America's role in the world as well as some major global concerns. Students will do this through the exploration of geographic concepts, specifically: physical geography, population geography, political geography, economic geography and cultural geography.

## \*Social Studies Through Film

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester (either)

**Prerequisite(s):** None

Students explore history, culture, politics, and social movements through the lens of film. By analyzing historical dramas, documentaries, and culturally significant movies, students examine how filmmakers interpret and depict key social studies themes. Discussions will focus on historical accuracy, bias, perspective, connections to events during specific time periods, and the impact of film on public perception.

Throughout the semester, students develop critical thinking skills while making connections between past and present issues. Topics may include civil rights, war and conflict, government and politics, economics, the impact of change in society, and culture. This course primarily has a global focus with films from a variety of time periods that depict important events and concepts within social studies. A few films depict American History, primarily involving American interaction or involvement with other countries. Assignments and assessments include film analysis essays, written reflections, comparative reviews of films vs. historical accounts, class discussions (such as Socratic seminars, debates, take a stand, and four corners activities), research projects, and creative assignments that encourage students to engage deeply with both history and film.

## \*Sociology

**Grade Level** 11-12 **Credit** 1.0 **Duration** Semester

**Prerequisite(s):** None

Sociology is designed to help students understand the social consequences of people in groups. Sociology involves the scientific study of these groups with the goal of helping students understand society. Understanding social problems in America and their effect on our society requires students to be willing to do considerable reading and partake in class discussions. Units covered include: personality development, the family, social institutions, social class, race relations, crime, and the problems of the cities. Within each unit, at least one social problem is isolated and studied in detail. These include topics such as: the changing role of women, the media industry, science and sports, divorce, religious cults, death and dying, problems of the elderly, and others. **(Parent Permission needed)**

## \*U.S. History 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

U. S. History is a survey course investigating the political, economic, and cultural development of the United States beginning with the Civil War Era. U.S. History is required for graduation from Arrowhead. Students will engage in research, writing, reading and historical document analysis.

The study of a world language is both fundamental and practical in a high school education. It helps to communicate with people here in the United States and abroad, affording a better understanding of today's complex, internationally interdependent world, as well as to reinforce the development of skills in English.

Jeanne Psket, Department Chair, 369-3612, Ext. 3137

Level One*	Level Two	Level Three	Level Four	Level Five
Chinese I French I German I Spanish I	Chinese II French II German II Spanish II	Chinese III French III German III Spanish III	Chinese IV French IV German IV Spanish IV	Advanced Placement Spanish Language and Culture

*Which language? Chinese, French, German, or Spanish?*

- If a student is interested in taking one particular language, for whatever reason, this choice is probably the best one to pursue. Students who are made to take a language other than their preferred language tend to be less motivated in the language chosen for them.
- All languages are good for the global economy in which we live.
- Some students choose a world language based on their ethnic background.
- Travel is greatly facilitated by knowing the respective languages of each country.
- Ideally, the prospective language student should make this choice using a reasoned approach, considering personal interests, ambitions, and future career plans.

All World Language classes are year-long.

\* 8<sup>th</sup> grade students will receive a recommended placement from their current Spanish teacher that is based on a placement test given at their school and progress in their current classes. The teacher recommendation serves as a tool for Informed Choice. Students will sign up for their selected class during the course registration process.

If a student believes they should be placed in Spanish 3 or higher, or level 2 or higher in another language, they should email the following teachers to set up a placement test:

Chinese: [powers@arrowheadschoools.org](mailto:powers@arrowheadschoools.org)

French: [pasdera@arrowheadschoools.org](mailto:pasdera@arrowheadschoools.org)

German: [moser@arrowheadschoools.org](mailto:moser@arrowheadschoools.org)

Spanish: [roeglin@arrowheadschoools.org](mailto:roeglin@arrowheadschoools.org)



## Advanced Placement Spanish Language & Culture 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Spanish Language IV - recommended 70% or higher or consent of instructor

The Advanced Placement Spanish Language & Culture course provides students with opportunities to develop language proficiency across the three modes of communication: interpretive, interpersonal, and presentational. Students learn about culture through the use of authentic materials that are representative of the Spanish-speaking world. This is a language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where Spanish is spoken exclusively.

## Chinese I 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Chinese I is designed to develop Chinese language skills and prepare students for living in a global society. Classroom instruction is focused on developing the ability to communicate in the Chinese language by involving the students in communicative tasks. Students will learn the target language in a contemporary cultural context.

## Chinese II 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Chinese I - recommended 70% or higher.

Chinese II is designed to further enhance Chinese language skills and prepare students for living in a global society. We will continue to develop vocabulary, deepen the understanding of word formation and structures of the Chinese language, and further develop listening, speaking, reading and writing skills. Cultural topics will also be presented.

## Chinese III 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Chinese II - recommended 70% or higher.

Chinese III places a greater emphasis on advanced communication skills. Students continue to expand their vocabulary and study essential language structures in depth. Listening and speaking skills are emphasized while reading and writing skills are further developed. Students also continue the exploration of the cultures and history of Chinese-speaking countries through a variety of literature and media.

## Chinese IV 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Chinese III - recommended 70% or higher.

Chinese IV brings the students an opportunity to further develop their language proficiency by immersing them fully in the Chinese language and varied aspects of both contemporary and historical Chinese culture. The course is conducted in Mandarin Chinese and the students are required to speak in Chinese as much as possible.

This course can be taken for dual credit at UW- Milwaukee for 5 credits (Chinese 201) plus an additional 8 retroactive college credits can be earned if students earn a B or better. The instructor will provide details on how to enroll in the dual enrollment program at the start of the school year.

## French I 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

First year French introduces students to the basic concepts of French grammar and gives students a general understanding of the cultures of French-speaking areas. Students will learn basic vocabulary and expressions to talk about their daily lives and communicate with others. Students will build on their novice proficiency through the interpretive, presentational and interpersonal modes of communication.

## French II 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of French I - recommended 70% or higher.

Students will learn to express themselves in the present and past tenses while increasing their French proficiency. Vocabulary acquisition, and oral/written work are especially emphasized through study of thematic units, music and readings.

## French III 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of French II - recommended 70% or higher.

Students will improve their ability to express themselves through oral discussion and written composition. New grammatical concepts include future, conditional, and the imperative. Students will dive deeper into the French - speaking world as their thematic units prepare them for global travel and communication.

## French IV 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of French III - recommended 70% or higher.

An emphasis will be placed on oral and written proficiency. Topics covered will pertain to French culture and history. Advanced grammar will be built into thematic units that utilize a variety of authentic resources.

## German I 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

German I provides students with a beginner level exposure to the German language and culture of German-speaking regions through a variety of engaging topics. Students will be able to communicate about these topics through interpersonal speaking and writing, interpret printed and audiovisual material, and present information through speaking and writing.

## German II 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of German I - recommended 70% or higher

German II will aid students in developing their interpretive, interpersonal, and presentational skills in the German language through the study of relevant topics. Lifestyle similarities and differences will be woven in lessons throughout the year, furthering student cultural awareness of German-speaking regions.

## German III 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of German II - recommended 70% or higher

In German III, students gain fluency through vocabulary acquisition in a wide range of topics. Grammar review is included along with acquisition of higher-level grammar. Students will produce German in writing and speaking with more detail and increased accuracy. All materials aid in student understanding of culture in German-speaking countries.

## German IV 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of German III - recommended 70% or higher

In German IV, students will further develop conversation and composition skills. Students will gain an overview of history, geography, society, politics and culture. Students will present oral and written reports of their studies in German. All reading and audio-visual materials expand student understanding of German-speaking countries.

## Spanish I 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** None

Spanish I is an introductory course that starts at the novice level and provides students with grammar study, reading, and writing practice in Spanish. Students are encouraged to express themselves orally in Spanish in the present tense from the beginning through classroom experiences, dialogues, skits, presentations, and games. Spanish pronunciation is presented, and listening comprehension is aided by various audio activities and videos. All materials give broad and interesting insights into the culture and geography of the Spanish-speaking world.

## Spanish II 1 & 2

**Grade Level** 9-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Spanish I or 8<sup>th</sup> grade teacher recommendation. Students should have a 70% or higher in previous level.

Spanish II will continue the practice of the present tense learned in Spanish I and will expand to include the past tense. Continuous detail on vocabulary, grammar concepts, and sentence structure is stressed. Reading selections, audio and video activities, and interpersonal and presentational communication will support language acquisition and cultural competences.

## Spanish III 1 & 2

**Grade Level** 10-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Spanish II - recommended 70% or higher.

In Spanish III students will study thematic units while working to improve speaking, listening, reading and writing skills. Special emphasis will be placed on further developing communication skills and expanding cultural competencies.

## Spanish IV 1 & 2

**Grade Level** 11-12 **Credit** 2.0 **Duration** Year

**Prerequisite(s):** Successful completion of Spanish III - recommended 70% or higher.

Spanish IV further develops conversation and composition skills with an emphasis on Spanish/Hispanic culture. A comprehensive grammar review is presented, along with new grammar topics, studied contextually and thematically throughout the year.

# 2026 Summer School Course Guide

## Dates and Procedures

Arrowhead Summer School will be from **June 15 – July 23, 2026**, Monday through Thursday. Classes meet for 2 ½ hours per class for 6 weeks. In the description, the grade level listed is the grade level students enter 2026-2027.

**STUDENTS WILL BE REGISTERING FOR SUMMER SCHOOL COURSES AT THE SAME TIME THEY ARE SELECTING COURSES FOR THE NEXT SCHOOL YEAR.** This is important for overall planning, including those who may be interested in improving their grades for courses already taken. Online requests are in priority of grade level in school (Example: seniors first, then juniors, etc.) and the date of registration.

Online registration for summer school courses begins in February. If there are sufficient students enrolled to offer the course, students may continue to add, if space is available until June 12, 2026. We do not maintain a waiting list for classes that fill up quickly. Families are encouraged to continue to check Skyward for open seats in the class, as students drop.

## Grading

- Students will receive the grade they earn during summer school.
- When a student is repeating a course to earn credit (previously failed the course) the transcript will be updated to reflect the new grade. An "R" replaces the "F" to identify the course that was repeated.
- **Arrowhead strives to ensure that course curriculum is the same as that is offered during the school year.**
- Final exams are required for all summer school courses.
- For year-long courses, summer school classes may only be taken once.

## Policies and Procedures

- An enrollment of 10 students is necessary for the course to be offered.
- No student absence is excused from summer school for any reason other than an unforeseen emergency. Summer school students are expected to attend for the full-specified term of the course. "Every day and on time" applies to summer school, whether the class is held virtually or in person. Some classes or parts of classes will be synchronous to the times listed in the summer school guide. Teachers will explain when students will be expected to be online.
- **Students absent for more than "two sessions" will be dropped and an "F" placed on the transcript. PE Adventure Education students are allowed NO absences.**
- **Four "tardies" are equal to one absence. If a student is tardy for more than 20 minutes, the student is considered absent and expected to stay for the remainder of class.**
- **Students who drop a full credit course after the first week will receive an "F". If a student requests a drop within the first week, no penalty will be issued.**
- Arrowhead school year expectations concerning conduct and behavior apply in the summer session, this includes virtual learning expectations and etiquette.
- Courses identified with an (\*) are generally recognized as academic units for college admission.
- The program is available to all residents of the Arrowhead School District. Non-residents may attend summer school. Non-residents (who are not open enrolled during the school year) should contact the North Campus Associate Principal or the Director of Learning about enrollment information.
- Children in the school district on a vacation basis will be considered as resident students providing they and their parents or legal guardians reside within the school district for the full duration of the course selected.
- Students and parents/ legal guardians should contact their counselor prior to the end of the regular school year if they have questions or concerns. **This is particularly important for students who are credit deficient.**

Summer School courses are listed alphabetically within the department. Note that there are times offered for each course to aid in planning, however those times can change – and families will be notified. Not all courses will run at both times; sections are based on enrollment size. Please note that a course a student registers for may be canceled due to low enrollment (less than 10). In this event you will be notified via email.

# Summer School – Online Courses

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Please read the descriptions carefully so that expectations are clear for online classes. Students enrolled in online courses need to be self-directed, motivated, meet deadlines, participate weekly in forums, chats, and collaborative work.

Students who are interested in the online classes should consider the following:

1. Expect to be online daily throughout the week.
2. Attend at a healthy pace for the class. Students should be realistic with their summer plans when they take an online class (must have internet access).
3. Log in to the course management system sometime in the first three days of summer school.
4. Attend office hours with instructors as needed (if earning a C- or below this is a must). Office hours will be shared by individual teachers.
5. Required to participate in weekly online discussions.
6. Communicate with their teacher (s) on a regular basis.
7. **Students cannot take more than two online classes at one time** (can take ONE additional summer school course).



## ENGLISH

### \*Composition

**Grade Level** 11-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period** Online

**Prerequisite(s):** None

Composition is an online course and it will focus on the writing process. This will include the concepts of writing well: brevity, clarity, word choice, mechanics, voice, style, organization, audience, and paragraph development. Students will also study vocabulary with application to ACT-timed writing. A portfolio of work, including narrative, informative, explanatory, and impromptu and opinion, will be compiled. Students are expected to meet with the online teacher in a face-to-face setting before the course begins.

### \*Creative Writing

**Grade Level** 11-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period** Online

**Prerequisite(s):** None

Creative Writing is an online course. Using Canvas, students will: write for a purpose, submit and publish pieces, work independently on pieces for a variety of writer's markets and work on individual interests. Students are expected to meet with the online teacher at least once in a face-to-face setting before the course begins.

### \*English 9

**Grade Level** 10-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period** 7:30 am - 9:55 am

**Prerequisite(s):** English 9 1 & 2

Students enrolled in English 9 will focus on grammar skills, writing and mechanics, reading, research, and speech. The course content and teaching methods are designed to appeal to all students. Students will learn college and career skills. English 9 is required for graduation.

### \*English 10

**Grade Level** 11-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period** 10:00 am - 12:25 pm

**Prerequisite(s):** English 10 1 & 2

English 10 a required course for graduation consisting of three main components: literature, writing and grammar, and communications. Literature will be specifically selected for Summer School. The writing component focuses on grammar review of key skills and solid paragraph and essay structure primarily for literature analysis. Students will deliver several oral presentations. They will learn strategies for preparing, organizing and delivering a speech. This Summer School course is for those students who have already taken English 10.

### \*English 11

**Grade Level** 11-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period**

**Prerequisite(s):** English 11 1 & 2

English 11 is a required course for graduation is intended for students who have already taken English 11. Reading literature, writing, grammar and other forms of communications will be the focus.

## HEALTH

### Health

**Grade Level** 9-12 **Credit** 1.0 **Duration** 6-week Summer  
**Class Period** 7:30 am - 9:55 am or 10:00 am - 12:25 pm

**Prerequisite(s):** NONE

Health class emphasizes how individuals protect, maintain, and improve their health by developing, establishing and achieving positive lifestyle goals. **This course is fast-paced and requires nightly outside reading.** Students are to electronically submit assignments on a weekly basis. Topics: Wellness and Consumerism, Nutrition/Physical Activity, Alcohol/Tobacco/Medicines, Disease Prevention, First Aid/CPR/Safety, Mental Health, and \*Human Growth & Development. Some weekly assignments require internet access outside of school. Meets graduation requirements for Health.

*\*If a parent wishes to have their child exempted from any or all areas of this section, independent study materials will be provided for that student during the exemption. Requests for exemption of all or part of Human Growth and Development must be submitted on the first day of health class. See the full Arrowhead High School Curriculum Guide for more details.*

## SUMMER SCHOOL

### MATHEMATICS

#### \*Algebra

**Grade Level** 10–12 **Credit** 1.0 **Duration** 6–week Summer

**Class Period** 7:30 am – 9:55 am

**Prerequisite(s):** Algebra 1 & 2 or Algebra B 1 & 2

Algebra follows the course description from the regular Arrowhead High School Curriculum Guide. The Summer School course covers the 2nd semester of Algebra curriculum. Students who completed Algebra or Algebra B during the school year are eligible to take this Summer School course. For Algebra B students, The Algebra B course grade on the transcript will be replaced with the Summer School grade and the title of Algebra B remains on the transcript.

### MUSIC/THEATER

#### Broadway Company

**Grade Level** 9–12 **Credit** 1.0 **Duration** Summer School

**Class Period** TBD

**Prerequisite(s):** Audition

Broadway Company is required for all troupe members. Students work with a professional choreographer, preparing for the fall music theater performance. Also included are vocal sessions, student leadership opportunities, and team building activities. Included in this 9-day study will be intensive work with character development, vocal part work and memorization, and intense dancing. If Broadway Company dates and times conflict with other summer school courses, students will need to plan accordingly. They will not be excused from regularly scheduled summer school during the week of Broadway Co.

#### Marching Band

**Grade Level** 9–12 **Credit** 0.5 **Duration** Summer School

**Class Period** August 10–13

**Prerequisite(s):** Audition

Marching Band camp is required for all members. Students work to prepare for the fall marching band season. Included in this course are instrument sectionals, student leadership opportunities, team building exercises, intensive music rehearsal, memorization, marching drill rehearsal, and marching activities.

## PHYSICAL EDUCATION

### Adventure Physical Education

**Grade Level** 12 **Credit** 1.0 **Duration** Summer School

**Class Period** See Session Dates

**Prerequisite(s):** None

Adventure Physical Education offers students outdoor experiences and recreational activities designed for lifetime fitness. Students must attend all of the classes to receive credit. There is an enrollment cap for this course. Students will be expected to be able to climb at height, swim, fish and ride a horse among other outdoor physical challenges. These classes run for full days.

2026 Session 1: 6/15, 6/16, 6/18, 6/22, 6/24, 6/29, 7/1

2026 Session 2: 6/15, 6/17, 6/22, 6/23, 6/25, 6/30, 7/2

2026 Rain Dates: 7/6, 7/7

### Performance Training

**Grade Level** 10–12 **Credit** 1.0 **Duration** 6-week Summer

**Class Period** 10:00 am – 12:25 pm

**Prerequisite(s):** None

Performance Training is offered as a component of a schoolwide fitness and conditioning program. Students engage in movement through all planes of motion by establishing high levels of functional strength and neuromuscular efficiency. Classes will integrate flexibility, core, balance, plyometric, speed/agility/quickness, resistance, and cardiorespiratory training. Due to its flexibility, this course is an excellent choice for the beginner to the highly skilled and will focus on improvement at all skill levels.

### Traditional Physical Education

**Grade Level** 9–12 **Credit** 1.0 **Duration** 6-week Summer

**Class Period** 7:30 am – 9:55 am or 10:00 am – 12:25 pm

**Prerequisite(s):** None

Traditional Physical Education is similar to the curriculum offered during the school year in the individual and team courses. Attendance and participation are mandatory. Each student must dress with appropriate attire for each unit. The class will use facilities at South and North Campuses. The class will meet on poor weather days without exception.

## SOCIAL STUDIES

### \*American Affairs

**Grade Level** 10–12 **Credit** 1.0 **Duration** 6-week Summer

**Class Period** Online

**Prerequisite(s):** None

American Affairs is an online course. The students will explore current events in American society, as well as the background of these issues. Units include: economics, government, civil rights, urban problems, and foreign affairs. The class will consist of some predetermined issues, but will primarily be events and issues that arise during the summer. Students are expected to meet with the online teacher at least once in a face-to-face setting before the first day of class to discuss course expectations

### \*Political Science

**Grade Level** 10–12 **Credit** 1.0 **Duration** 6-week Summer

**Class Period** Online

**Prerequisite(s):** None

Political Science is an online course that teaches the American political system and deals with both the structure and function of the government and the political factors which determine decision making. In this regard, current political events/issues will be studied. These issues will vary according to the policies and events the government is dealing with at the time of the class. Subject areas covered in the class will include the Constitution, ideology, political parties, interest groups, elections, Congress, the Presidency, and the Supreme Court, as well as current policy studies. Students should expect to read a great deal and complete a variety of writing assignments and projects. Students are expected to meet with the online teacher at least once in a face-to-face setting before the start of summer school.

## GENERAL ELECTIVES

### ACT Prep Session

**Grade Level** 11 **Credit** None **Duration** June 15 – August 11

**Class Period** Mondays or Tuesdays at 1:00 pm or 2:15 pm  
(Located at South Campus)

**Prerequisite(s):** None

Students looking to practice and improve their ACT scores can sign up for the 9 sessions (flexible). These sessions will be rich academic coaching in subject categories of the ACT: English Reading and Science. Session sizes will be small/limited and are intended for Juniors. For registration, questions, and details, please contact Lauren Bartel at theACTadvantage@gmail.com See flyer for more details. Please note, this is not a credit bearing/transcripted summer school class.

**There is a fee for the sessions.**

### College Essay Workshop

**Grade Level** 12 **Credit** 0.25 (pass/fail) **Duration** August 11-14

**Class Period** Sessions are held virtually

**Prerequisite(s):** None

The College Essay Workshop will help students understand what college admissions officers desire in a college essay. The workshop will focus on the principles of good writing, including the components of a compelling narrative. Students will plan, draft, write, share and receive feedback from multiple teachers and students. They will learn about creating an application with purpose and consistency through example essays and readings. This workshop is for seniors only and will happen via Zoom. Although students need to sign up for one session, they can flip between the two without penalty. Students will receive a quarter credit if they attend four sessions. The course is pass/fail. Students sign up for the College Essay Workshop on Skyward; students will then be added to the Canvas course where students can view the hour-by-hour schedule.

### Flight – Senior Experience

**Grade Level** 12 **Credit** None **Duration** August 12, 2026

**Class Period** 12:30 pm – 3:00 pm

**Prerequisite(s):** None

Flight is designed as a focused opportunity for seniors to “plan ahead to get ahead” on preparing for life after Arrowhead. This workshop format will focus on such topics as the college application, transcripts, choosing the right college, exploring majors and careers, obtaining letters of recommendation, scholarship opportunities, financial aid and senioritis. Using a variety of methods, including guest speakers, computer searches, projects and lectures students who successfully complete Flight will help students acquire skills to make college transition positive. Flight is highly encouraged for all college-bound seniors.

**All students should bring a device to participate on this day.**

### Wings – Freshman Experience

**Grade Level** 9 **Credit** 0.25 (pass/fail) **Duration** August 20-22

**Class Period** 7:30 am – 12:00 pm

**Prerequisite(s):** None

Wings introduces freshmen to the high school experience to pave the way for a smooth transition to Arrowhead. The course consists of 3-half day sessions using team building, small groups, and other activities to help students get an introduction to the environment, meet new friends and become a part of the Arrowhead community.

*Please note- when signing up for WINGS the schedule will show the summer school dates from beginning to end.*

# Arrowhead 2026-27 Student Fees- Draft

(Pending Board approval in May 2026)

DEPARTMENT/COURSE	FEE
Book Fee	\$80
Chromebook (Rent to own)	\$75
Parking Fee	\$110/Sem
Athletic Fee	\$200
Activity Pass	\$55
ART	
2D Design	\$15/Sem.
Advanced 2D Design	\$20/Sem.
3D Design	\$20/Sem.
Art Seminar	\$15/Sem.
Ceramics	\$20/Sem.
Advanced 3D Design (Ceramics)	\$30/Sem.
Adobe Design I	\$15/Sem.
Adobe Design II	\$15/Sem.
Design Concepts	N/A
Drawing and Illustration	\$25/Sem.
Painting Studio	\$20/Sem.
Digital Photography	\$15/Sem.
Sculpture	\$30/Sem.
AP Studio Art	\$20/Year
Video & Animation	\$10/Sem.
BUSINESS AND MARKETING	
Entrepreneurship Venture	N/A
Introduction to Business	\$5/Sem.
Marketing and Business	N/A
Sales and Promotions	N/A
Sports & Entertainment Manag.	N/A
WeDesign.com	N/A
Yearbook	\$10/Year
AP MicroEconomics	\$12/Year
ENGLISH	
English 9	\$23/Year
English 9 Honors	\$23/Year
English 10	\$10/Year
English 11	\$23/Year
AP English Literature & Comp.	\$23/Year
Hist. of Western Civ/Eng. 10 Block	N/A
FAMILY AND CONSUMER EDUCATION	
Culinary Food	\$30/Sem.
Design and Clothing	n/a
Fashion Analysis	n/a
Food and Nutrition	\$30/Sem.
Food and Nutrition II	\$30/Sem.
Interior Design	\$10/Sem.

DEPARTMENT/COURSE	FEE
HEALTH SCIENCE	
Health Practicum	\$20/Year
Medical Term & Business Pract	\$15/Sem.
MUSIC	
Music (max. \$50/student/year)	\$25/Year/Class
Music (max. \$50/student/year)	\$12.50/Sem. Class
PHYSICAL EDUCATION AND HEALTH	
Adventure P.E.	\$36/Sem.
Aerobic Fitness for Life	\$36/Sem.
Individual P.E.	\$36/Sem.
Performance Training	\$24/Sem.
Physical Education AM	\$24/Sem.
Physical Education 10	\$36/Sem.
Physical Education 11/12	\$36/Sem.
Team Physical Education	\$36/Sem.
SCIENCE	
AP Biology	\$10/Year
Chemistry (glassware)	\$8/Year
Chemistry Accelerated	\$8/Year
AP Chemistry	\$10/Year
Engineering and Mechanics	\$25/Year
	N/A
Physical Science (Science 9)	\$20/Year
Science 9/Biology Accelerated	\$20/Year
SOCIAL STUDIES	
AP European History	\$12/Year
AP Human Geography	N/A
AP Macroeconomics	\$12/Year
AP Psychology	\$12/Year
AP U.S. Government and Politics	N/A
AP U.S. History	\$12/Year
TECHNOLOGY & ENGINEERING	
Automotive Technology I	\$25/Sem.
Automotive Technology II	\$25/Sem.
Advanced Automotive Tech.	\$30/Sem.
Cabinetmaking	\$30/Year
Civil Engineering & Architecture	\$30/Sem
Consumer Auto	\$25/Sem.
Engineering and Mechanics	\$30/Year
Engineering Design & Development	\$30/Year
Intro. to Engineering & Manufacturing	\$30/Year

DEPARTMENT/COURSE	FEE
TECH & ENGINEERING CONT.	
Machining I	\$40/Year
Manufacturing & Engineering w/Materials	\$30/Year
Metal Fabrication I	\$30/Year
Metal Fabrication II	\$30/Year
Woods Production I	\$20/Sem.
Woods Production II	\$20/Sem
WORLD LANGUAGES	
Chinese I -	N/A
Chinese II -	N/A
Chinese III -	N/A
Chinese IV - (online workbook)	\$40
French I	N/A
French II	N/A
French III	N/A
French IV	N/A
German I - (1 workbook)	\$31
German II - (1 workbook)	\$31
German III- (1 workbook)	\$31
Spanish I - (workbook)	N/A
Spanish II - (workbook)	N/A
Spanish III - (workbook)	N/A
Spanish IV - (workbook)	N/A

Please Note - not listed above are AP courses where students pay a test fee if they wish to take the AP exam in May. This fee is collected separately from other course or school fees. AP Test Fee is \$105 per test/course. Additionally, CCIHS, CAPP and DUAL ENROLLMENT may have additional fees.

Additional school fees listed in the Arrowhead Parent/Student Handbook.

## Arrowhead Chromebooks

Beginning with the class of 2027, in order to ensure consistent teaching and learning experiences, provide effective technology support, and create coherent technology solutions, students are now issued a Chromebook device through the Cooperative Technology Program. For more information about the Cooperative Technology Program, contact Donna Smith.

# Arrowhead Contacts

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## Academic Counseling – Assistance in Program Selection

The primary goal of academic counseling is to help each student obtain the best possible education throughout high school. Contact the school counseling office for assistance.

Additional information may be obtained through Arrowhead's website: [www.arrowheadschoools.org](http://www.arrowheadschoools.org)  
Department Program and/or Teacher Leaders can further assist with course selection. Names of Program and/or Teacher Leaders can be found at the start of each department.

### North Campus 262-369-3612

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### School Administration

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