



TRADITION OF EXCELLENCE

**2025-26**

**Course Guide and Summer School Guide**



**Arrowhead High School**  
**700 North Avenue Hartland WI 53029**  
**Phone: (262) 369-3611**

### **Administration**

Principal: Mr. Adam Kurth - Ext. 4102  
Associate Principal North Campus: Ms. Becky Gordon - Ext. 4210  
Associate Principal South Campus: Ms. Sarah Vogel - Ext. 4199  
Director of Learning: Mrs. Sue Casetta - Ext. 4204  
Director of Student Services: Mr. Adam Boldt - Ext. 4112

### **Counselors**

#### **North Campus:**

A-G: Mrs. Kelly Matthias - Ext. 4212  
H-O: Mr. Todd Reineking - Ext. 4215  
P-Z: Mrs. Angie Rodenkirch - Ext. 4218  
Counseling Secretary: Ann Olson - Ext. 4209

#### **South Campus**

A-G: Mr. Thomas Stuber - Ext. 4124  
H-O: Mrs. Barbara Whyte - Ext. 4115  
P-Z: Mrs. Molly Sroka - Ext. 4118  
Counseling Secretary: Michelle Hill - Ext. 4114

### **Counseling Assistance in Program Selection**

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



## **Arrowhead High School Vision and Mission**

### **Vision**

Arrowhead will be an educational leader in creating pathways for students to embrace the opportunities of tomorrow.

### **Mission**

Empower students to be engaged, confident, continuous learners who utilize the essential skills to collaborate and contribute within the local and global community.

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



# Table of Contents

Arrowhead Website: [www.arrowheadschoools.org](http://www.arrowheadschoools.org)

Programs and Information	Page
Course Selection Information.....	5
New Courses, Major Revisions and Name Changes for 2025-26 .....	6
Arrowhead Schedule .....	7
Additional Learning Opportunities.....	8
Additional Information .....	9
College and Career Exploration .....	12
Career Pathways.....	13
Career and Technical Education (CTE).....	16
CTE: Business and Marketing.....	21
CTE: Family and Consumer Eduction .....	25
CTE: Health Science.....	28
CTE: Technology and Engineering .....	31
Computer Science.....	37
English.....	38
General Electives.....	42
Global Experience.....	44
Mathematics.....	46
Music.....	51
Physical Education and Health.....	55
Science .....	59
Social Studies.....	66
Visual Arts .....	71
World Languages.....	75
Summer School.....	81
Arrowhead Device Guidelines.....	89
Course Fees.....	90



## Course Selection Information

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 and Parent Information Guides](#).

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.**

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. Students select up to 8 classes per semester. Full time student status is 7 classes per semester.

Changes may be made in the first six days of each semester depending on 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 (from 8 credits to 7 credits) or switch to the same content to maintain fulltime status
- C. 10 school days to drop an AP class and add a different class.
- D. 10- 20 school days to drop 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.

Some English, Social Studies, Mathematics, or Science courses do not meet academic unit requirements for admission to the University of Wisconsin system 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.

University of Wisconsin System 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.

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.

### 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 for classroom teachers to change at semester.

# Graduation Requirements

## 8 SEMESTERS OF ENGLISH

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

## 6 SEMESTERS OF 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 SEMESTERS OF SCIENCE

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

## 6 SEMESTERS OF MATHEMATICS

## 2 SEMESTERS OF CAREER AND TECHNICAL EDUCATION

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

(Please NOTE: Starting with the class of 2028- students must complete 3 CTE SEMESTERS WHICH MUST INCLUDE Personal Finance or College Personal Finance.)

## 3 SEMESTERS OF PHYSICAL EDUCATION

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

## 1 SEMESTER OF HEALTH

## 2 SEMESTERS OF FINE ARTS

- Music, Art, or Acting

## 16 ADDITIONAL SEMESTER CLASSES

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

# NEW COURSES, MAJOR COURSE REVISIONS AND PROCEDURE CHANGES FOR 2025-2026

- GRADUATION REQUIREMENT Personal Finance Required for the class of 2028 and beyond (Business Department)
- ADD Personal Finance CAPP (Business Department)
- ADD Youth Apprenticeship-Finance (Business Department)
- ADD US HISTORY 3 (Social Studies Department)
- NAME CHANGE American Problems- American Domestic Affairs; American Foreign Affairs (Social Studies Department)
- ADD Dual Enrollment Chinese 4 (World Languages Department)
- COMBINE Developing Relations/Human Relations (FCS Department)- Now called Human Relations
- ADD English 11 (Summer School)
- REMOVE Computer Integrated Manufacturing (Technology and Engineering Department)
- REMOVE ALGEBRA B (Math Department)
- NAME CHANGE – World of Foods is now called International Cuisine

# Arrowhead Block Schedule

Arrowhead courses run on an alternate day block (A/B Block) schedule and include a daily resource period.

START	END	RED DAY	BLUE DAY
7:20 AM	7:50 AM	Resource	Resource
7:57 AM	9:22 AM	1st Block	5th Block
9:30 AM	10:58 AM	2nd Block	6th Block
10:58 AM	11:28 AM	A lunch	A lunch
11:32 AM	12:57 PM	3A Block Class	7A Block Class
	OR		
11:06 AM	12:31 PM	3B Block Class	7B Block Class
12:31 PM	1:01 PM	B lunch	B lunch
1:05 PM	2:30 PM	4th Block	8th Block

## Additional Learning Opportunities

### 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 is available in the school counseling office.

### 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 in our Technology and Engineering Program. 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 district will pay, up to the equivalent of 18 postsecondary semester credits per pupil.

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

[OTTOWA UNIVERSITY](#)

[UW SYSTEM](#)

[PRIVATE SCHOOLS](#)

[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.

## **Additional Information**

### **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**

External credits approvals are rare and are granted in extenuating circumstances. Students are limited to ONE credit transcribed from external experiences (not ECCP, SCN, CCIHS or Part-Time Open Enrollment).

The following procedures apply to students requesting external credits;

1. Pre-approval is required beginning with the school counselor, followed by the principal.
2. Online, correspondence and external credits must be earned from accredited institutions and not replace a course in the Arrowhead curriculum or be utilized to bypass courses in the Arrowhead Curriculum.
3. External credit costs are the responsibility of the student and his/her family.
4. Official transcripts must be submitted, from the awarding institution, at least five days prior to the graduation ceremony.
5. External credits will be awarded a Pass/Fail grade.

### **Flexible Scheduling Option**

Flexible Scheduling Option (FSO) allows Juniors and Seniors to arrive late or leave early. FSO is every other day course. Students who want to add FSO to an existing schedule must have a 1st, 5th, 4th or 8th period block open. Scheduled classes cannot be moved to add FSO. Students may only have one FSO release per semester.

Students may take one less course or replace their study hall each semester. Students with FSO during 1st or 4th period block must report to the Resource period if a teacher is requesting they attend and/or when there is a school-wide Resource period activity.

FSO may be revoked for behavior and/or attendance issues and will be determined at the discretion of Administration. Student's fulltime status may be affected if they become ineligible for FSO. This could impact WIAA athletics, Social Security benefits, automobile insurance, etc.

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.**

### **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 take 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.

### Work Release

Seniors have the option of scheduling time at the end of the day for work release. Students must be on track to graduate, have good attendance, and be in good academic standing. Students who sign a work release contract understand that they must work at least 15 hours a week. While work release is not credit-bearing, a work release contract does count as a “class” in a student’s schedule. Please see a counselor and review the [Work Release Form](#) for more information.

## **Enrollment**

See Arrowhead 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.

### 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/openenrollment/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 November and will be approximately \$105 per test.

## **Grading**

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 is the semester grade.

### 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

Wisconsin ACT 95 requires high school students to be given a class rank for the purpose of guaranteed admissions to the University of Wisconsin System. The program is called the Wisconsin Guarantee. All students who qualify for Wisconsin Guarantee will be notified of their status in the summer of their junior year, and the rank may be reflected on the transcript. Please see the [Wisconsin Guarantee website](#) for more information.

### Grading System

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:

GRADE	PERCENT	SCALE	AP
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 a "R" replacing the "F" to identify that the course was repeated. This procedure will provide a record that is historically accurate and will not penalize the student's GPA. Students may not repeat classes to earn a better grade other than "F."

## **College & Career Exploration**

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.

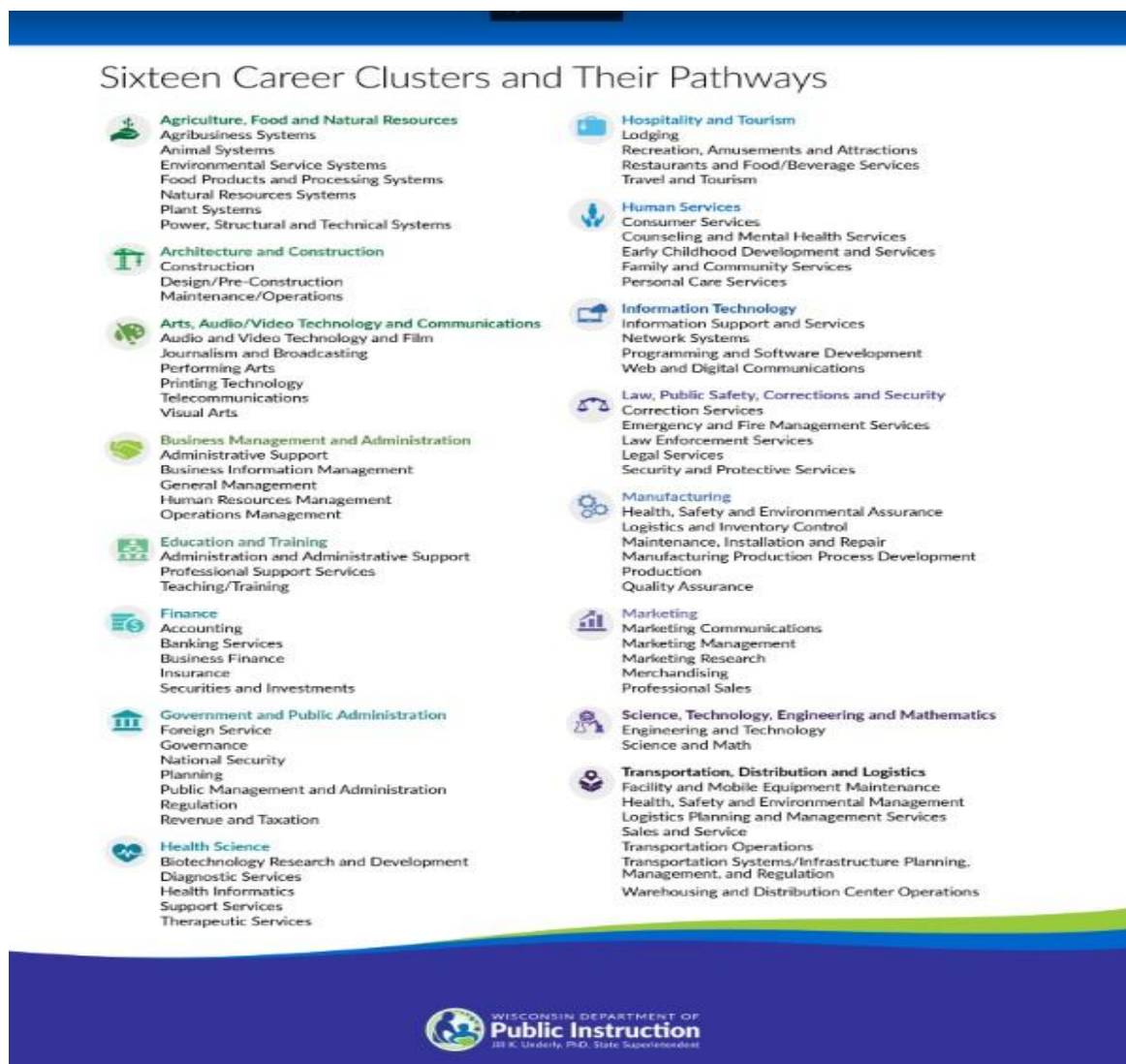
Students and parents are invited to visit the Arrowhead High School Website at [www.arrowheadschoools.org](http://www.arrowheadschoools.org) to learn more about the high school opportunities for career exploration and postsecondary planning. Teachers and counselors organize field trips, guest speakers, 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

**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.](#) (LINK)



# Academic and Career Planning Student Reflection:

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

**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 these 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 a 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.





## CTE CAREER PATHWAYS

### 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 Organization
Health Occupations (10th - 12th) Medical Terminology & Business Practices (10th - 12th) Health Practicum (12th) EMT - B (12th grade)	Nursing Assistant  Nationally Recognized Emergency Medical Technician	Basic Life Support (CPR)  Certified Nursing Assistant	Health Youth Apprenticeship Program (Resident Aide, Nursing Assistant, Pharmacy Technician, Dental Assistant) (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
Intro to Engineering & Manufacturing (9th - 12th grade)	UWGB		Youth Apprenticeship (11th - 12th grade)	
Manufacturing & Engineering with Materials (10th grade)				
Woods Production I and II (11th - 12th grade)				
Cabinetmaking (12th grade)				
Metal Fabrication I (11th - 12th grade)	Gas Arc Welding I through Metal Fab I - WCTC	Sawblade + Core-Woodworking Career Alliance	Warhawk Manufacturing & Employability Skills (12th grade)	Skills USA
Metal Fabrication II (12th grade)				
Machining I (11th - 12th grade)				
Warhawk Manufacturing (12th grade)				



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 Organization
<p>Introduction to Business (9th - 10th grade)</p> <p>Careers &amp; Employment Success (9th - 12th grade)</p> <p>Business Law (11th - 12th grade)</p> <p>Marketing &amp; Business (9th - 12th grade)</p>	<p>Entrepreneurship Venture (11th - 12th grade) UW Oshkosh</p> <p>AP Microeconomics (11th - 12th grade)</p>	<p>Youth Apprenticeship (11th - 12th grade)</p>	<p>DECA</p>

### EDUCATION AND TRAINING

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

### FINANCE

CTE COURSES	COLLEGE CREDIT OPPORTUNITIES	Work Based Learning Experiences

Accounting (10th - 12th grade)	College Accounting (11th - 12th grade)	Youth Apprenticeship (11th - 12th grade)
Personal Finance (10th - 12th grade)	AP Microeconomics (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 (9th - 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)	DECA

### SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

CTE COURSES	College Credit Opportunities	Work Based Learning Experiences	Career and Technical Student Organization

Intro to Engineering and Manufacturing (9th - 12th grade)	UW Green Bay		
Civil Engineering and Architecture (PLTW) (10th - 12th grade)	UW Green Bay	Youth Apprenticeship (11th - 12th grade)	
Engineering and Mechanics (PLTW) 1 & 2** (Principles of Engineering AND Physics/ AP Physics) (10th - 12th grade)	UW Green Bay		Skills USA
Engineering Design and Development (PLTW) (11th - 12th grade)	UW Green Bay	Warhawk Manufacturing (12th grade)	

## 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)	Advanced Automotive (12th grade)	Youth Apprenticeship (11th - 12th grade)	Skills USA

# CAREER AND TECHNICAL EDUCATION (CTE)

## 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.

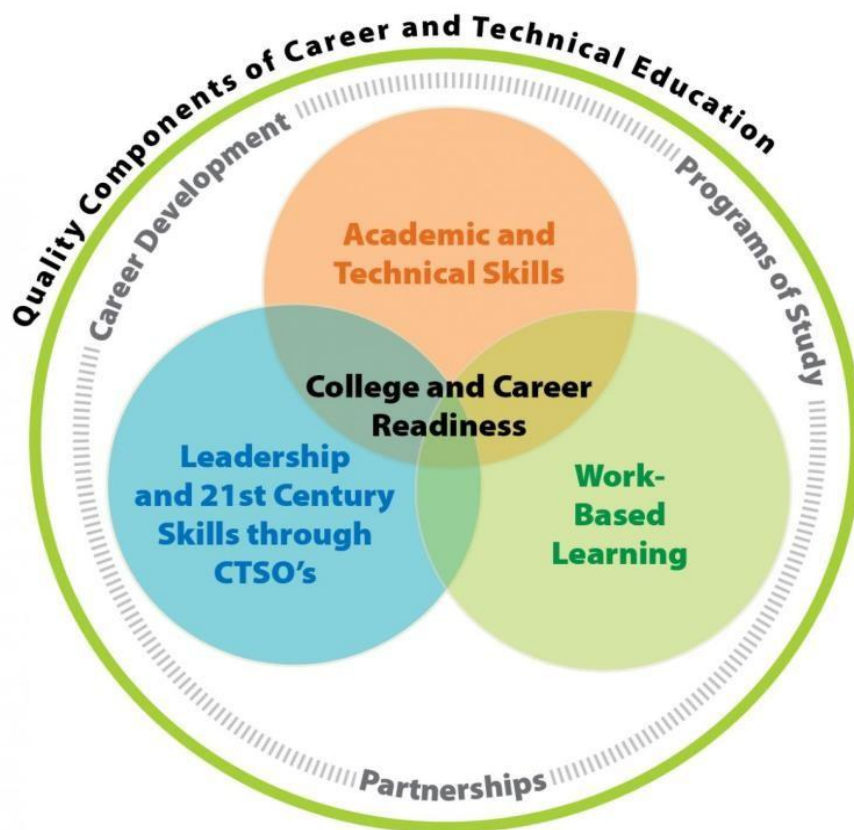
## Departments

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

## Graduation Requirements

2 credits- Class of 2025, Class of 2026, and Class of 2027

3 credits- of which 1 must be Personal Finance for the Class of 2028 and beyond.



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.”

# Career and Technical Education: Business and Marketing

Our mission is to offer Arrowhead students a comprehensive Business & Marketing program through **Rigorous, Relevant, and EverChanging** 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.

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

Available opportunities connected through coursework  
-DECA (an Association of Marketing Students)

**CTE  
BUSINESS AND MARKETING**

<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
<p>Accounting 1 &amp; 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.</p>	<p><b>ACCOUNTING 1 &amp; 2</b>            Credit: 2            Grade: 10-12            Prerequisite: None            Duration: Year</p>
<p>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 for success.</p>	<p><b>ADVANCED PLACEMENT MICROECONOMICS 1 &amp; 2</b>            Credit: 2            Grade: 11-12            Prerequisite: None            Duration: Year</p>
<p>Career &amp; 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.</p>	<p><b>CAREER &amp; EMPLOYMENT SUCCESS</b>            Credit: 1            Grade: 9-12            Prerequisite: None            Duration: Semester</p>
<p>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.</p>	<p><b>COLLEGE PERSONAL FINANCE</b>            Credit: 1            Grade: 11-12            Prerequisite: None            Fee: CAPP college tuition at UW Oshkosh</p>
<p>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.</p>	<p><b>BUSINESS LAW</b>            Credit: 1            Grade: 11-12            Prerequisite: None            Duration: Semester</p>



<p>College Accounting 1 &amp; 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.</p>	<p><b>COLLEGE ACCOUNTING 1 &amp; 2</b>  Credit: 2  Grade: 11-12  Prerequisite: Accounting 1 &amp; 2  Duration: Year</p>
<p>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.</p>	<p><b>COMPUTER ESSENTIALS</b>  Credit: 1  Grade: 9-10  Prerequisite: None  Duration: Semester</p>
<p>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.</p>	<p><b>ENTREPRENEURSHIP VENTURE</b>  Credit: 1  Grade: 11-12  Prerequisite: None  Duration: Semester  CAPP Credit with UW Oshkosh (optional)</p>
<p>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.</p>	<p><b>INTRODUCTION TO BUSINESS</b>  Credit: 1  Grade: 9-10  Prerequisite: None  Duration: Semester</p>
<p>Marketing &amp; 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.</p>	<p><b>MARKETING &amp; BUSINESS</b>  Credit 1:  Grade: 10-12  Prerequisite: None  Duration: Semester</p>

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.	<b>MULTIMEDIA/GRAPHIC APPLICATIONS</b> Credit: 1 Grade: 9-12 Prerequisite: None Duration: Semester
--	--

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. <b>PLEASE NOTE: Beginning with the CLASS OF 2028 must take Personal Finance as part of Graduation Requirements.</b>	<b>PERSONAL FINANCE</b> Credit: 1 Grade: 10-12 Prerequisite: None Duration: Semester
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.	<b>PERSONAL LAW</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
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.	<b>SALES &amp; PROMOTIONS</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
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.	<b>SPORTS &amp; ENTERTAINMENT MANAGEMENT</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester

<p>Study Skills &amp; 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.</p>	<p><b>STUDY SKILLS &amp; STRATEGIES</b>  Credit: 1  Grade: 9-10  Prerequisite: None  Duration: Semester</p>
<p>Web Design 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.</p>	<p><b>WEB DESIGN</b>  Credit: 1  Grade: 11-12  Prerequisite: None  Duration: Semester</p>
<p>The Youth Apprenticeship – Finance program is designed for students 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), students 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</p>	<p><b>YOUTH APPRENTICESHIP</b>  Credit:  Grade: 11-12  Prerequisite:  Duration: Year</p>

# Career and Technical Education: Family and Consumer Education

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 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.

	Culinary Arts	Design	Education & Training
9th Grade	Food & Nutrition I Food & Nutrition II	Design & Clothing	Early Childhood Education
10th Grade	Food & Nutrition I Food & Nutrition II	Design & Clothing	Early Childhood Education Human Relations
11th & 12th Grade	Food & Nutrition I Food & Nutrition II Culinary International Cuisine	Design & Clothing Fashion Analysis Interior Design	Early Childhood Education Human Relations Child Development

**CTE**  
**FAMILY AND CONSUMER EDUCATION**

DESCRIPTION	COURSE TITLE
<p>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.</p>	<p><b>CHILD DEVELOPMENT</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: First Semester</p>
<p>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.</p>	<p><b>CULINARY FOOD</b> Credit: 1 Grade: 11-12 Prerequisite: Food and Nutrition And one other foods class Duration: Second Semester</p>
<p>This course offers almost 100% hands-on learning, where students explore a variety of sewing techniques. This semester course introduces students to the areas of fabric, textile design, and sewing construction. Students will learn how to hand stitch, operate the sewing machine, apply pattern directions to garment construction, become environmentally friendly sewers, and practice basic quilting techniques. Problem solving and time management will be emphasized in this course. Careers associated with fashion and textiles may be highlighted throughout the course as well.</p>	<p><b>DESIGN &amp; CLOTHING (SC)</b> Credit: 1 Grade: 9-12 Prerequisite: None Duration: First Semester</p>
<p>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.</p>	<p><b>EARLY CHILDHOOD EDUCATION</b> Credit: 1 Grade: 9-12 Prerequisite: None Duration: Second Semester</p>

## CTE

### FAMILY AND CONSUMER EDUCATION

#### DESCRIPTION

#### COURSE TITLE

Fashion Analysis includes cultural aspects of clothing, fashion personalities, designers, fibers and fabrics, and application of elements and principles that create well-designed fashions. Students work with principles and elements of design to create illustrations of apparel and/or accessories. Students determine their most flattering styles and colors and act as their own “client” to create a CORE wardrobe applying principles learned throughout the semester. The final project challenges students to create a fashion based upon the specifications given by the teacher. Career information is provided throughout the semester.

#### **FASHION ANALYSIS**

Credit: 1  
Grade: 11-12  
Prerequisite: None  
Duration: Semester

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 & NUTRITION**

Credit: 1  
Grade: 9-12  
Prerequisite: None  
Duration: Semester

Food & Nutrition II moves beyond the basics to build more complex food-preparation skills. Students will use concepts learned in Food and Nutrition to develop a new understanding of how to utilize food for their health and enjoyment. Food science principles are introduced. Students will research and plan a meal that incorporates special dietary needs of family members. This course is recommended prior to taking World of Food or Culinary Food

#### **FOOD & NUTRITION II**

Credit: 1  
Grade: 9-12  
Prerequisite: Food and Nutrition  
Duration: Semester

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, timemanagement, 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.

#### **HUMAN RELATIONS**

Credit: 1  
Grade: 10-12  
Prerequisite: None  
Duration: Semester

<p>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. This class can be transcribed with WCTC and follows their curriculum.</p>	<p><b>INTERIOR DESIGN</b>  Credit: 1  Grade: 11-12  Prerequisite: None  Duration: Second Semester</p>
<p>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 while developing diversity in eating habits. Areas of study include seven international cultures (China, Japan, Italy, France, Germany, Mexico &amp; 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.</p>	<p><b>INTERNATIONAL CUISINE (FORMERLY: WORLD OF FOOD)</b>  Credit: 1  Grade: 11-12  Prerequisite: Food and Nutrition and highly recommend Advanced Food and Nutrition  Duration: First Semester</p>



# Career and Technical Education

## Health Science

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.

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

**CTE  
HEALTH SCIENCE**

DESCRIPTION	COURSE TITLE
<p>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 <a href="http://www.ems.gov/pdf/811077a.pdf">http://www.ems.gov/pdf/811077a.pdf</a> and the National EMS Scope of Practice document <a href="http://www.ems.gov/education/EMSScope.pdf">http://www.ems.gov/education/EMSScope.pdf</a>.</p> <p>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.</p>	<p><b>EMT-B</b>            Credit: 1.5 credits/semester            Grade: 12            Prerequisite: Health Occupations Or Medical Terminology &amp; Business Practices            Duration: Year            Class Period: Last Block  <b>REQUIRED:</b> Application process occurs spring of junior year.</p>
<p>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.</p>	<p><b>HEALTH OCCUPATIONS</b>            Credit: 1            Grade: 10-12            Prerequisite: None            Duration: First Semester</p>
<p>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.</p>	<p><b>HEALTH PRACTICUM 1 &amp; 2</b>            Credit: 3 (1.5 each semester)            Grade:12            Prerequisite: Health Occupations            Highly Recommended: Medical Terminology &amp; Business Practices (Business)            Duration: Year</p>

<p><b><u>Certified Nursing Assistant (CNA):</u></b> 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 (Certified Nursing Assistant) training at WCTC. Students must complete both Arrowhead's Medical Terminology &amp; 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 2 mandatory informational meetings: one held by Arrowhead and the other held by WCTC in January/February. WCTC and Arrowhead credits may be earned through this program.</p> <p><b><u>Pharmacy Technician:</u></b> 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</p>	<p><b>HEALTH YOUTH APPRENTICESHIP 1 &amp; 2 (NC)</b>  Credit: Up to 4 credits  Grade: 11-12  Prerequisite for CNA: Completion of the Medical Terminology &amp; 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.  Duration: 2 years  *Students must purchase uniform, class materials, and state certification test</p>
<p>acceptance into the program is contingent on the ability to secure an approved job. This is a one-year program, 2 credits.</p> <p><b><u>Dental Assistant:</u></b> 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.</p>	<p>Prerequisite for Pharmacy Technician and Dental Assistant: Completion of Health Occupations and Medical Terminology by end of junior year.</p>
<p>Medical Terminology &amp; 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 &amp; 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.</p>	<p><b>MEDICAL TERMINOLOGY AND BUSINESS PRACTICES</b>  Credit: 1  Grade: 10-12  Prerequisite: None  Duration: Second Semester</p>

# Career and Technical Education: Technology and Engineering

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.

Arrowhead offers the nationally accredited Project Lead the Way (PLTW), which includes three 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.)

9 <sup>th</sup> Grade	<ul style="list-style-type: none"> <li>• Introduction to Engineering &amp; Manufacturing (PLTW) 1 &amp; 2</li> <li>• Introduction to Engineering &amp; Manufacturing (PLTW) 1 &amp; 2 - <b>Female Only</b></li> </ul>		
10 <sup>th</sup> Grade	<b>Manufacturing and Engineering Courses</b>		
	<ul style="list-style-type: none"> <li>• Manufacturing &amp; Engineering with Materials 1 &amp; 2</li> <li>• Manufacturing &amp; Engineering with Materials 1 &amp; 2</li> <li>• Introduction to Engineering &amp; Manufacturing (PLTW) 1 &amp; 2 <b>Female Only</b></li> <li>• Engineering &amp; Mechanics (PLTW) 1 &amp; 2** (Principles of Engineering AND Physics/ AP Physics)</li> <li>• Civil Engineering &amp; Architecture (PLTW) 1 &amp; 2</li> <li>• Machining</li> </ul>		
11 <sup>th</sup> and 12 <sup>th</sup> Grade	<b>Manufacturing Courses</b>	<b>Engineering Courses (PLTW)</b>	<b>Automotive Courses</b>
	<ul style="list-style-type: none"> <li>• Metal Fabrication I</li> <li>• Metal Fabrication II**</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>	<ul style="list-style-type: none"> <li>• Civil Engineering &amp; Architecture (PLTW) 1 &amp; 2</li> <li>• Engineering &amp; Mechanics (PLTW) 1 &amp; 2** (Principles of Engineering AND Physics/ AP Physics)</li> <li>• Engineering Design &amp; Development (PLTW) 1 &amp; 2**</li> <li>• Technology &amp; Engineering Youth Apprenticeship 1 &amp; 2**</li> </ul>	<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 1 &amp; 2**</li> <li>• Technology &amp; Engineering Youth Apprenticeship 1 &amp; 2**</li> </ul>

**CTE  
TECHNOLOGY AND ENGINEERING**

<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
<p>Advanced Automotive Technology is for the student who has an interest in pursuing a higher level of automotive repair skills or an automotive career. Emphasis is placed on the practical application of knowledge and the development of skills required of automotive technicians. A major portion of the course involves advanced work with newer automotive technology. The career information phase of this course presents employment opportunities, post-high school automotive education, certification of technicians, and procedures in gaining employment.</p>	<p><b>ADVANCED AUTOMOTIVE TECHNOLOGY 1 &amp; 2</b> Credit: 2 Grade: 12 Prerequisite: 2 semesters of Autos or 1 semester Autos and Instructor's Approval Duration: Year This class offers Youth Apprenticeship options through Automotive Youth Educational Systems (AYES).</p>
<p>Automotive Technology I is the beginning of Automotive Mechanics for students preparing for this field as an occupation or gaining a higher level of automotive repair skill. This may <b>not</b> be taken with Consumer Auto. The course presents a series of jobs each student is required to complete, including brake servicing and checking front end alignment. Students will be given opportunities to perform under realistic shop conditions on actual automobiles. In order for students to gain a more realistic understanding of automotive suspension, the engine and necessary systems will also be reviewed.</p>	<p><b>AUTOMOTIVE TECHNOLOGY (I)</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester</p>
<p>Automotive Technology II (Previously Automotive Technology and Diagnostics) is designed to learn more about current and advanced technical systems used on late model vehicles. The units to be studied include electronic ignition systems, on-board computers, computer-controlled fuel injection, direct fuel injection, and emission control systems. Emphasis is placed on diagnosing, troubleshooting, and performing manufacturer's recommended service procedures.</p>	<p><b>AUTOMOTIVE TECHNOLOGY (II)</b> Credit: 1 Grade: 11-12 Prerequisite: Consumer Auto or Auto Technology (I) Duration: Semester</p>
<p>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 Certificate through the Woodwork Career Alliance by demonstrating knowledge of tools used in the woodworking industry.</p>	<p><b>CABINETMAKING 1 &amp; 2</b> Credit: 2 Grade: 12 Prerequisite: Woods Production I Duration: Year</p>

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** [\(link\)](#)

**CIVIL ENGINEERING & ARCHITECTURE 1 & 2 (PLTW)**  
 Credit: 2  
 Grade: 10-12  
 Prerequisite: None  
 Duration: Year

## CTE TECHNOLOGY AND ENGINEERING

### DESCRIPTION

### COURSE TITLE

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.

**CONSUMER AUTO**  
 Credit: 1  
 Grade: 11-12  
 Prerequisite: None  
 Duration: Semester (either)

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, survival shelters, 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 ENGR 220: Mechanics of Materials. The process for earning credits takes 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 & MECHANICS**  
 Students receive credit for:  
     Physics  
     Principles of Engineering (PLTW)  
 Credit: 4  
 Grade: 10-12  
 Prerequisite: Completion or concurrent enrollment in Biology.  
 Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II (AMS II)  
 Duration: Year

**CTE  
TECHNOLOGY AND ENGINEERING**

DESCRIPTION	COURSE TITLE
<p>Engineering Design &amp; Development (<b>EDD</b>) 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.</p> <p>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 207: Parametric Modeling. The process for earning credits takes place with the instructors during the first week of class.</p>	<p><b>ENGINEERING DESIGN &amp; DEVELOPMENT 1 &amp; 2 (PLTW)</b> Credit: 2 Grade: 11-12 Prerequisite: Engineering &amp; Mechanics OR 2 Technology and Engineering Courses, 1 of which can be concurrent. Duration: Year</p>
<p>Introduction to Engineering &amp; Manufacturing (<b>IEM</b>) 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 <u>ALL students</u> and is the recommended first course for all students interested in future Technology and Engineering Education courses.</p> <p>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 takes place with the instructors during the first week of class.</p>	<p><b>INTRODUCTION TO ENGINEERING &amp; MANUFACTURING 1 &amp; 2 (SC) (PLTW)</b> Credit: 2 Grade: 9-12 Prerequisite: None Duration: Year</p>
<p>Manufacturing &amp; 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.</p>	<p><b>MANUFACTURING &amp; ENGINEERING WITH MATERIALS 1 &amp; 2</b> Credit: 2 Grade: 10 Prerequisite: None Duration: Year</p>
<p>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.</p> <p><b>Potential for College Credit (Transcripted with WCTC)</b></p>	<p><b>METAL FABRICATION (I) 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: None Duration: Year</p>



**CTE  
TECHNOLOGY AND ENGINEERING**

DESCRIPTION	COURSE TITLE
<p>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.</p>	<p><b>METAL FABRICATION (II) 1 &amp; 2</b> Credit: 2 Grade: 12 Prerequisite: Metal Fabrication (I) Duration: Year</p>
<p>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 &amp; Die.</p>	<p><b>MACHINING 1 &amp; 2</b> Credit: 1 Grade: 10 -12 Prerequisite: None Duration: Year</p>
<p>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. <b>Potential for college credit</b></p> <p>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 ENGR 220: Mechanics of Materials. The process for earning credits takes place with the instructors during the first week of class.</p>	<p><b>PRINCIPLES OF ENGINEERING 1 &amp; 2 (PLTW)</b> To enroll in this course please <u>see Engineering and Mechanics</u>, this course is part of the Engineering Experience.</p>
<p>The Technology &amp; 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</p>	<p><b>TECHNOLOGY &amp; ENGINEERING YOUTH APPRENTICESHIP 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Enrolled in one or more concurrent Technology and Engineering program pathway class(es) Duration: Year Class Period: Schedule as an 11<sup>th</sup> hour (after school) with monthly check in by appointment.</p>

**CTE  
TECHNOLOGY AND ENGINEERING**

DESCRIPTION	COURSE TITLE
<p>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, Prerequisite: Completion of 1 of the shipping, receiving, invoicing, customer service, accounting, payroll, project following courses AND required management, maintaining equipment, and everything else it takes to run a business. Instructor's approval-based on student</p> <p>Students earn profit sharing, scholarships, and credit toward high school graduation. portfolio AND interview Students who wish to be hired or accepted into the Warhawk Manufacturing program • Engineering Mechanics must apply and have completed prerequisites to be considered. This everyday block • Machining I course is a way to foster a rich in-house work experience at Arrowhead. • Metal Fabrication I</p>	<p><b>WARHAWK MANUFACTURING 1 &amp; 2</b></p> <p>Credit: 4</p> <ul style="list-style-type: none"> <li>• Woods Production II</li> <li>• Business Experiences (courses) Preferred</li> <li>• Student Portfolio and Interview</li> </ul> <p>Duration: Year Class Period: Every Day Block (84)</p>
<p>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. Grade: 11-12 Students will learn how to read technical drawings and bring them to life using Prerequisite: None industrial machinery and modern woodworking techniques. There is a strong Duration: Semester (either) emphasis placed on safety, measuring, joinery, quality control, and computer-aided machining.</p>	<p><b>WOODS PRODUCTION I</b></p> <p>Credit: 1</p>
<p>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 Credit: 1 application of advanced woodworking processes. Students will continue to hone their Grade: 11-12 skills and will construct a cabinet which contains a door and drawer. Students will Prerequisite: Woods Production I learn the methods of installing door hinges and drawer slides. This is in an effort to Duration: Semester (either) 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.</p>	<p><b>WOODS PRODUCTION II</b></p>

# Computer Science

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.**

COMPUTER SCIENCE	
DESCRIPTION	COURSE TITLE
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.	<b>*AP COMPUTER SCIENCE A (NC)</b> Credit: 2 Grade: 10 - 12 Prerequisite: 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 the Arrowhead Computer Science Assessment) are required. Duration: Year
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.	<b>*COMPUTER SCIENCE METHODS (NC)</b> Credit: 1 Grade: 10 - 12 Prerequisite: A B 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 problemsolving skills necessary for the course. Duration: Semester

# English

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.

9 <sup>th</sup> Grade	English 9 1 & 2 English 9 Honors 1 & 2
10 <sup>th</sup> Grade	British Literature English 10 1 & 2 Honors English 10 1 & 2
11 <sup>th</sup> Grade	English 11 1 & 2 AP Language & Composition 1 & 2
11 <sup>th</sup> & 12 <sup>th</sup> Grade	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 (Pilot) Modern Literature Organizational Communication World Literature

## ENGLISH

### DESCRIPTION

### COURSE TITLE

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 COMPOSITION**

Credit: 1 credit

Grade: 11-12

Prerequisite: Composition

Duration: Semester

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 LANGUAGE & COMPOSITION 1 & 2 (SC & NC)**

Credit: 2

Grade: 11-12

Prerequisite: English 10 Honors or Junior Standing, Pre ACT-score above a 22 in reading is a strong predictor of success. Duration: Year

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 PLACEMENT ENGLISH LITERATURE & COMPOSITION 1 & 2**

Credit: 2

Grade: 12

Prerequisite: None

RECOMMENDATION: British

Literature or World Literature or AP Language during the Junior year. Pre ACT-score above a 22 in reading is a strong predictor of success.

Duration: Year

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.	<b>*ADVANCED SPEECH</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
--	--

ENGLISH	
DESCRIPTION	COURSE TITLE
British Literature is a survey of the development of the language and literature of Great Britain. Major works include Beowulf, Geoffrey Chaucer ( <i>Canterbury Tales</i> ), Malory ( <i>The King Arthur Legend</i> ), 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.	<b>*BRITISH LITERATURE (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: none Duration: Semester
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.	<b>*COMPOSITION</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
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.	<b>*CREATIVE WRITING</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
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.	<b>*ENGLISH 9 1 &amp; 2</b> Credit: 2 Grade: 9 Prerequisite: None Duration: Year

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.	<b>*ENGLISH 10 1 &amp; 2</b> Credit: 2 Grade: 10 Prerequisite: None Duration: Year
English 11 students will read, respond to, and reflect upon literary and informational texts as they explore facets of the American identity. 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.	<b>*ENGLISH 11 1 &amp; 2</b> Credit: 2 Grade: 11 Prerequisite: None Duration: Year

<b>ENGLISH</b>  <b>DESCRIPTION</b>		<b>COURSE TITLE</b>
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.		<b>*ENGLISH 9 HONORS 1 &amp; 2</b> Credit: 2 Grade: 9 Prerequisite: Pre- ACT test is required. A 22 in reading and an 18 in English are strong predictors of success in English 9 Honors Duration: Year
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.		<b>*ENGLISH 10 HONORS 1 &amp; 2</b> Credit: 2 Grade: 10 Prerequisites: English 9 Honors or the following criteria Pre ACT- Reading Score of 22 Pre ACT-English Score of 18 or a written recommendation from English 9 teacher. Duration: Year



	<b>LITERACY THROUGH FILM (Check NCAA eligibility for course)</b> <b>Credit: 1</b> <b>Grade: 9-12</b> <b>Prerequisite – None</b>
<p>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.</p>	<b>*MODERN LITERATURE</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
<p>Organizational Communication is a presentation-driven course where students learn to analyze audience, mode, and visual design of messages. 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.</p>	<b>*ORGANIZATIONAL COMMUNICATION</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
<p>In World Literature, students develop a global mindset through the study of texts from a variety of geographic regions, cultures, and time periods. Students work through course content by reading an anchor text and use supplemental materials such as short stories, non-fiction excerpts, and other media to inform their study. Students' mastery of each unit's content and skills will be evaluated through formative and summative assessments including daily in-class activities, mini-projects, Socratic Seminars, unit tests, and weekly online discussions.</p>	<b>*WORLD LITERATURE</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester

## General Electives

9 <sup>th</sup> Grade	The Leader's Mindset
10 <sup>th</sup> , 11 <sup>th</sup> , & 12 <sup>th</sup> Grade	#Acting The Leader's Mindset Journalism Leadership II

11 <sup>th</sup> & 12 <sup>th</sup> Grade	College Strategies Computer Science Coaching & Officiating Global Capstone Global Seminar Journalism Yearbook 1 & 2
---	--

#Acting is considered a Fine Arts credit

GENERAL ELECTIVES	
DESCRIPTION	COURSE TITLE
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.	<b>ACTING (NC)</b> Credit: 1 (FINE ARTS) Grade: 10-12 Prerequisite: None Duration: Semester (either)
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.	<b>COACHING &amp; OFFICIATING</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester (either)
GENERAL ELECTIVES	
DESCRIPTION	COURSE TITLE

<p>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. <u>This course does not count as an English credit toward graduation nor is it accepted as a college preparatory course.</u></p>	<p><b>COLLEGE STRATEGIES</b>  Credit: 1  Grade: 11-12  Prerequisite: None  Duration: Semester (either)</p>
<p>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.</p>	<p><b>JOURNALISM 1 &amp; 2 (NC)</b>  Credit: 2  Grade: 10-12  Prerequisite: None  Duration: Year</p>
<p>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.</p>	<p><b>LEADERSHIP II</b>  Credit: 1  Grade: 10-12  Prerequisite: The Leader's Mindset (teacher recommendation)  Duration: Semester (either)</p>
<p>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.</p>	<p><b>THE LEADER'S MINDSET</b>  Credit: 1  Grade 9-12  Prerequisite: None  Duration: Semester</p>
<p>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.</p>	<p><b>YEARBOOK 1 &amp; 2</b>  Credit: 1  Grade: 11-12  Prerequisite: Application for enrollment is required. Please see Mrs. Danay for an application. Duration: Year</p>

# Global Experience

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

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 four 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

Grade	Available Courses
9th Required: Social Studies 9 OR AP Human Geography AND 2 credits in one World Language	Possible Enrollment in more than one World Language (2 credits)
10th Required: 2 credits in level 2 of the <u>same</u> 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)
11th Required: Junior Global Experience Seminar (2 credits) Description on the next page	The list of available courses for Juniors and Seniors is found in the table on the next page. Juniors enrolled in the AHS Global Seminar and Seniors enrolled in Global Capstone must also enroll in courses listed as "Interdisciplinary" in the next table. 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.
12th Required: Senior Global Capstone (1 credit) Description on the next page	

# 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

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

## 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)

## Science

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

## World Languages

Any level of a second World Language (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.*

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 SEMINAR

Credit: 2

Grade: 11

\*Prerequisites:

1. Minimum of two consecutive years of one high school level world language
2. Concurrent enrollment in third year of world language
3. Minimum grade of B- in all prerequisite courses for Global Certificate

Duration: Year

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.

## **GLOBAL CAPSTONE**

Credit: 1

Grade: 12

Prerequisites:

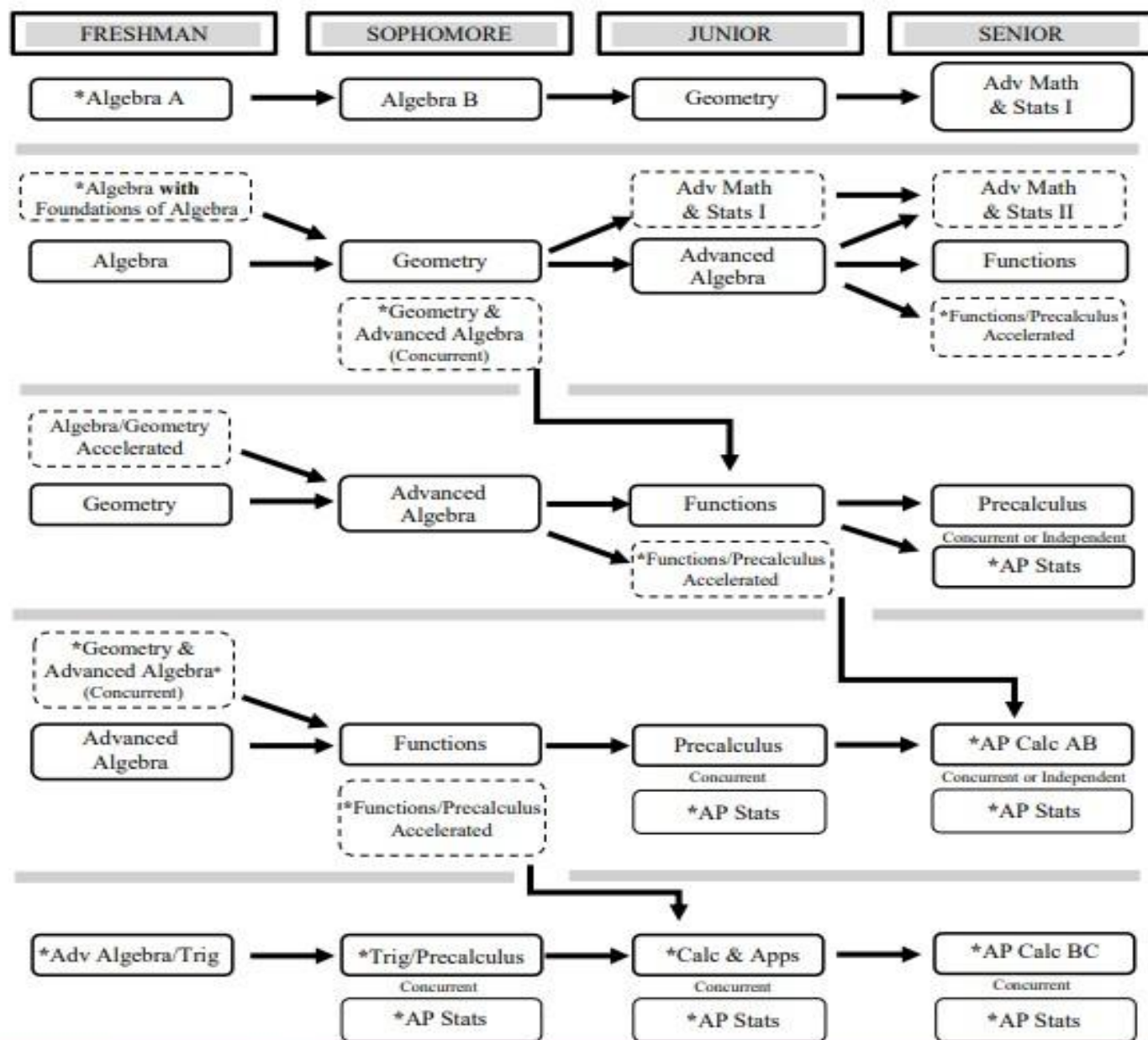
1. Global Seminar
2. Minimum of three consecutive years of one high school level world language
3. Concurrent enrollment in fourth year or higher of world language
4. Minimum grade of B- (80%) in all prerequisite courses for Global Certificate Duration: First Semester only

# Mathematics

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 with “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. Courses requiring a prerequisite grade and/or a teacher recommendation are marked by an asterisk.

A scientific calculator is required for each mathematics course.

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



## MATHEMATICS

DESCRIPTION

COURSE TITLE



<p>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.</p> <p>*** Please note- Students who earned a C 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.</p>	<p><b>*ADVANCED ALGEBRA 1 &amp; 2</b>  Credit: 2  Grade: 9 - 12  Prerequisite: Incoming freshmen must successfully complete the District Algebra Assessment.  Duration: Year</p>
<p>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.</p>	<p><b>*ADVANCED ALGEBRA/TRIGONOMETRY 1 &amp; 2</b>  Credit: 2  Grade: 9  Prerequisite: Incoming freshmen must successfully complete the District Algebra Assessment and have a teacher recommendation. An A in the previous course is highly recommended (High School Geometry).  Duration: Year</p>
<p>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.</p>	<p><b>*ADVANCED MATH AND STATISTICS I 1 &amp; 2</b>  Credit: 2  Grade: 11-12  Prerequisite: Successful Completion of Geometry  Duration: Year</p>
<p>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.</p>	<p><b>*ADVANCED MATH AND STATISTICS II 1 &amp; 2</b>  Credit: 2  Grade: 11-12  Prerequisite: Successful Completion of AMS I  Duration: Year</p>

## MATHEMATICS

DESCRIPTION	COURSE TITLE
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.	<b>*ADVANCED PLACEMENT CALCULUS AB 1 &amp; 2</b> Credit: 2 Grade: 12 Prerequisite: B or better in Functions/Pre-Calculus Accelerated, Precalculus and Discrete Math or B or better in Calculus and Applications and teacher recommendation. Duration: Year
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.	<b>*ADVANCED PLACEMENT CALCULUS BC 1 &amp; 2</b> Credit: 2 Grade: 12 Prerequisite: B or better in Calculus and Applications and teacher recommendation. Duration: Year
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.	<b>*ADVANCED PLACEMENT STATISTICS 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: 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 Duration: Year
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.	<b>ALGEBRA A (NOT ON COURSE SELECTION SHEET)</b> Credit:2 Grade:9 Prerequisite: Completion of Transitional Math (Pre-Algebra) and teacher recommendation Duration: Year

## MATHEMATICS

### DESCRIPTION

### COURSE TITLE

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 1 & 2**

Credit: 2  
Grade: 9-12  
Prerequisite: C or better grade in Transitional Math/Pre-Algebra (in 8<sup>th</sup> grade)  
Duration: Year

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

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

Credit: 2  
Grade: 10-12  
Prerequisite: Successful Completion of Algebra A  
Duration: Year

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.

#### **\*ALGEBRA /GEOMETRY ACCELERATED**

Credit: 4  
Grade: 9-10  
Prerequisite: Students must successfully complete the district Algebra Assessment  
Duration: Year

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.

#### **\*CALCULUS AND APPLICATIONS 1 & 2**

Credit: 2  
Grade: 11  
Prerequisite: B or better in Trigonometry/Precalculus or Functions/Precalculus Accelerated  
Duration: Year

Foundations of Algebra is an elective course offered in the Arrowhead Math Department. It is designed for students who are taking Algebra in 9<sup>th</sup> grade and have received a recommendation for additional learning support at the high school level. The Foundations of Algebra curriculum targets the key concepts of algebraic thinking, place value, computational fluency, concepts of fractions, measurement, and data. Students will earn an elective pass/fail credit for each semester of the course and significant support for success in the Algebra course.

#### **FOUNDATIONS OF ALGEBRA**

Credit: 2  
Grade: 9  
Prerequisite: Concurrent enrollment in Algebra 1 & 2 and teacher recommendation  
Duration: Year

<p>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.</p>	<p><b>*FUNCTIONS, STATISTICS, AND TRIGONOMETRY 1 &amp; 2</b>            Credit: 2            Grade: 10-12            Prerequisite: Successful completion of Advanced Math &amp; Stats II or Advanced Algebra            Duration: Year</p>
<p>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.</p>	<p><b>*FUNCTIONS/PRECALCULUS ACCELERATED 1 &amp; 2 (NC)</b>            Credit: 4            Grade: 10, 11,12            Prerequisite: Completion of Advanced Algebra with a B (highly recommended) and teacher recommendation.            Duration: Year</p>
<p>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.</p>	<p><b>*GEOMETRY 1 &amp; 2</b>            Credit: 2            Grade: 9-12            Prerequisite: Incoming freshmen must successfully complete the District Algebra Assessment or take concurrently with Algebra. Current students must have successful completion of Algebra or Algebra B.            Duration: Year</p>
<p>Pre-calculus and Discrete Mathematics emphasize the content necessary to be successful in Calculus and Computer Science. A graphing calculator is required.</p>	<p><b>*PRECALCULUS AND DISCRETE MATHEMATICS 1 &amp; 2</b>            Credit: 2            Grade: 11-12            Prerequisite: Successful Completion of Functions, Statistics, and Trigonometry.            Duration: Year</p>

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.

**\*TRIGONOMETRY / PRE-CALCULUS  
1 & 2**

Credit: 2  
Grade: 10  
Prerequisite: B or better in  
Advanced Algebra/Trigonometry  
Duration: Year

## Music

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.

### INSTRUMENTAL MUSIC

The instrumental music program is open to students who play wind, string or percussion instruments. It is expected that all students choosing to be a part of the instrumental music program will participate in an audition process each spring semester in order to allow for proper placement for all of the ensembles for the coming school year. Students with no previous instrumental experience may enroll only with the consent of the instrumental music director. All members of performing ensembles will be required to attend all performances throughout the school year. Members of Concert Band, Symphonic Band, Jazz Ensemble, and Wind Ensemble are required to participate in three scheduled Pep Band performances/games for their second semester performance grade. \*All music classes are yearlong

### 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. The 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. \*All music classes are year-long

### 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.

Grade	Choral Music	Instrumental Music	General Music
9 <sup>th</sup> Grade	Baritone Chorale (boys) Treble Choir (girls) Music Foundations	Concert Band Jazz Ensemble– Audition Symphonic Band South Campus - Audition Wind Ensemble – Audition Music Foundations	Music Foundations Music Production Music Through Film (Pilot 25-26)

10 <sup>th</sup> Grade	Baritone Chorale (boys) Broadway Company—Audition South Select—Audition Treble Choir (girls) Music Foundations	Concert Band Jazz Ensemble—Audition Music Foundations Symphonic Band South Campus—Audition Wind Ensemble—Audition	Music Foundations Music Production
11 <sup>th</sup> & 12 <sup>th</sup> Grade	North Concert Choir—Audition Broadway Company—Audition Music Foundations	Concert Band Jazz Ensemble- Audition Music Foundations Symphonic Band North Campus - Audition Wind Ensemble - Audition	Music Foundations Music Production

MUSIC	
DESCRIPTION	COURSE TITLE
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.	<b>BARITONE CHORALE 1 &amp; 2</b> Credit: 2 Grade: 9-10 boys Prerequisite: None Duration: Year
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.	<b>BROADWAY COMPANY 1 &amp; 2 (NC)</b> Credit: 2 Grade: 10-12 Prerequisite: Current membership in an auditioned choral ensemble and a vocal/dance audition. Duration: Year
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 three scheduled Pep Band games for their second semester performance grade.	<b>CONCERT BAND 1 &amp; 2</b> Credit: 2 Grade: 9-11 Prerequisite: None Duration: Year

<p>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.</p>	<p><b>MUSIC FOUNDATIONS</b>  Credit: 2  Grade: 9-12  Prerequisite: None  Duration: Year</p>
<p>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.</p>	<p><b>MUSIC PRODUCTION</b>  Credit: 1  Grade: 9-12  Prerequisite: None  Duration: Semester</p>
<p>The focus of the class is to foster understanding of specific elements of music-starting with critical listening/analysis of how music tells a story. Emphasis is on analysis of musical elements and composition (General music standards). Composer technique and orchestration-music choices are emphasized.</p>	<p><b>MUSIC THROUGH FILM</b>  Credit: 1  Prerequisite: None  Duration; Semester</p>



## MUSIC

### DESCRIPTION

### COURSE TITLE

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.

#### **NORTH CONCERT CHOIR 1 & 2**

Credit: 2  
Grade: 11-12  
Prerequisite: Audition  
Duration: Year

Jazz Ensemble is an auditioned, skills-oriented class composed 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 three scheduled Pep Band games for their second semester performance grade.

#### **JAZZ ENSEMBLE 1 & 2 (NC)**

Credit: 2  
Grade: 9-12  
Prerequisite: Audition  
Duration: Year

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.

#### **SOUTH SELECT ENSEMBLE 1 & 2**

Credit: 2  
Grade: 10  
Prerequisite: Must have completed one year in either Treble Choir or Baritone Chorale. Audition  
Duration: Year

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 three scheduled Pep Band games for their second semester performance grade.

#### **SYMPHONIC BAND 1 & 2 (SC/NC)**

Credit: 2  
Grade: 9-12  
Prerequisite: Audition  
Duration: Year

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.

### **TREBLE CHOIR 1 & 2**

Credit: 2

Grade: 9-10 girls

Prerequisite: None

Duration: Year

## **MUSIC**

### **DESCRIPTION**

### **COURSE TITLE**

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 three scheduled Pep Band games for their second semester performance grade.

### **WIND ENSEMBLE 1 & 2 (NC)**

Credit: 2

Grade: 9-12

Prerequisite: Audition

Duration: Year

# Physical Education and Health

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 (i.e., no two Performance Training classes, no two identical summer school classes, no two Team PE 9).

## 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

Grade	Available Courses
9 <sup>th</sup> Grade	Individual Physical Education Performance Training (9/10) Team Physical Education Physical Education AM Health
10 <sup>th</sup> Grade	Performance Training (9/10) Physical Education 10 Physical Education AM Health

11 <sup>th</sup> & 12 <sup>th</sup> Grade	Adventure Physical Education Aerobic Fitness for Life Coaching and Officiating (See General Electives) Performance Training (11/12) Physical Education 11/12 Physical Education A.M. Peer Mentor PE
---	---

## PHYSICAL EDUCATION AND HEALTH

DESCRIPTION	COURSE TITLE
<p>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.</p> <p>*See Summer School Guide</p> <p>*Students interested in this PE class should have a working bike they can ride outdoors.</p>	<p><b>ADVENTURE PHYSICAL EDUCATION</b></p> <p>Credit: 1</p> <p>Grade: 11-12</p> <p>Prerequisite: None</p> <p>Duration: Semester</p>
<p>Students selecting Aerobic Fitness for Life can expect a dynamic class emphasizing cardiovascular fitness. Students interested in taking this class should be able to provide a working bike from home that they can ride as one of the outdoor activities. In addition, students will participate in a variety of outdoor games-capture the flag, kickball, ultimate frisbee, etc., as well as inline skating, step aerobics, water aerobics, yoga, ice skating, and indoor games. The class also provides one day snapshots of Zumba, Pilates, and Taekwondo.</p>	<p><b>AEROBIC FITNESS FOR LIFE</b></p> <p>Credit: 1</p> <p>Grade: 11-12</p> <p>Prerequisite: None</p> <p>Duration: Semester</p>
<p>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. <b>This course will count as a GENERAL ELECTIVE. It does not count toward the graduation requirements for Physical Education.</b></p>	<p><b>COACHING &amp; OFFICIATING (NC)</b></p> <p>Credit: 1</p> <p>Grade: 11-12</p> <p>Prerequisite: None</p> <p>Duration: Semester (either)</p>

<p>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.</p> <p>*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:</p> <ul style="list-style-type: none"> <li>a. Self-esteem, responsible decision-making and personal responsibility b. Interpersonal relationships</li> <li>c. Discouragement of adolescent sexual activity</li> <li>d. Family life and skills required of a parent</li> <li>e. Human sexuality, reproduction, contraception, HIV/AIDS, prenatal development, childbirth, adoption, available prenatal and postnatal support, and male responsibility</li> <li>f. Sex stereotypes and provocative behaviors</li> </ul> <p>*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</p>	<p><b>HEALTH</b> Credit: 1 Grade: 9-10 Prerequisite: None Duration: Semester</p>
---	--

<b>PHYSICAL EDUCATION AND HEALTH</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
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.	<p><b>INDIVIDUAL PHYSICAL EDUCATION</b> Credit: 1 Grade: 9 Prerequisite: None Duration: Semester</p>
<p>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.</p> <p>APPLICATION REQUIRED (See counselor)</p>	<p><b>PEER MENTOR PHYSICAL EDUCATION</b> Credit: 1 Grade: 11 -12 Prerequisite: None Duration: Semester</p>
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.	<p><b>PERFORMANCE TRAINING 9/10 (NC)</b> Credit: 1 Grade: 9-10 Prerequisite: None Duration: Semester</p>

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.	<b>PERFORMANCE TRAINING 11/12 (NC)</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
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.	<b>PHYSICAL EDUCATION ZERO HOUR (NC)</b> Credit: 1 Grade: 9-12 Prerequisite: None Duration: First Semester Class Period: Daily (40)
Physical Education 10 class concentrates on activities students can pursue for a lifetime. Activities may include tennis, water games, skating, volleyball, fitness, badminton, basketball, eclipse ball, outdoor and indoor games.	<b>PHYSICAL EDUCATION 10</b> Credit: 1 Grade: 10 Prerequisite: None Duration: Semester (either)
<div> <div>DESCRIPTION</div> <div>COURSE TITLE</div> </div> <b>PHYSICAL EDUCATION AND HEALTH</b>	
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, swimming, badminton, volleyball, ice skating, ice bocce, and fitness.	<b>PHYSICAL EDUCATION 11/12</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester Class Period: Alternate Day
Team Physical Education utilizes team games such as volleyball, soccer, curling, water games, ice games, football, softball, and others. Teamwork, fair play, and fitness are the focus in this offering.	<b>TEAM PHYSICAL EDUCATION</b> Credit: 1 Grade: 9 Prerequisite: None Duration: Semester

# Science

Courses in the Science Department ask students to investigate and explain the world around them. The focus is on the use of evidence to develop models that can be used to explain the natural and manmade worlds. 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.

9 <sup>th</sup> Grade	Science 9 1 & 2 Science 9 / Biology Accelerated Block 1 & 2
10 <sup>th</sup> Grade	Biology / Biology Accelerated Chemistry / Chemistry Accelerated 1 & 2 Physics / A.P. Physics 1 1 & 2 Engineering and Mechanics 1 & 2
11 <sup>th</sup> and 12 <sup>th</sup> Grade	<div> A.P. Biology 1 &amp; 2  A.P. Chemistry 1 &amp; 2  A.P. Physics I 1 &amp; 2  A.P. Physics II 1 &amp; 2  A.P. Physics C 1 &amp; 2  Anatomy &amp; Physiology  Biotechnology  Chemistry / Chemistry Accelerated 1 &amp; 2  Chemistry for the Health Sciences  Engineering &amp; Mechanics 1 &amp; 2 </div> <div> Environmental Biology - Land  Environmental Biology –Atmosphere &amp; Aquatics  Landscape Ecology  Physics  STS- Space  STS- Forensic Science  Zoology </div>

Regardless of which 9<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> grade year by taking Biology along with Chemistry or Physics.

The Science 9 / 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.

## SCIENCE

DESCRIPTION	COURSE TITLE
<p>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. Collegelevel 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 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.</p>	<p><b>*ADVANCED PLACEMENT BIOLOGY 1 &amp; 2</b>            Credit: 2 (Life Science)            Grade: 11-12            Prerequisite: B or better in Biology or Biology Accelerated and a B or better in Chemistry, Functions (concurrent or beyond)            Duration: Year</p>
<p>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 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester</p>	<p><b>*ADVANCED PLACEMENT CHEMISTRY 1 &amp; 2</b>            Credit: 2 (Physical Science)            Grade: 11-12            Prerequisite: B or better in Chemistry.            Functions (concurrent or beyond)            Duration: Year</p>
<p>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 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.</p>	<p><b>*ADVANCED PLACEMENT PHYSICS I 1 &amp; 2</b>            Credit: 2 (Physical Science)            Grade: 10-12            Prerequisite: 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.            Duration: Year</p>

Advanced Placement Physics II is equivalent to the second semester of an 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; ~~fluid statics and dynamics~~; 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 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.

**\*ADVANCED PLACEMENT PHYSICS II 1 & 2**

Credit: 2 (Physical Science)

Grade: 11-12

Prerequisite: A or B in Advanced Algebra and concurrent enrollment in Functions or beyond. A or B in Physics or AP Physics 1

Duration: Year

**SCIENCE**

**DESCRIPTION**

**COURSE TITLE**

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 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.

**\*ADVANCED PLACEMENT PHYSICS C 1 & 2**

Credit: 2 (Physical Science)

Grade: 11-12

Prerequisite: 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)

Duration: Year

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.

**\*ANATOMY & PHYSIOLOGY**

Credit: 1 (Life Science)

Grade: 11-12

Prerequisite: Successful completion of Biology or Biology Accelerated

Duration: Semester

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 and apply them to biological processes and systems.

**\*BIOLOGY 1 & 2**

Credit: 2 (Life Science)

Grade: 10

Prerequisite: None

Duration: Year

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 Honors are concurrently enrolled in a North Campus science course.

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

## SCIENCE

DESCRIPTION	COURSE TITLE
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.	<b>BIOTECHNOLOGY</b> Credit: 1 (Life or Physical) Grade: 11-12 Prerequisite: A or B in Biology or Biology Accelerated or consent of instructor Duration: Semester
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 1 <sup>st</sup> semester to continue the course in 2 <sup>nd</sup> semester.	<b>*CHEMISTRY 1 &amp; 2 (NC)</b> Credit: 2 (Physical Science) Grade: 10-12 Prerequisite: C- or better in previous Science course. Concurrent enrollment in Advanced Algebra or Advanced Math and Stats II or beyond. Duration: Year

<p>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 &amp; bases. Students must earn a passing grade in 1<sup>st</sup> semester to continue the course in 2<sup>nd</sup> semester.</p>	<p><b>*CHEMISTRY ACCELERATED 1 &amp; 2 (NC)</b>            Credit: 2 (Physical Science)            Grade: 10-12            Prerequisite: 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. Duration: Year</p>
<p>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.</p>	<p><b>CHEMISTRY FOR THE HEALTH SCIENCES</b>            Credit: 1 (Life or Physical)            Grade: 11-12            Prerequisite: Successful completion of Biology and Chemistry.            Duration: Semester</p>

SCIENCE	
DESCRIPTION	COURSE TITLE
<p>Engineering &amp; 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, survival shelters, bridge/truss designs, robotics and programming, and more. Students who enroll in Engineering &amp; Mechanics are not required to continue within the Engineering Experience. This course will serve as excellent preparation for the Capstone Experience, Engineering Design &amp; Development.</p> <p><b>Potential for college credit <a href="#">(link)</a></b>            We offer a dual credit option through the University of Wisconsin – Green Bay (CCHS). 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 ENGR 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 1 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.</p>	<p><b>*ENGINEERING &amp; MECHANICS (PLTW)</b>            Students receive credit for:                Physics                Principles of Engineering (PLTW)            Credit: 4 (2 Physical Science)            Grade: 10-12            Prerequisite: 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.            Duration: Year</p>

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.	<b>*ENVIRONMENTAL BIOLOGY – ATMOSPHERE AND AQUATICS</b> Credit: 1 (Life Science) Grade: 11-12 Prerequisite: Biology or Biology Accelerated Duration: Semester
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.	<b>*ENVIRONMENTAL BIOLOGY – LAND</b> Credit: 1 (Life Science) Grade: 11-12 Prerequisite: Biology or Biology Accelerated Duration: Semester
Landscape Ecology is an advanced course focusing on native ecological relationships. We utilize frequent lab activities to study plant anatomy and physiology, plant-animal interactions, and energy flow/nutrient cycles within native ecosystems. The course emphasizes hands-on activities and includes a plethora of readings on topics of interest. Much of the second half of the course involves planting and growing native plants and vegetable plants in the North Campus greenhouse.	<b>LANDSCAPE ECOLOGY</b> Credit: 1 (Life Science) Grade: 11-12 Prerequisite: Successful completion of Biology or Biology Accelerated Duration: Semester

SCIENCE	
DESCRIPTION	COURSE TITLE
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 1 <sup>st</sup> semester to continue the course in 2 <sup>nd</sup> semester.	<b>*PHYSICS 1 &amp; 2</b> Credit: 2 (Physical Science) Grade: 10-12 Prerequisite: C- or better in the 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. Duration: Year

<p>The Science 9 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.</p>	<p><b>*SCIENCE 9 1 &amp; 2</b>            Credit: 2 (Physical Science)            Grade: 9            Prerequisite: None            Duration: Year</p>
<p>The Science 9 / Biology Accelerated Block is an everyday block course offered to strongly motivated, interested and highly capable science students. The course allows 9<sup>th</sup> grade students to complete Science 9 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.</p>	<p><b>*SCIENCE 9 / BIOLOGY ACCELERATED BLOCK</b>            Credit: 4 (Life and Physical)            Grade: 9            Prerequisite: Geometry or beyond            8<sup>th</sup> Grade Pre ACT-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            Duration: Year</p>
<p>Science, Technology &amp; Society (STS) – Forensic Science will provide opportunities for students to study science through problem-solving activities. Although this is <u>not a college preparatory course</u>, students tend to enjoy learning about science using this interactive, hands-on approach. Students will learn aspects of forensic science largely focused upon studies related to blood spatter, fingerprints, impressions, and crime scene analysis.</p>	<p><b>SCIENCE, TECHNOLOGY &amp; SOCIETY (STS)- FORENSIC SCIENCE</b>            Credit: 1 (Physical Science)            Grade: 11-12            Prerequisite: None            Duration: Semester</p>

SCIENCE	
DESCRIPTION	COURSE TITLE
<p>Science, Technology &amp; Society (STS) – Space will provide opportunities for students to study science through problem-solving activities. Although this is <u>not a college preparatory course</u>, students tend to enjoy learning about science using this interactive, hands-on approach. Students will learn basic principles of space throughout a unit culminating in model rocket building. Furthermore, general engineering concepts are addressed while designing, building and testing a balsa wood structure.</p>	<p><b>SCIENCE, TECHNOLOGY &amp; SOCIETY (STS) - SPACE</b>            Credit: 1 (Physical Science)            Grade: 11-12            Prerequisite: None            Duration: Semester</p>



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.

**\*ZOOLOGY**

Credit: 1 (Life Science)

Grade: 11-12

Prerequisite: Successful completion of Biology or Biology Accelerated

Duration: Semester

## Social Studies

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.

9 <sup>th</sup> Grade	A.P. Human Geography 1 & 2 Social Studies 9 1 & 2
-----------------------	--

10 <sup>th</sup> Grade	A.P. European History 1 & 2 A.P Government & Politics 1 & 2 Economics Global Relations History of Western Civilization 1 & 2 Political Science U.S. History 1 & 2
11 <sup>th</sup> and 12 <sup>th</sup> Grade	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 Modern American History Political Science Psychology Sociology U.S. History 1 & 2

SOCIAL STUDIES	
DESCRIPTION	COURSE TITLE
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.	<b>*ADVANCED PLACEMENT EUROPEAN HISTORY 1 &amp; 2 (NC)</b> Credit: 2 Grade: 10-12 Prerequisite: None Duration: Year

<p>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.</p>	<p><b>*ADVANCED PLACEMENT HUMAN GEOGRAPHY 1 &amp; 2</b>  Credit: 2  Grade: 9  Prerequisite: Pre ACT-is required. A 22 in reading and/or a Lexile score of 1300 is a strong predictor of success.  Duration: Year</p>
<p>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.</p>	<p><b>*ADVANCED PLACEMENT MACROECONOMICS 1 &amp; 2</b>  Credit: 2  Grade:11-12  Prerequisite: None  Duration: Year</p>
<p>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.</p>	<p><b>*ADVANCED PLACEMENT PSYCHOLOGY 1 &amp; 2</b>  Credit: 2  Grade: 11-12  Prerequisite: None  Duration: Year</p>

<b>DESCRIPTION</b>		<b>COURSE TITLE</b>
<b>SOCIAL STUDIES</b>		

<p>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.</p>	<p><b>*ADVANCED PLACEMENT U.S. GOVERNMENT &amp; POLITICS 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: None Duration: Year</p>
<p>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</p>	<p><b>*ADVANCED PLACEMENT U.S. HISTORY 1 &amp; 2</b> Credit: 2 Grade:11-12 Prerequisite: None Duration: Year</p>
<p>American 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.</p>	<p><b>*AMERICAN DOMESTIC AFFAIRS</b> Credit: 1 Grade:11-12 Prerequisite: None Duration: Semester</p>
<p>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.</p>	<p><b>*AMERICAN FOREIGN AFFAIRS</b> Credit: 1 Grade:11-12 Prerequisite: None Duration: Semester</p>
<p>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.</p>	<p><b>*ECONOMICS (NC)</b> Credit: 1 Grade:10-12 Prerequisite: None Duration: Semester</p>

## SOCIAL STUDIES

DESCRIPTION	COURSE TITLE
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.	<b>*GLOBAL RELATIONS (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: None Duration: Semester
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.	<b>*HISTORY OF WESTERN CIVILIZATION 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: None Duration: Year
Modern American History is a 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.	<b>MODERN AMERICAN HISTORY</b> Credit: 1 Grade 11-12 Prerequisite: U.S. History 1 & 2 Duration: Semester
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.	<b>*POLITICAL SCIENCE (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: None Duration: Semester
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.	<b>*PSYCHOLOGY</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester

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 including physical, political, economic, cultural geography.	<b>*SOCIAL STUDIES 9 1 &amp; 2</b> Credit: 2 Grade: 9 Prerequisite: None Duration: Year
<div>SOCIAL STUDIES</div> <div>DESCRIPTIONCOURSE TITLE</div>	
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. Note-taking and research projects are required. 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. Guest speakers are invited to help students understand the reality of these topics.	<b>*SOCIOLOGY</b> Credit: 1 Grade: 11-12 Prerequisite: None Duration: Semester
U. S. History is a survey course investigating the political, economic, and cultural development of the United States beginning with the Civil War Era. <b>U.S. History is required for graduation from Arrowhead.</b> Students will engage in research, writing, reading and historical document analysis.	<b>*U.S. HISTORY 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: None Duration: Year

# Visual Arts

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.

GRADE	2d FINE ART PATHWAY	DIGITAL DESIGN PATHWAY	3d FINE ART PATHWAY
9th 1st semester	2D DESIGN PREREQUISITE FOR ALL OTHER 2d COURSES	ADOBE DESIGN 1 PREREQUISITE FOR ALL DIGITAL DESIGN COURSES	3D DESIGN PREREQUISITE FOR ALL OTHER 3d COURSES
9th 2nd semester	DRAWING SECOND SEMESTER ONLY	VIDEO & ANIMATION SECOND SEMESTER ONLY PHOTOGRAPHY SECOND SEMESTER ONLY	CERAMICS SECOND SEMESTER ONLY
10th	2D DESIGN PREREQUISITE FOR ALL OTHER 2d COURSES DRAWING PAINTING HELD AT NORTH CAMPUS ADVANCED 2D HELD AT NORTH CAMPUS	ADOBE DESIGN 1 PREREQUISITE FOR ALL DIGITAL DESIGN COURSES VIDEO & ANIMATION PHOTOGRAPHY ADOBE DESIGN II HELD AT NORTH CAMPUS	3D DESIGN PREREQUISITE FOR ALL OTHER 3d COURSES CERAMICS SCULPTURE HELD AT NORTH CAMPUS ADVANCED 3D HELD AT NORTH CAMPUS
11th	ART SEMINAR PREREQUISITE fFOR 2d COURSES- ONLY IF NO OTHER PRIOR ART) DRAWING PAINTING ADVANCED 2D AP STUDIO ART	ADOBE DESIGN I PREREQUISITE FOR ALL DIGITAL DESIGN COURSES VIDEO & ANIMATION PHOTOGRAPHY ADOBE DESIGN II ADVANCED 2D AP ART STUDIO	ART SEMINAR PREREQUISITE fFOR 2d COURSES- ONLY IF NO OTHER PRIOR ART) CERAMICS SCULPTURE ADVANCED 3D AP STUDIO ART
12th	ART SEMINAR PREREQUISITE fFOR 2d COURSES- ONLY IF NO OTHER PRIOR ART) DRAWING PAINTING ADVANCED 2D AP ART STUDIO	ADOBE DESIGN I PREREQUISITE FOR ALL DIGITAL DESIGN COURSES VIDEO & ANIMATION PHOTOGRAPHY ADOBE DESIGN II ADVANCED 2D AP ART STUDIO	ART SEMINAR PREREQUISITE fFOR 2d COURSES- ONLY IF NO OTHER PRIOR ART) CERAMICS SCULPTURE ADVANCED 3D AP STUDIO ART
	 Adobe Photoshop Certification	 Adobe Illustrator Certification	 Adobe Premier Pro Certification



## VISUAL ARTS

### DESCRIPTION

### COURSE TITLE

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. This class meets the prerequisite for Drawing and Illustration.	<b>2D DESIGN (SC)</b> Credit: 1 Grade: 9-10 Prerequisite: None Duration: Semester
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. This course meets the prerequisite for Ceramics and Sculpture.	<b>3D DESIGN (SC)</b> Credit: 1 Grade: 9-10 Prerequisite: None Duration: Semester
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.	<b>ADVANCED 2D (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: Successful completion of Art Seminar and 1 of Drawing, Painting, or Digital classes Duration: Semester
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.	<b>ADOBE GRAPHIC DESIGN I</b> Credit: 1 Grade: 9-12 Prerequisite: None Duration: Semester
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 <i>another</i> 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.	<b>ADOBE GRAPHIC DESIGN II</b> Credit: 1 Grade: 10-12 Prerequisite: Adobe Graphic Design I or the 2023-24 Computer Graphic Imaging) Duration: Semester
Students create a personalized body of artwork that communicates their investigation into 3D design solutions. 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.	<b>ADVANCED 3D DESIGN (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: Successful completion of either Ceramics or Sculpture <b>and</b> 3D Design Duration: Semester

## VISUAL ARTS

DESCRIPTION	COURSE TITLE
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.	<b>AP STUDIO ART</b> Credit: 2 Grade: 11-12 Prerequisite: Advanced level art courses highly recommended. Duration: Year
This class is designed for juniors and seniors who <b>have not taken art at Arrowhead</b> . The goal of this introductory course is to expose students to 2-dimensional and 3dimensional art forms. Students will learn about the creative process using many different art materials. Visual literacy and critique are used as a means to help students learn to communicate through visual images.	<b>ART SEMINAR</b> Credit: 1 Grade: 11-12 Prerequisite: None (should not have a prior art course) Duration: Semester
Students will continue to explore 3D art through clay. Students develop their technical skills with hand-building and wheel-thrown projects. This class meets the prerequisite for Advanced 3D.	<b>CERAMICS</b> Credit: 1 Grade: 9-12 Prerequisite: 3D Design or Art Seminar Duration: Semester
Students enrolled in Digital Photography will explore photography techniques. Students will practice lighting and composition while deepening their Adobe Photoshop skills. Students will have a greater understanding of how images communicate to the viewer how photography has been used in history. Students will take field trips during the semester.	<b>DIGITAL PHOTOGRAPHY</b> Credit: 1 Grade: 9-12 Prerequisite: Adobe Graphic Design I Duration: Semester
Drawing and Illustration is designed to continue to enhance the skills and knowledge gained in 2D Design with an emphasis on digital images. Students will create their own digital work and visions after understanding where the techniques and design elements have originated. 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.	<b>DRAWING &amp; ILLUSTRATION</b> Credit: 1 Grade: 9-12 Prerequisite: Successful completion of Art Seminar or 2D Design Duration: Semester
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. This class meets the prerequisite for Advanced 2D Design.	<b>PAINTING STUDIO (NC)</b> Credit: 1 Grade: 10-12 Prerequisite: Successful completion of 2D Design or Art Seminar Duration: Semester

## VISUAL ARTS

DESCRIPTION	COURSE TITLE
<p>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.</p> <p>APPLICATION REQUIRED (see counselor)</p>	<p><b>PEER MENTOR ART (2D)</b>            Credit: 1            Grade: 10-12            Prerequisite: 2D Design            Duration: Semester</p>
<p>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.</p> <p>APPLICATION REQUIRED (see counselor)</p>	<p><b>PEER MENTOR ART (3D)</b>            Credit: 1            Grade: 10-12            Prerequisite: 3D Design            Duration: Semester</p>
<p>Students will further develop their artistic voice in the construction of 3D sculpture. Students investigate figurative, kinetic/movement -based, electrical lighting, modelmaking 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.</p>	<p><b>SCULPTURE</b>            Credit: 1            Grade: 9-12            Prerequisite: 3D Design or Art Seminar            Duration: Semester</p>
<p>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 Premiere Pro.</p>	<p><b>VIDEO &amp; ANIMATION (NC)</b>            Credit: 1            Grade: 9-12            Prerequisite: Adobe Graphic Design 1            Duration: Semester</p>

# World Languages

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. Each level of world language will be taught at both campuses, if enrollment permits. Otherwise, students may be required to attend the course at the opposite campus.

Level One	Chinese I, French I, German I, Spanish I
	A placement test is available for students who believe they are able to begin level two, as freshmen
Level Two	Chinese II, French II, German II, Spanish II
Level Three	Chinese III, French III, German III, Spanish III
Level Four	Chinese IV, French IV, German IV, Spanish IV,
Level Five	Advanced Placement Spanish Language and Culture

\*All World Language classes are year-long.

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.

## WORLD LANGUAGES

DESCRIPTION	COURSE TITLE
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 Spanishspeaking 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.	<b>*ADVANCED PLACEMENT SPANISH LANGUAGE &amp; CULTURE 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Spanish IV with 70% or higher recommended or consent of instructor Duration: Year
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.	<b>*CHINESE I 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: None Duration: Year
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.	<b>*CHINESE II 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: Successful completion of Chinese I- recommendation 70% or higher Duration: Year
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.	<b>*CHINESE III 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Successful completion of Chinese II- recommendation 70% or higher Duration: Year
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.	<b>*CHINESE IV 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Successful completion of Chinese III- recommendation 70% or higher. Duration: Year

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.	<b>*FRENCH I 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: None Duration: Year
---	--

<b>WORLD LANGUAGES</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
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.	<b>*FRENCH II 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: Successful completion of French I- recommended 70% or higher. Duration: Year
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.	<b>*FRENCH III 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: Successful completion of French II- recommended 70% or higher. Duration: Year
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.	<b>*FRENCH IV 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Successful completion of French III- recommended 70% or higher. Duration: Year
German I provides students with grammar study and reading and writing practice in German. Students are encouraged to express themselves orally in German from the beginning through classroom experiences, dialogues, skits, and games. The German sound system is presented, and listening comprehension is aided by the use of songs and media. All materials give broad and interesting insights into the culture and geography of Germany, Switzerland and Austria.	<b>*GERMAN I 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: None Duration: Year

German II will continue the study of the basic German grammar to include the past tense and complex sentences. Continuous detail on vocabulary, grammar concepts, and sentence structure is stressed. Reading selections and dialogues will be used as a basis for conversation and writing. All materials and media will add to students' cultural understanding and appreciation of German-speaking countries.	<b>*GERMAN II 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: Successful completion of German I- recommended 70% or higher Duration: Year
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.	<b>*GERMAN III 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: Successful completion of German II- recommended 70% or higher Duration: Year

<b>WORLD LANGUAGES</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
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.	<b>*GERMAN IV 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Successful completion of German III- recommended 70% or higher Duration: Year
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.	<b>*SPANISH I 1 &amp; 2</b> Credit: 2 Grade: 9-12 Prerequisite: None Duration: Year



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.	<b>*SPANISH II 1 &amp; 2</b> Credit: 2 Grade: 9 -12 Prerequisite: Successful completion of Spanish I- recommended 70% or higher Duration: Year
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.	<b>*SPANISH III 1 &amp; 2</b> Credit: 2 Grade: 10-12 Prerequisite: Successful completion of Spanish II- recommended 70% or higher. Duration: Year
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.	<b>*SPANISH IV 1 &amp; 2</b> Credit: 2 Grade: 11-12 Prerequisite: Successful completion of Spanish III- Recommended 70% or higher Duration: Year

THIS PAGE LEFT INTENTIONALLY BLANK



# **2025 Summer School Course Guide**

# Summer School

## Dates and Procedures

Arrowhead Summer School will be from **June 16 – July 24, 2025**, 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 2024-2025.

**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. Registration opens by grade level on the following dates:

12<sup>th</sup> grade – February 7- 5 p.m.

11<sup>th</sup> grade – February 10 -5 p.m.

10<sup>th</sup> grade – February 11-5 p.m.

9<sup>th</sup> grade – February 12 – 5 p.m.

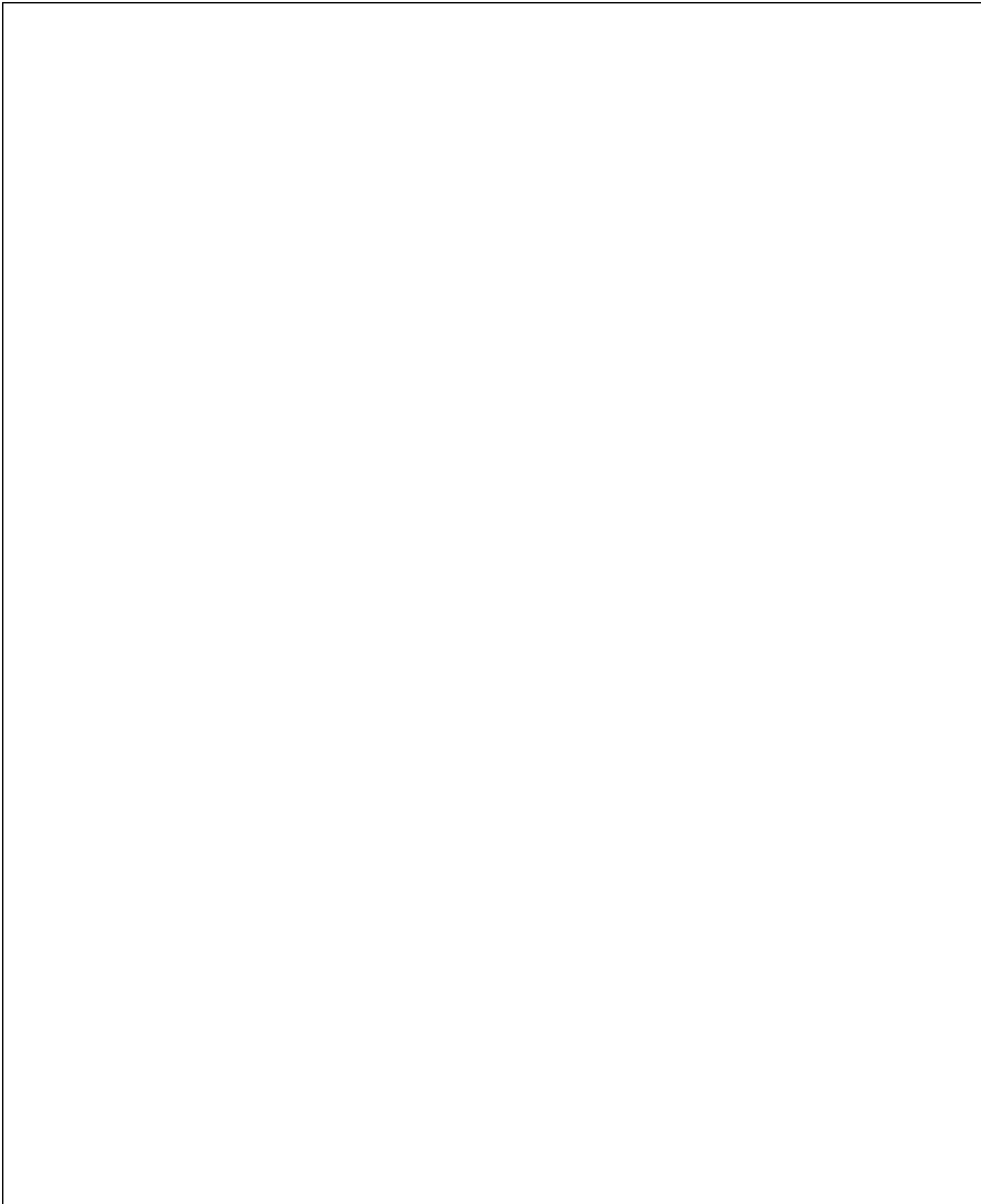
If there are sufficient students enrolled to offer the course, students may continue to add, if space is available until June 13, 2025. We do not maintain a waiting list for classes that fill up quickly. Families are encouraged to continue to check Skyward for open seats in the class, as students drop.

## 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. **Please note-repeating a class in summer school can only be done when the previous grade was an F and no credit was earned.**
- 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 to repeat a grade.

## 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 rest 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.

## ONLINE COURSES AT ARROWHEAD HIGH SCHOOL

Please read the descriptions carefully so that expectations are clear for online classes. **These students 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. Students should expect to be online daily throughout the week.
2. Students should 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. Students must log in to the course management system sometime in the first three days of summer school.
4. Students should 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. Students are required to participate in weekly online discussions.
6. Students must 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

DESCRIPTION	COURSE TITLE
<p>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.</p>	<p><b>*COMPOSITION</b>            Credit: 1            Grade: 11 -12            Prerequisite: None            Duration: 6-week Summer School            Class Period: Online</p>
<p>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.</p>	<p><b>*CREATIVE WRITING</b>            Credit: 1            Grade: 11-12            Prerequisite: None            Duration: 6-week Summer School            Class Period: Online</p>
<p>Students enrolled in English 9 focus on learning literature, grammar skills, writing and mechanics, and speech. English 9 is a required course for graduation. This Summer School course is for students who have already taken English 9.</p>	<p><b>*ENGLISH 9</b>            Credit: 1            Grade: 10-12            Prerequisite: English 9 1&amp;2            Duration: 6-week Summer School            Class Period: 7:30 – 9:55 a.m.</p>
<p>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.</p>	<p><b>*ENGLISH 10</b>            Credit: 1            Grade: 11-12            Prerequisite: English 10 1&amp;2            Duration: 6-week Summer School            Class Period: 10 a.m.-12:25 p.m.</p>
<p>English 11 is a required course for graduation intended for students who have already taken English 11. Reading literature, writing, grammar and other forms of communications will be the focus.</p>	<p><b>*ENGLISH 11</b>            Credit: 1            Prerequisite: English 11 1&amp;2            Duration: 6-week Summer School            Class Period:</p>

## HEALTH

DESCRIPTION	COURSE TITLE
<p>Health class emphasizes how individuals protect, maintain, and improve their health by developing, establishing and achieving positive lifestyle goals. This course is <b>fast-paced and requires nightly outside reading</b>. 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 &amp; Development. Some weekly assignments require internet access outside of school. Meets graduation requirements for Health.</p> <p>*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.</p>	<p><b>HEALTH</b>            Credit: 1            Grade: 9 - 12            Prerequisite: None            Duration: 6-week Summer School            Class Period: 7:30 a.m. – 9:55 a.m.            or            10:00 a.m. – 12:25 p.m.</p>

## MATHEMATICS

DESCRIPTION	COURSE TITLE
<p>Advanced Algebra follows the course description from the regular Arrowhead High School Curriculum Guide. The Summer School course covers the 2<sup>nd</sup> semester of the Advanced Algebra curriculum.</p>	<p><b>*ADVANCED ALGEBRA</b>            Credit: 1            Grade: 10 - 12            Prerequisite: Geometry 1&amp;2 and Advanced Algebra 1&amp;2            Duration: 6-week Summer School            Class Period: 10:00 a.m.–12:25 p.m.</p>
<p>Algebra follows the course description from the regular Arrowhead High School Curriculum Guide. The Summer School course covers the 2<sup>nd</sup> 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.</p>	<p><b>*ALGEBRA</b>            Credit: 1            Grade: 10 - 12            Prerequisite: Algebra 1&amp;2 or Algebra B 1&amp;2            Duration: 6-week Summer School            Class Period: 7:30 – 9:55 am</p>



Geometry follows the course description from the regular Arrowhead High School Curriculum Guide. The Summer School course covers the 2 <sup>nd</sup> semester of the Geometry curriculum.	<b>*GEOMETRY</b> Credit: 1 Grade: 10 - 12 Prerequisite: Algebra 1 & 2 and Geometry 1 & 2 Duration: 6-week Summer School Class Period: 7:30 - 9:55 am
---	---

<b>MUSIC/THEATER</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
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 9day 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.	<b>BROADWAY COMPANY</b> Credit: 1 Grade: 10-12 Prerequisite: Audition Duration: Summer School August 10-16
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.	<b>MARCHING BAND</b> Credit: 1/2 Grade: 9 – 12 Prerequisite: None Duration: Drumline August 4-7 Full Marching Band August 11-14  (Please note that registration for Marching Band does take place in Skyward AND on AHS Band Website.)

<b>PHYSICAL EDUCATION</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>

<p>Adventure Physical Education offers students outdoor experiences and recreational activities designed for lifetime fitness. <b>Students <u>must</u> attend all of the classes to receive credit.</b> There is an enrollment cap for this course.</p> <p>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.</p> <p>Session 1: 6/16,6/17,6/19,6/23,6/25,6/30,7/2 Session 2: 6/16,6/18,6/23,6/24,6/26,7/1,7/3</p> <p>Rain Dates: July 7,8</p>	<p><b>ADVENTURE PHYSICAL EDUCATION</b> Credit: 1 Grade: 12 Prerequisite: none Duration: Summer School Class Period: (See session dates)</p>
<p>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.</p>	<p><b>PERFORMANCE TRAINING</b> Credit: 1 Grade: 10 - 12 Prerequisite: None Duration: 6-week Summer School Class Period 10:00 a.m. – 12:25 p.m. or 12:30 p.m. -2:55 p.m.</p>
<p>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.</p>	<p><b>TRADITIONAL PHY ED</b> Credit: 1 Grade: 9 - 12 Prerequisite: None: Duration: 6-week Summer School Class Period: 7:30 a.m. – 9:55 a.m. or 10:00 a.m. – 12:25 p.m. or 12:30 p.m. – 2:55 p.m. <b>All classes will all meet at South Campus.</b></p>

SCIENCE	
DESCRIPTION	COURSE TITLE
<p>The topics, expectations, and rigor of this course are similar to the full-year Biology course. Topics will be drawn from the major units in that course; characteristics and classification of living things, ecology, biochemistry, cellular structure and function, genetics, and evolution. The course includes a significant laboratory component that will require the completion of written lab reports. Students will demonstrate an understanding of key concepts on frequent assessments. This course is open to those students who took Biology and want to repeat it.</p>	<p><b>*BIOLOGY</b> Credit: 1 Grade: 11 - 12 Prerequisite: Biology 1 or 2 Duration: 6-week Summer School Class Period: 7:30 a.m. – 9:55 a.m.</p>

<p>The topics, expectations, and rigor of this course are similar to the full-year Science 9 course. Topics will be drawn from the major units in that course: science foundations, motion, forces and energy, atomic theory, chemical reactions, and earth and space science. The course includes a significant laboratory component that will require the completion of written lab reports. Students will also be expected to demonstrate understanding of key concepts on frequent tests or quizzes, and homework may be assigned. This course is open to those students who took Science 9 and want to repeat it.</p>	<p><b>*SCIENCE 9</b>  Credit: 1  Grade: 10 -12  Prerequisite: Science  Duration: 6-week Summer School  Class Period: 10:00 a.m. – 12:25 p.m.</p>
--	--

<b>SOCIAL STUDIES</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>
<p>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</p>	<p><b>*AMERICAN AFFAIRS (formerly AMERICAN PROBLEMS)</b>  Credit: 1  Grade: 11 - 12  Prerequisite: None  Duration: 6-Week Summer School  Class Period: Online</p>
<p>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</p>	<p><b>*POLITICAL SCIENCE</b>  Credit: 1  Grade: 10 -12  Prerequisite: None  Duration: 6-Week Summer School  Class Period: Online</p>
<p>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.</p>	
<p>The Summer School curriculum will select themes taught during the school year. This Summer School class is for students who have already taken Social Studies 9.</p>	<p><b>*SOCIAL STUDIES 9</b>  Credit: 1  Grade: 10-12  Prerequisite: Social Studies 9 (1 &amp; 2)  Duration: 6-Week Summer School  Class Period: 7:30 a.m.-9:55 a.m.</p>

<b>GENERAL ELECTIVES</b>	
<b>DESCRIPTION</b>	<b>COURSE TITLE</b>

<p>Students looking to practice and improve their ACT scores can sign up for the 9 sessions. 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 <a href="mailto:theACTadvantage@gmail.com">theACTadvantage@gmail.com</a></p> <p><a href="#">See flyer for more details.</a></p> <p>Please note, this is not a credit bearing summer school class.</p> <p>There is a fee for the sessions.</p>	<p><b>ACT PREP SESSIONS</b>  Credit: None  Grade: 11  Duration: June 15-August 15  Mondays or Tuesdays at 1:00 p.m. or 2:15 p.m.  LOCATED AT SOUTH CAMPUS</p>
<p>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.</p>	<p><b>COLLEGE ESSAY WORKSHOP</b>  Credit: ¼ credit (pass/fail)  Grade:12  Prerequisite: None  Duration: August 11-14  Sessions are held virtually.</p>
<p>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.</p> <p><b>All students should bring a device to participate on this day.</b></p>	<p><b>FLIGHT–SENIOR EXPERIENCE</b>  Credit: None  Grade: 12  Prerequisite: None  Duration: 12:30 p.m. -3:00 p.m.  Date: Wednesday, August 13</p>
<p style="text-align: center;"><b>GENERAL ELECTIVES</b></p> <p><b>DESCRIPTION</b></p> <p style="text-align: right;"><b>COURSE TITLE</b></p>	
<p>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.</p> <p>Please note- when signing up for WINGS the schedule will show the summer school dates from beginning to end.</p>	<p><b>WINGS – FRESHMEN EXPERIENCE</b>  Credit: ¼ (pass/fail)  Grade: 9  Prerequisite: None  Duration: 7:30 a.m. – 12:00 p.m.  Dates: August 20-22</p>

## Arrowhead Devices

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 (policy 649). For more information about the [Cooperative Technology Program](#), contact Donna Smith.

### Device Guidelines for Classes of '26 ONLY

Arrowhead students (class of 2026) may choose to bring in a Macintosh laptop, a Windows laptop, or a Chromebook. *If your student needs to install software, a laptop is recommended.* However, if your student is just going to be using Internet-based programs, such as Google Docs, then a Chromebook will be sufficient. Please note that Chromebooks don't allow program installations and they require a constant Internet connection.

#### Wireless Connectivity



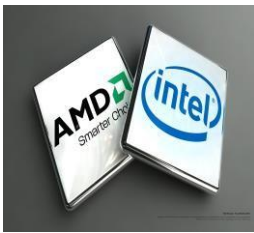

Wireless connectivity is key to devices in schools!

Devices must support 5Ghz dual band wireless or 802.11 a/g/n (preferably your device supports both a, n, and/or ac).



#### Operating System

To ensure the latest programs and software are compatible, we recommend the **current or previous version** of any operating system other than Linux.

<p><b><u>Battery Life</u></b></p>  <p>Your devices need to last the school day, we recommend a minimum of 8 hours of battery life, but longer battery life is preferred. <b>CAMPUS LIBRARIES HAVE CHARGING LOCKERS FOR STUDENT USE.</b></p>	<p><b><u>Chromebooks and Laptops</u></b></p>  <p>We recommend Chromebooks and laptops, rather than tablet devices.</p> <p><b>If your student needs to install software for classes, laptops are recommended over Chromebooks.</b></p>	<p><b><u>Memory or RAM</u></b></p> <p>4GB minimum <b>8GB or higher recommended</b></p> <p>To be able to process data effectively, these minimum specifications are recommended.</p>
<p><b><u>Hard Drive Storage</u></b></p> <p><b><u>Laptops:</u></b> 250GB or more hard drive space.</p> <p><b><u>Chromebooks:</u></b> 16GB or more hard drive space.</p> <p><b><u>Recommended:</u></b> Solid State Drives are preferred for fast performance</p>	<p><b><u>Processor or CPU</u></b></p> <p><b><u>Laptops:</u></b> 2.2GHz or faster</p> <p><b><u>Chromebooks:</u></b> 1.5GHz or faster</p> <p>The processor is the “brains” of the device and it handles all the data processing of the device.</p>	
	<p><b><u>Hardware Features</u></b></p> <p>Camera, earbuds, &amp; microphone.</p> <p>These are necessary to ensure students can participate in 21st century learning activities.</p>	<p><b><u>Screen Size</u></b></p> <p><b>Minimum:</b> 11 inches or greater at a resolution of 1280x1024 or greater.</p> <p>Ensure the screen is a reasonable size to enable ease of use throughout the school day.</p>
<p><b><u>Other Essential Considerations:</u></b></p> <ul style="list-style-type: none"> <li>Tech and Engineering require a PC at this time. Please refer to the <a href="#">Technology and Engineering Department section</a> before purchasing your device.</li> <li>Science has free software that will not currently work with a Chromebook.</li> </ul>	<p><b>Casing:</b> Should be tough and sturdy</p> <p><b>Weight:</b> Is the laptop light enough to carry all day?</p> <p><b>Durability:</b> Consider overall durability of the device. Are the keys and inputs sturdy?</p> <p><b>Carry Case:</b> A carry case or skin is essential in protecting your device and can provide ergonomic advantages.</p>	<p><b>Insurance:</b> Devices can become lost or be broken. Make sure your policy covers these issues.</p> <p><b>Warranty:</b> Make sure you consider purchasing extra warranty to cover repairs.</p> <p><b>Antivirus:</b> Protect your device from viruses and malware!</p>

DEPARTMENT /COURSE		FEE
1	Book Fee	<b>\$75</b>
2	Chromebook (Rent to Own)	<b>\$75</b>
3	Parking Fee	<b>\$105 /Semester</b>
4	Athletic Fee	<b>\$195 (One time per year fee)</b>
5	Activity Pass	<b>\$50</b>
<b>Art</b>		
6	2D Design	<b>\$15 /Semester</b>
	Advanced 2D Design	<b>\$20 /Semester</b>
	3D Design	<b>\$20 /Semester</b>
	Art Seminar	<b>\$15 /Semester</b>
	Ceramics	<b>\$20 /Semester</b>
	Advanced 3D Design (Ceramics)	<b>\$30 /Semester</b>

Adobe Design I	\$15 /Semester
Adobe Design II	\$15 /Semester
Design Concepts	N/A
Drawing and Illustration	\$15 /Semester
Painting Studio	\$20 /Semester
Digital Photography	\$15 /Semester
Sculpture	\$30 /Semester
AP Studio Art	\$20 /Year
Video & Animation	\$10 /Semester

#### **Business and Marketing**

7 Entrepreneurship Venture	<del>\$16 DECA Dues</del>
Introduction to Business	\$5 /Semester
Marketing and Business	<del>\$16 DECA Dues</del>
Multimedia/Graphic Applications	<del>\$5 /Semester</del>
Sales and Promotions	<del>\$16 DECA Dues</del>
Sports and Entertainment	<del>\$16 DECA Dues</del>
Management	





8	English 9	<b>\$23 /Year</b>	English 9 Honors
	<b>English 10</b>		<b>\$10 /Year</b>
	<b>English 11</b>		<b>\$23 /Year</b>
	<b>AP English Literature &amp; Composition</b>		<b>\$23 /Year</b>
	<b>Hist. of Western Civilization/Eng. 10 Block</b>		<b>N/A</b>
	<b>Family and Consumer Education</b>		
9	Culinary Food	<b>\$30 /Semester</b>	Design and
	Clothing	<b>\$6 /Semester</b>	
	Fashion Analysis		<b>\$10 /Semester</b>
	Food and Nutrition	<b>\$30 /Semester</b>	Food and Nutrition II <b>\$30 /Semester</b>
	Interior Design		<b>\$10 /Semester</b>
	Early Childhood Education		<b>\$5 /Semester</b>
	World of Food (International Cuisine)		<b>\$30 /Semester</b>
	<b>Health Science</b>		
10	Health Practicum	<b>\$20 /Year</b>	
	Medical Term. & Business Practices		<b>\$15 /Semester</b>
	Music		
	<b>\$25/Full Year Class -</b>		
	<b>(max. \$50/student/year)</b>		
	<b>\$12.50/Semester Class</b>		
	<b>(max. \$50/student/year)</b>		
	<b>Physical Education and Health</b>		
13	Adventure P.E.	<b>\$36 /Semester</b>	Aerobic Fitness
	for Life	<b>\$36 /Semester</b>	
	Individual P.E.		<b>\$36 /Semester</b>
	Performance Training		<b>\$24 /Semester</b>



**/Semester**P.E. 11/12 **\$36 /Semester**Team P.E. **\$36 /Semester****Science**14 AP Biology **\$10 /Year**Chemistry **\$8 /Year (Glassware)**Chemistry Accelerated **\$8 /Year (Glassware)**AP Chemistry **\$10 /Year**Engineering and Mechanics **\$25 /Year**Physics of Electronics **\$20 /Year**Science 9 **\$20 /Year (Goggles/notebook)**Science 9/Biology Accelerated Block **\$20 /Year (Goggles/notebook)****Social Studies**15 AP European History **\$12 /Year** AP Human  
Geography **\$0 /Year**AP Macroeconomics **\$12 /Year**AP Psychology **\$12 /Year**AP U.S. Government and Politics **\$0 /Year**AP U.S. History **\$12 /Year****Technology & Engineering**16 Automotive Technology I **\$15 /Semester**Automotive Technology II **\$15 /Semester**Advanced Automotive Technology **\$25 /Year**\*Cabinetmaking **\$25 /Year**Civil Engineering and Architecture **\$25 /Year**Consumer Auto **\$15 /Semester**Engineering and Mechanics **\$25 /Year**Engineering Design and **\$25 /Year**

Development

Intro to Engineering and **\$30 /Year**  
Manufacturing\*Machining I **\$25 /Year**\*Manufacturing & Engineering **\$25 /Year**

w/Materials

\*Metal Fabrication I **\$25 /Year**\*Metal Fabrication II **\$25 /Year**\*Woods Production I **\$15 /Semester**\* Woods Production II **\$15 /Semester****World Languages**17 Chinese I **\$0 /Online Workbook** Chinese II **\$10**  
**/Online Workbook**Chinese III **\$10 /Online Workbook**Chinese IV **\$35 /Online Workbook**French I **N/A**French II **N/A**French III **N/A**French IV **\$5 /Year**German I **\$35 For 1 Workbook**German II **\$49 For 2 Workbooks**German III **\$53 For 2 Workbooks**Spanish I **\$20 /Workbook**

	French II	N/A	
	French III	N/A	
	French IV	\$5 /Year	
	German I	\$35	For 1 Workbook
	German II	\$49	For 2 Workbooks
	German III	\$53	For 2 Workbooks
	Spanish I	\$20	/Workbook

	Spanish II	<b>\$35</b>	<b>/Workbook</b>
	Spanish III	<b>\$35</b>	<b>/Workbook</b>
	Spanish IV	<b>\$35</b>	<b>/Workbook</b>
	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- \$104 PER TEST/ COURSE. ADDITIONAL SCHOOL FEES LISTED IN THE ARROWHEAD PARENT/STUDENT HANDBOOK.		