

# APPLE VALLEY HIGH SCHOOL

10<sup>th</sup>-12<sup>th</sup> Registration Guide 2022 - 2023



## **National School of Excellence Award**

A Nationally Recognized Blue Ribbon School of Excellence

Number 1 in MSHSL State Championships - combined Arts and Athletics

National Endowment of the Arts Special Commendation for Distinctive Programming in the Performing and Visual Arts

Youth CareerConnect grant recipient, U.S. Department of Labor

"140 Best High Schools" in the U.S. Award for Redbook Magazine

Named "One of 12 Schools That Succeed" Phi Delta Kappa

"One of the Top 8 Athletic Programs in the U.S.A." Scholastic Coach and Athletic Journal

Minnesota Model Music School

Grammy Signature School

"National School of Excellence" Speech and Debate

Newsweek Top 5% of all High Schools in America

A Top High School in America – Washington Post and U.S. News & World Report

12/17/2021



academics • arts • athletics

District 196 STEM Corridor		
Cedar Park Elementary STEM School	Valley Middle School of STEM	Apple Valley High School

STEM for All Students		
<p><b>Fab Lab Classes</b></p> <ul style="list-style-type: none"> <li>Fab Lab Essentials</li> <li>Advanced Fab Lab</li> <li>Drone Construction, Modification and Flight</li> <li>Advanced Drone Construction</li> <li>Fab Lab Production, Sale, Store</li> </ul>	<p><b>Multimedia Makerspace and the STEM Experience Space</b></p> <p>High-powered multi-use audio-visual production lab designed to support creative, collaborative, STEM learning.</p>	<p><b>Career and College Pathways</b></p> <p>Support to make connections between classes and future careers.</p>
<p><b>STEM Habits of Mind</b></p> <p>AVHS will embed STEM Habits of Mind into classrooms across the curriculum:</p> <ul style="list-style-type: none"> <li>Solve problems</li> <li>Collaborate</li> <li>Adapt content knowledge use for real-world applications</li> </ul>	<p><b>STEM Classes</b></p> <ul style="list-style-type: none"> <li>Project Lead the Way engineering, technology, &amp; design classes</li> <li>Cisco, Intro to Comp. Sci. and AP® Comp. Sci. IT &amp; programming classes</li> <li>Tech-based communication in Writing for STEM Disciplines &amp; EagleEye</li> <li>Music Production 1 &amp; 2</li> <li>CIS Human Physiology</li> </ul>	<p><b>Cocurricular Activities</b></p> <ul style="list-style-type: none"> <li>Robotics</li> <li>Math Team</li> <li>Rocket Club</li> <li>Chess</li> <li>Eagle Media Crew</li> <li>Science Olympiad</li> <li>Speech &amp; Debate</li> <li>Athletic Training Assistants</li> <li>Health Occupations Students of America (HOSA)</li> </ul>

Go to <https://avhs.district196.org/academics/stem-for-all> for more information.

E3 STEM: Exploration, Education & Employment in STEM Fields	
STEM Cohorts are for grades 9, 10, 11 & 12. Interested students should apply NOW.	
Earn college credits in high school while exploring career opportunities in in-demand fields: Engineering, IT, Medical Careers, Energy Tech, Nanoscience, Biomedical Tech and other STEM careers	Activities, internships & mentorships with local business partners: Augustana Regent of Burnsville, BTM Global, Collins Aerospace, Dakota Electric, Ergotron, ISG, SFM Mutual, Thomas Reuters, Uponsor, Wold Architects and others
Individualized academic and career counseling and tutoring in math and science.	

Applications being accepted **now** for students going into 9<sup>th</sup> grade:

<https://tinyurl.com/e3stemreg>

# Apple Valley High School Registration Guide 2022-2023

STEM Program Information .....	
Step by Step Online Registration Instructions.....	
General Information for Parents and Students.....	
AVHS Graduation Credit Requirements .....	
District 196 Graduation Requirements .....	
AVHS Graduation Requirement Checklist .....	
Recommendations for Post-High School Preparation.....	
Testing Out (Credit Via Assessment) .....	
Pass – No Credit System.....	
Student Schedule Correction Guidelines .....	
Cocurricular Programs Requiring a Study Hall for Participation .....	
NCAA Eligibility.....	
Registration Worksheet .....	
Independent Study – External & Internal.....	
ACT Preparation .....	
Art Education .....	
AVID .....	
Business and Marketing Education .....	
Career Development and Enrichment Opportunities .....	
English Language Arts .....	
English Learners .....	
Family and Consumer Science.....	
Mathematics .....	
Mentor Program .....	
Performing Arts.....	
Physical Education, Wellness & Safety Education.....	
Science .....	
Social Studies .....	
Support Services.....	
Technology, Engineering & Manufacturing.....	
Work Experience .....	
World Language .....	
Other Electives .....	
School of Environmental Studies .....	

## Apple Valley High School 2022-2023 Online Registration

Students may complete online registration after they have reviewed the registration guide and completed the registration sheet. Students will have the opportunity to select courses and make changes online through January 28, 2022. Any changes needed after January 28 must be submitted **by** a school counselor.

### ONLINE REGISTRATION INSTRUCTIONS

**SELECTING ACADEMIC COURSES** -- Registration will be completed through the District's Online system, Campus. Complete directions will be sent to all families via Schoology and our School Messenger system.

Students and Parent access to Campus: <https://district196mn.infinitecampus.org/campus/portal/district196.jsp>

Student access to Schoology: <https://school.district196.org/login/ldap?&school=967827650>

**9th and 10th Grades: Must have at least 6 classes and cannot have more than one study hall per trimester.**

**11th and 12th Grades: Must have at least 5 classes and cannot have more than two study halls per trimester.**

**\*\*Please note – study halls are placed where they best fit into a student's schedule**

## Apple Valley High School

Dear Students of Apple Valley High School:

At AVHS, we strive to prepare our students to be innovative citizens by integrating STEM principles into academics, arts, and athletics. At AVHS, "learning looks different" and we are dedicated to ensuring that every student graduates ready to be a lifelong learner, problem solver, and solution maker.

In addition to a variety of challenging learning experiences, students have the opportunity to discover career interests in STEM fields while improving their academic and critical thinking skills. Many AVHS courses offer dual credit, which allows students to earn college and high school credits at the same time. Advanced Placement (AP) and College-in-the-Schools (CIS) programs offer cost savings upon graduation while increasing student confidence before leaving high school. Please consider taking one of these courses if you haven't yet done so. If you need advice, consult with your counselor or teachers.

Your counselor and family will use this guide during December and January to help you choose the courses that you will study for the upcoming academic year. As you plan your course selections for the 2022-23 school year, please read your registration guide carefully, paying specific attention to:

- Graduation requirements
- Dual Credit opportunities (earning college credit and high school credit)
- Post-Secondary plans, college/technical program admissions requirements
- Course descriptions that include prerequisites so you will know if you qualify to take that course

Changing your high school schedule after registration can be difficult, so plan your course selections with the help of your parents/guardians, teachers, and counselors. The Apple Valley High School staff is here to help you and we wish you the greatest success in your academic pursuits. Go Eagles!

Principal Mons

Parents/Guardians:

As always, registration is an exciting time each school year. The opportunity to select courses that can help students on their post-secondary path is a great time during the school year.

Registration is completed online. The registration guide is also online. If you would like to meet with your AVHS counselor, please call 952-431-8218 to schedule an appointment.

If we can assist you with your registration give us a call at 952-431-8212. The registration process is an exciting time of the year. Please take this time to consider all the academic opportunities offered at Apple Valley High School.

Sincerely,

Pete Buesgens  
Assistant Principal

## GENERAL INFORMATION FOR STUDENTS AND PARENTS

This information has been prepared to help families understand the senior high school curriculum and the various educational opportunities available to each student.

It is of utmost importance for each student to plan his/her own future educational program. Many critical decisions must be made during this period. Parents, current teachers and counselors can help students consider the many options available. Considerations may include past and current academic performance, attitudes and ambitions, standardized test scores, and interests.

District 196 teaches students human sexuality curriculum and HIV/AIDS prevention curriculum. Course descriptions in this guide identify where this curriculum is taught. For specific information about what is taught in these areas, please contact the school principal. Parents who are uncomfortable with the curriculum after talking with the principal may withhold their student from specific class sessions in which these curricula are taught.

As students select the courses which will make up their next year's program, they should consider:

1. Graduation requirements
2. Career plans
3. College entrance requirements
4. Those courses which have value, meaning, and appeal to each individual student.

### How to Use this Registration Guide:

1. The major part of this guide consists of course descriptions. The courses are organized by department, i.e., Social Studies, Business Education, Technology Engineering & Manufacturing, etc.
2. Each individual course is one trimester (12 weeks) in length, has its own course number, and is worth one credit unless otherwise stated. The time of the year the course is offered is designated by F (Fall trimester), W (Winter trimester), and S (Spring trimester).
3. Although each course is one trimester in length, some courses are intended to follow a sequence in order to take a full year of that course. Example: Biology F-5051, W-5052, S-5053 (Fall, Winter, Spring).
4. Advanced, Honors and Advanced Placement® courses are listed in several departments. An "Advanced" level course is the second year programming of a particular class (Example: Accounting and Advanced Accounting). An "Honors" course is a course taught at a higher level or faster pace - students would choose either the regular level or the honors level (Example: Chemistry or Honors Chemistry). An Advanced Placement® course is a full year course taught at a rigorous level. College credit is awarded at some colleges provided the student successfully completes the A.P. exam in May with a score of "3" or higher. Please check with the individual college for specific details involving granting of college credit.
5. Some classes are offered for specific grade levels.
6. A prerequisite is a course that is required before taking another course. Some courses have prerequisites.

Example:       Drawing  
**Course Title:**   **Drawing** 1043  
Grades: 9-10-11-12  
Prerequisite:   Introduction to 2D/3D Art

Who is allowed to take the class? Students in 9th, 10th, 11th and 12th grades.

Prerequisite? You must have Introduction to 2D/3D Art before you take Drawing.

7. **Be sure to read the course descriptions carefully before a class is selected.** When registering online, students enter course numbers, not course names.

## Apple Valley High School Graduation Credit Requirements

To be eligible for graduation each student shall have completed 66 credits in Grades 9, 10, 11, and 12.

### **Grade 12 Requirements\*:**

- 3 English Language Arts courses - Minimum of one each trimester. Must take three English electives or AP® American Literature and Composition or AP® Language and Composition.
- 3 12th Grade Social Studies courses - Minimum of one each trimester – one trimester of economics is required

Total of at least 5 credits each trimester, totaling 15 trimester credits for the year. However, students are encouraged to take more.

### **Grade 11 Requirements\*:**

- 3 English Language Arts courses - Minimum of one each trimester. Must take English 11 or AP® Language and Composition
- 3 World History courses - Minimum of one each trimester.  
AP® Modern World History also meets all World History requirements.
- 3 Mathematics courses
- 3 Science courses (Chemistry or Physics in grade 11 or 12)

Total of at least 5 trimester credits each trimester, totaling 15 trimester credits for the year. However, students are encouraged to take more credits.

### **Grade 10 Requirements\*:**

- 1 Safety Education (Can also be taken in 9th - age 15 requirement)
- 1 Wellness 2 - A full schedule may necessitate leaving this course for grade 11.
- 2 Physical Education courses - (may be delayed until junior or senior year with approval of counselor and parent).
- 3 English Language Arts courses Speech, Lit 10 and Comp 10 - Check the English Language Arts section for exact courses required – Minimum of one course each trimester.
- 3 U.S. History courses – Minimum of one each trimester.
- \* AP® U.S. History fulfills the 10th grade U.S. History requirement.
- 3 Mathematics courses
- 3 Science courses (Biology)

Total of at least 6 trimester credits each trimester totaling at least 18 trimester credits for the year.

### **Grade 9 Requirements\*:**

- 1 Safety Education (age 15 requirement)
- 1 Wellness 1
- 1 Physical Education class: Fitness for Life (Students may take an additional Physical Education class if they do not meet the Safety Education age requirement.)
- 3 Honors or On-Level English 9 - Minimum of one course each trimester.
- 3 Honors or On-Level Citizenship and Government - Minimum of one course each trimester.
- 3 Honors or On-Level Earth Science - Minimum of one course each trimester.
- 3 Mathematics - Minimum of one course each trimester.
- 3 Courses in Electives of Art, Technology, Engineering and Manufacturing, Family and Consumer Science, Music, World Language, Business, Dance and Physical Education.

Total of at least 6 trimester credits each trimester totaling at least 18 trimester credits for the year.

### **Additional Requirement:**

\*In addition to the above requirements, each student will be required to complete in their 9th, 10th, 11th or 12th grade year:

- 1 Art Elective – To be taken in grade 9, 10, 11, or 12. Any art course, Choir, Band, Dance, Interior Design, Marketing 1: Advertising, Intro to Drafting and Architecture, Intro to Engineering and Music Production.

## DISTRICT 196 GRADUATION REQUIREMENTS

Satisfactorily complete 66 credits of coursework at the high school level, grades 9-12 inclusively, as specified below:

- **English Language Arts** – four years (12 credits)
- **Social Studies** – four years (12 credits) – encompassing U.S. history, geography, world history, government/citizenship, and economics
- **Mathematics** – three years (nine credits) – encompassing algebra, geometry, and statistics and probability
- **Science** – three years (nine credits) – encompassing biology and chemistry or physics
- **Arts** – one course (one credit) – from Art, Choir, Band, Dance, Interior Design, Marketing 1 A/Advertising, Architecture A, or Computer Imagery, Intro to Engineering, Principles of Engineering, Engineering Design & Principles, Civil Engineering Architecture, Digital Electronics and Music Production.
- **Physical Education** – four courses (four credits)
- **Wellness** – two courses (two credits)
- **Safety Education** – one course (one credit)
- **Other** – 16 credits, of which not more than 12 credits of instrumental and/or vocal music may be applied toward fulfillment of the graduation requirements

### Minnesota Graduation Assessment Requirements

The Minnesota Legislature continues to be involved in making changes to the state testing guidelines. At the time of this printing, there are no state testing requirements to receive a diploma from any Minnesota public school in MN Legislation for the Class of 2018 and beyond. Students in grades 9, 10 and 11 will be required to meet testing requirements if set by the MN Legislature.

In 2017-18 District 196 juniors began taking a free ACT + Writing test at their home high school, during the school day. The MCA Reading test (grade 10), Math test (grade 11) and Science test (all Biology students) will be administered during Spring Trimester. (These dates are subject to change. Please see the live, digital School Calendar at [district196.org/avhs](http://district196.org/avhs) for up-to-date information.)

### Why We Test

As explained in the MN Department of Education's procedure manual:

“The Elementary and Secondary Education Act (ESEA) and MN Statute 120B.30 require that all public school students be assessed in reading and mathematics in grades 3-8 and once in high school for Adequate Yearly Progress (AYP) and Multiple Measurement Ratings (MMR). ESEA and MN Statute 120B.30 also require that all public school students be assessed in grades 5, 8, and once in high school in science but science assessment results are not included in AYP proficiency or MMR calculations. However, student participation in the assessment is calculated.

The primary purpose of the Standards-Based Accountability Assessments is to measure achievement on the MN Academic Standards. Districts and schools use the results to inform curricular decisions. Parents use the results to monitor the academic progress of their children over the years.”

## RECOMMENDATIONS FOR POST-HIGH SCHOOL PREPARATION

Individual admissions criteria vary so please check with your post-secondary schools of interest

Courses for Entering	Colleges, Universities, Military Academies	Community and Technical Colleges
English/Language Arts	Four Years	Four Years
Science	Three to four years Earth Science Biology Chemistry Physics	One to three years
Math	Three to four years Algebra (2 years) AP® Statistics Geometry Calculus CAPS	Two to four years
Social Studies	Four years	Four years
World Language	Two to four years of same language	Two to four years of same language
Visual Arts Family & Consumer Science Mentor Program Technology Engineering & Manufacturing Performing Arts	One year (Recommended but not required)	One to four years
Business	One year (Recommended but not required)	One to four years

### Information on Class Rank in District 196

District 196 High Schools have determined that reporting class rank will no longer be practiced beginning with the Class of 2020. Rather, recognizing student achievement will be through a process that is common to colleges and universities. Students with a grade point in the 90<sup>th</sup> percentile will be recognized summa cum laude, those in the 80<sup>th</sup> percentile will be magna cum laude and those in the 70<sup>th</sup> percentile will be cum laude. Class rank or percentile will only be reported directly to the college/scholarship in the rare event that it must be reported in order for the student to be considered for acceptance.

### Minnesota World Language Proficiency Certificates and Bilingual/Multilingual Seals

The Minnesota Department of Education awards Minnesota World Language Certificates or Bilingual/Multilingual Seals to graduating seniors who demonstrate an ACTFL proficiency level of Intermediate Low or above in one or more languages. These awards offer state recognition for students and opportunities for college credit at Minnesota State Colleges and Universities. Students take a proficiency assessment administered in the spring.

A list of language proficiency assessments currently offered can be found on the district website:

<https://www.district196.org/academics/bilingual-and-multilingual-seals-and-certificates>. Please contact a World Language teacher, EL teacher, Cultural Family Advocate, or Counselor for more information.

## **Honors Level and ADVANCED PLACEMENT® COURSES**

Students who are currently in or plan to take advanced level courses might consider the following courses/programs.

### **ADVANCED LEVEL ENGLISH LANGUAGE ARTS**

- Honors English 9
- Honors Literature 10
- Honors Composition 10
- Honors Speech 10
- Advanced Placement® Language and Composition (11)
- Advanced Placement® Literature and Composition (12)
- College in the Schools – Public Speaking
- College in the Schools – Writing Studio

### **ADVANCED LEVEL MATH**

- Honors Geometry
- Honors Algebra 2
- Honors Precalculus
- Advanced Placement® Calculus AB
- Advanced Placement® Calculus BC
- Advanced Placement® Computer Science A
- Advanced Placement® Computer Science Principles
- Advanced Placement® Statistics
- College Linear Algebra & Differential Equations
- Multivariable Calculus

### **ADVANCED LEVEL SCIENCE**

- Honors Earth Science 9
- Honors Biology
- Honors Chemistry
- Advanced Placement® Biology
- Advanced Placement® Chemistry
- Advanced Placement® Physics

### **ADVANCED LEVEL SOCIAL STUDIES**

- Honors Citizenship and Government 9
- Advanced Placement® U.S. History
- Advanced Placement® Modern World History
- Advanced Placement® Economics (micro and macro)
- Advanced Placement® Psychology
- Advanced Placement® U.S. Government/Politics
- College in the Schools – An Interdisciplinary Look at the Family in Multicultural America

### **ADVANCED WORLD LANGUAGE**

- College in the Schools – Spanish 5
- College in the Schools – German 4

### **CIS (College in the Schools)**

- College in the Schools – Human Physiology and Medical Technology
- College in the Schools – French 4
- College in the Schools – German 4
- College in the Schools – Public Speaking
- College in the Schools – Spanish 5
- College in the Schools – Writing Studio
- College in the Schools – An Interdisciplinary Look at the Family in Multicultural America

## **MENTOR PROGRAM**

\*This program is designed for college bound juniors and seniors who are interested in exploring college and career options suited to their personal interests, talents, and goals. Students who successfully complete Mentor Seminar are eligible for Mentor Field Experience where they are placed with a professional mentor to gain insights and experience in the career.

## **THE MINNESOTA POST-SECONDARY ENROLLMENT OPTION**

\*Eligible sophomores, juniors and seniors at Apple Valley High School may enroll at Minnesota post-secondary institutions. Students may take classes for secondary and post-secondary credit. The purposes of the program are as follows:

- a. To promote rigorous educational pursuits.
- b. To provide a wider variety of options for students.

\*Contact your counselor if you are qualified and interested in the above opportunities.

## **Articulated College Credit**

District 196 partners with select post-secondary schools to offer courses that may be eligible to earn college credit. Students attend these courses during the regular school day and receive credit on their Apple Valley transcript. Additionally, students who meet the post-secondary school requirements are also awarded Articulated College Credit. District 196 utilizes the CTECreditMN.com website to facilitate articulation agreements. Student will be able to access copies of Awarded Articulated Credit Certificates through their personal accounts up to two years after graduation. Articulated College Credits are typically earned in 11th and 12th grade, however, some courses do award credit to 10th graders. Students should verify all eligibility requirements with instructors.

## **Equal Opportunity Statement**

District 196 does not discriminate in employment or in any of its programs and activities, including vocational opportunities, on the basis of sex, race, religion, color, creed, national origin, marital status, familial status,\* disability, status with regard to public assistance, sexual orientation, membership or activity in a local human rights commission,\*age or genetic information.\*ISD 196 provides equal access to designated youth groups.

The Director of Human Resources, Tom Pederstuen (651-423-7859 – tom.pederstuen@district196.org) has been designated to respond to employment-related inquiries regarding the non-discrimination policies including Title IX. The Director of Elementary Education, Sally Soliday (651-423-7782 – sally.soliday@district196.org) and the Director of Secondary Education, Michael Bolsoni (651-423-7712 – Michael.Bolsoni@district196.org) have been designated to respond to student-related inquiries regarding the non-discrimination policies including Title IX. The Director of Special Education, Janet Fimmen (651-423-7629 – janet.fimmen@district196.org) has been designated to respond to inquiries concerning the rights of a student with a disability including Section 504. The mailing address for all directors is 3455 153rd Street W, Rosemount, MN 55068.

\*Asterisked categories are limited to employment-related discrimination and harassment.

## Testing Out (Credit Via Assessment)

When the student applies to receive credit for a course through testing out (an assessment process), the specific requirements for awarding the credit will be established. The same requirements will apply to other students who later request credit for that course. Requirements may be revised whenever the need arises to do so.

### Process for Applying

- A. The student will discuss the request for testing out with their counselor, receive an application, and meet with the teacher in charge of testing out for that subject. All information regarding testing out expectations, timelines, and curriculum will be discussed and agreed upon at that time. Student and teacher will complete the application together and forward it to the counseling office.
- B. Applications must be received by the counseling office one full trimester before the beginning of the course for which the testing out application is being made. The intervening trimester will be used to develop the assessment tool, administer the assessment, award credit, and place the student in an alternative course if needed.
- C. All portions of the assessment must be completed within a two trimester period and six weeks prior to the regular class. Credit Via Assessment will not carry over into summer months. If a student has not completed within the timeline stated on the application or they have failed to meet the grade necessary, their counselor will commence placement into an appropriate class.

### Process for Assessing

- A. In some instances, the end-of-course assessment, if one has been developed, will be used as the first part of the process. Only students who pass the district assessment at an 80% level (or exhibit high quality work on a performance-based assessment) will be eligible to continue to the second part of the process.
- B. During the second portion of the assessment process, the student may be asked to demonstrate skills, answer questions in an interview, exhibit a portfolio of tasks, or be involved in some other performance-based assessment.
- C. Once the entire assessment process has been developed for a course, all subsequent applicants will be assessed using that process. The assessment office will administer all paper/pencil tests developed for the first part of the testing process. If that assessment contains a performance component or requires the use of special equipment such as a computer, the school will make the arrangements. The second portion of the assessment process will be conducted by the department.
- D. A student may attempt to test out only once for each course and may not test out of a course in which he/she has been previously enrolled. Courses which are sequential must be tested out in the same sequence. If a course requires a prerequisite, the prerequisite must have been completed or satisfactorily tested out ahead of time. If a student fails to complete the entire assessment process during the designated time period, the application will be denied.
- E. Students who do not satisfactorily complete the assessment process may ask to have their case reviewed.
- F. If the student completes an assessment process in a satisfactory manner, the student's transcript will show the credit earned and a course grade of S+. Depending on the course, students may earn a trimester credit, a full year credit, or in the case of a full year course a student could successfully complete just one of the trimesters. Following the review process timeline, counselors will update the student's transcript.
- G. Students must continue to maintain full time status in accordance with district policy. The original copy of the student's application and results will be placed in the student's file.

### CLEP:

CLEP exams are an opportunity to earn college credit while still in high school. CLEP exams are accepted at almost 3,000 colleges around the country and MNSCU institutions are required to accept successfully passed CLEP exams with a score of 50 (equivalent to a C) or better, depending on a student's career and academic goals. The University of Minnesota system and private colleges in MN are also encouraged to accept CLEP exams for credit. See your counselor for further information.

## Pass – No Credit System

Students may take one class each trimester on a “Pass-No Credit” basis whether he/she is taking five, six or seven subjects. This option may encourage students to explore interests in a subject in which they may not be willing to risk getting a low grade. The many course offerings at the senior high level may be more willingly explored under such a program. Procedure: Students registering for the courses during registration need not make a decision to take a course on a “Pass-No Credit” basis but may select a course with that in mind. Prior to the Monday following the Parent/Teacher Conferences of that trimester, the student needs to fill out the online form (found in the Counselors page under “Student Services Forms”).

All “Pass-No Credit” students in any course will take all tests, turn in all regular class work, and receive grades along with other students. Only the final mark is a “Pass-No Credit” mark. A subject taken on a “Pass-No Credit” basis will not affect a student’s class rank or honor roll standing. If the student passes the class the student will receive a “P” and one credit on his/her report card for that class. If the student fails the class, the student would then receive an “NC” (no credit) on the report card. At the end of the trimester, the student still has the option of taking the class for the grade (A or B) even though the student signed up for a Pass-No Credit. All the student has to do is inform the teacher that a grade is preferred.

## Student Schedule Correction Guidelines

Before winter trimester, a schedule correction period will be held. Students will be able to examine their classes for both winter and spring trimesters and request changes. This will be the final opportunity to request changes for the remaining school year. Schedule Correction Request Forms are available in the AVHS Counseling Office and must be turned in by the specified deadline. Student requests for class changes during schedule corrections **will not** be able to be honored for the following reasons:

1. Requests for a specific teacher
2. Requests for specific study hall periods
3. Requests for changing classes to different periods

Much time and effort has been spent on meeting the initial scheduling selections which students and parents requested. Schedule corrections, therefore, must be for definite educational reasons. There will be no schedule corrections after the designated week. All schedule corrections are subject to parent approval and class availability.

**During the 1<sup>st</sup> week of a trimester, students may drop a class to go to a study hall without penalty. Students must keep a minimum of 6 classes as freshmen and sophomores, and a minimum of 5 classes as juniors and seniors. Classes are NOT added once a trimester starts. Students who drop a class after the first week will receive an F.**

## COCURRICULAR PROGRAMS REQUIRING A STUDY HALL FOR PARTICIPATION

These cocurricular study halls receive no credit. They are listed in this guide only because they require that a student have a particular study hall which will be used for practice. Students may not sign up for these activities without a written permission slip from the appropriate coach.

BOYS’ HOCKEY W-0258	Prerequisite:	Permission from the head boys’ hockey coach
GIRLS’ HOCKEY W-0259	Prerequisite:	Permission from the head girls’ hockey coach
BOYS’ GOLF S-0260 – Gr. 9-10-11-12	Prerequisite:	Permission from the head boys’ golf coach. With only a few exceptions, 9th and 10th graders will have golf after school – they won’t need to sign up.
GIRLS’ GOLF S-0261 – Gr. 9-10-11-12	Prerequisite:	Permission from the head girls’ golf coach. With only a few exceptions, 9th and 10th graders will have golf after school – they won’t need to sign up.

## NCAA Eligibility Center information

Click on this link to access information on Division I Academic Requirements: <http://www.ncaa.org/student-athletes/play-division-i-sports> . For Division II Academic Requirements, go here: <http://www.ncaa.org/student-athletes/play-division-ii-sports>

Prospective DI and DII athletes should set up their account on the NCAA Clearinghouse at <https://web3.ncaa.org/ecwr3/>

## REGISTRATION WORKSHEET

List classes that you will be taking for the coming school year so you will know what classes you selected.

DON'T FORGET YOUR REQUIRED COURSES!

FALL TRIMESTER

_____	_____
_____	_____
_____	_____
_____	_____

WINTER TRIMESTER

_____	_____
_____	_____
_____	_____
_____	_____

SPRING TRIMESTER

_____	_____
_____	_____
_____	_____
_____	_____

## **INDEPENDENT STUDY – EXTERNAL & INTERNAL Alternative Methods of Earning Credits at AVHS**

### **Independent Study Outside of AVHS (External)**

Sometimes students wish to enroll in programs outside of AVHS for which they want to receive credit toward graduation. These are usually organized programs offered by recognized educational institutions that help students expand their education and experience.

An example of a program already recognized is the Concordia Language Villages (world language summer camps offered by Concordia College).

Any student wishing to earn Independent Study credit toward graduation other than from the above mentioned program or from a program not currently recognized by AVHS must complete the following process prior to enrolling.

1. Student obtains the external Independent Study form from his/her counselor.
2. The student discusses the specifics of his/her plan with their counselor.
3. Student completes the form and obtains signatures of parent, counselor, and assistant principal.
4. The counselor brings the plan to a committee for approval, revision, and determination of credit value.
5. Upon successful completion of the Independent Study project, the committee notifies the counselor who enters the credits onto the student's permanent record.

### **Independent Study Within AVHS Departments (Internal)**

Students wishing to earn Independent Study credit by conducting an independent project, study, or activity under the supervision of an AVHS staff member should complete the following process:

1. Student obtains an Internal Independent Study form from his/her counselor or the department coordinator. The form is to be returned to the counselor prior to schedule changes of the trimester for which the Independent Study is requested. Students may do one Independent Study for credit per trimester.
2. Student completes the form and obtains signatures of parent, department coordinator, and counselor. Completed forms are returned to the counselor.
3. Student conducts the Independent Study project/activity under the supervision of the supervising teacher.
4. The Independent Study program must include a minimum of 60 hours of work to receive 1 trimester credit. Partial credit is not awarded.
5. Upon successful completion of the Independent Study project, the supervising teacher completes the grade sheet.
6. The grade for the Independent Study activity is entered onto the student's permanent record.

# ACT PREPARATION

**ACT Preparation Course** F-9090, W-9091

Grade: 11-12

Prerequisite: Currently enrolled in Algebra 2 or above

This class is recommended for college-bound juniors and seniors planning to take the ACT exam. Almost all undergraduate colleges and universities require that prospective students take the ACT. Taking this course will prepare students for the question types found on the ACT. We will analyze test question categories and give special consideration to math and verbal refreshers and techniques aimed at relieving test-taking anxiety. Topics include sentence completions and reading comprehension for the reading section, grammar and essay writing for the writing section, scientific concepts for the science section, and basic and advanced math concepts (including fractions, decimals, percentages, ratios and proportions) and algebraic and geometric concepts for the math sections. **This course has not been approved by the NCAA Clearinghouse.**

# ART EDUCATION

## VISUAL ARTS: A PROGRAM OF STATE AND NATIONAL DISTINCTION FOR EXCELLENCE

Fulfills the Minnesota High School Arts Graduation requirement

The visual arts program provides a journey of artistic discovery for creative self-expression and personal fulfillment and for developing right-brain functions considered essential for tomorrow's leaders, inventors, thinkers, and artists. The program also provides important preparation for future success in an information society that emphasizes visual imagery for communication. Study in the visual arts begins with two trimesters of exploratory art experiences followed by 12 one-trimester courses of in-depth study in Digital Art & Design, Ceramics, Drawing, Creative Dimensions, Jewelry, Painting, Photography, and Sculpture. Further advanced study is available in all areas with two additional levels of study offered. Also available for the seriously interested college bound art student is Advanced Placement® college credit through enrollment in Portfolio on an instructor permission basis.

All students entering the AVHS Visual Art Program for the first time and who have not completed an equivalent course begin with Introduction to 2D/3D Art. This class is the foundation course which provides the opportunity to meet the needs of both generally interested students and the student who is interested in in-depth study. The foundation courses offer interest exploration in a broad range of media contributing to student creativity, perceptual awareness, nonverbal communication skills, and cultural appreciation. Successful completion of Introduction to 2D/3D Art students allows students to enroll in two-dimensional art courses (Painting, Drawing, Photography, Graphic Arts and Animation, and Creative Dimensions) and three-dimensional art courses (Ceramics, Sculpture, Jewelry, and Creative dimensions).

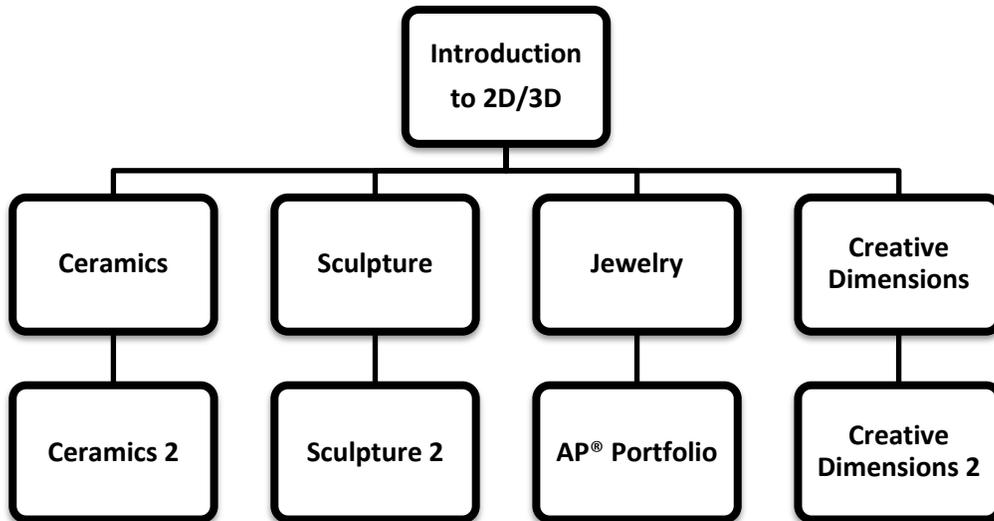
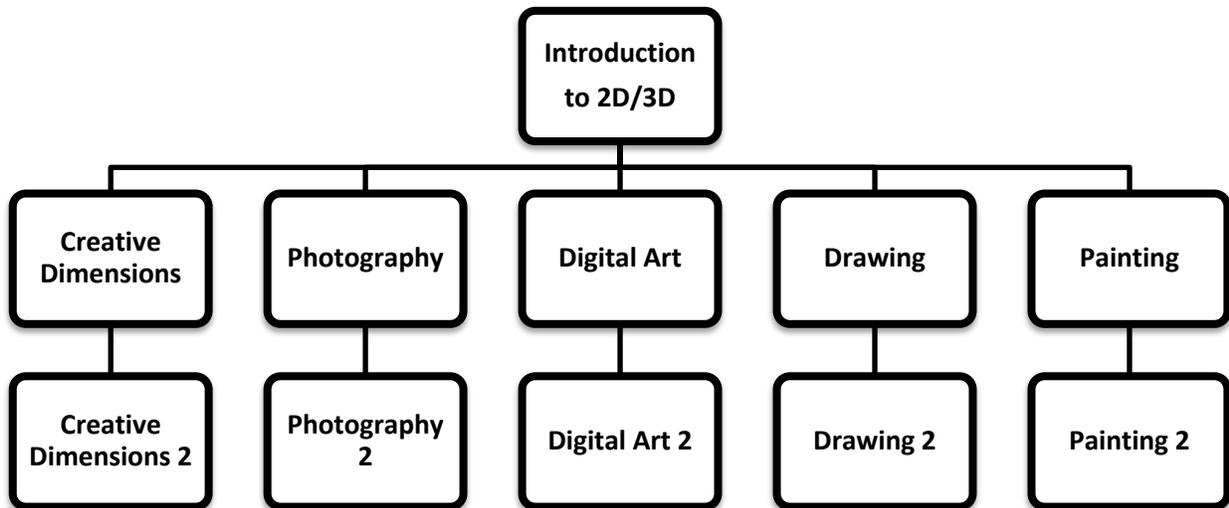
**Advanced Placement®** in the visual arts program is available for the unique student who desires enrollment in in-depth courses but has not met prerequisite requirements. To be eligible for Advanced Placement® and exemption from any prerequisites, the student must demonstrate art background competencies, media exposure, and interest maturity sufficient to succeed in selected in-depth courses of study. Applications for Advanced Placement® are available from the visual arts department chair.

**Advanced Study in Levels 2 and 3** provide students in grades 10, 11, and 12 an opportunity for further growth in any selected area through re-enrollment in a chosen subject area at a higher level. Students eligible for study in levels 2 or 3 are those who have completed the foundation course requirements and any first level, in-depth course (Digital Art & Animation, Ceramics, Drawing, Creative Dimensions, Jewelry, Painting, Photography, and Sculpture) in which they desire additional study. The student may earn no more than two additional credits in any such upper-level course through re-enrollment in level 2 and 3 except for an additional level in Photography.

**Instructor and Visual Art Department Chair Consent** is required for enrollment in Advanced Placement® Studio Art for portfolio preparation. To request enrollment permission, ask for a consent form from the visual arts department chair. The completed form must then be submitted to your counselor at the time of registration.

A donation may be requested in the visual arts department for some reusable materials kept by students in Creative Dimensions, Painting, and Jewelry courses, for photography print paper, and for those materials used in any other art class in excess of course requirements.

## ART COURSES SEQUENCE



### **Introduction to 2D/3D Art 1008**

Grades: 9-12

Prerequisites: None

Introduction to 2D/3D is an entry-level foundation course and is the prerequisite to all art classes. Emphasis is placed on creative design problem solving skills, exploration of student artistic interests and understanding design through the study of abstract and natural forms, as well as perspective. Students will experience a wide variety of mediums such as colored pencil, acrylic and watercolor paint, ink and printmaking techniques, and learn to use them properly. Emphasis is also placed on the creative application of design to the three-dimensional art forms that may include realistic and abstract sculpture, relief sculpture, clay, and plaster sculpture.

**Digital Art and Design 1 1013**

Grades: 9-10-11-12

Prerequisite: Introduction to 2D/3D Art

Digital Art introduces students to a variety of creative projects using professional imaging software. Projects will include a combination of graphic design and digital drawing: designing logos, converting handmade illustrations into electronic graphics, animating digital images and photographs, and for advanced students, using 3D animation programs to build and animate objects.

**Digital Art and Design 2 1017**

Grades: 10-11-12

Prerequisite: Digital Art and Design 1

Digital Art 2 is an advancement of Digital Art and Design 1. The class continues to allow students to complete a variety of creative projects using professional imaging software. Projects will include a combination of graphic design and digital drawing: designing logos, converting handmade illustrations into electronic graphics, animating digital images and photographs, and for advanced students, using 3D animation programs to build and animate objects.

**Digital Art and Design 3 1021**

Grades: 10-11-12

Prerequisite: Digital Art and Design 2

Digital Art 3 is an advancement of Digital Art and Design 2. The class continues to allow students to complete a variety of creative projects using professional imaging software. Projects will include a combination of graphic design and digital drawing: designing logos, converting handmade illustrations into electronic graphics, animating digital images and photographs, and for advanced students, using 3D animation programs to build and animate objects.

**Ceramics 1 1031**

Grades: 10-11-12

Prerequisite: Introduction to 2D/3D Art

Ceramics offers an in-depth opportunity to explore clay as a creative and expressive medium from hand-built to wheel-thrown vessels. The course emphasizes creative and personal solutions to merging vessel function and visual quality together in vessel design. The study includes experimentation with slip casting, Raku firing, varied clays from stoneware to porcelain, varied glazes from underglazes to over-glazes, and review of various ceramic designs.

**Ceramics 2 1033**

Grades: 10-11-12

Prerequisite: Ceramics 1

A more intense study of ceramics techniques and materials. This includes creating a traditional Raku teapot, three-of-a-kind vessel forms and experimentation with glaze, slip and underglaze application.

**Ceramics 3 1035**

Grades: 11-12

Prerequisite: Ceramics 2

A more intense study of ceramics techniques and materials. This includes creating a wall or ceiling piece, one single place setting, experimentation with carving and multicolor clay construction.

**Drawing 1 1043**

Grades: 9-10-11-12

Prerequisite: Introduction to 2D/3D Art

This course will explore right-brain drawing techniques building student graphic ability to creatively express their ideas and feelings through line and varied media. Materials used will include pencil, chalk, charcoal, water color, ink, crayons, and colored pencils. A wide range of subject matter will be studied, including the human portrait and figure, architectural and landscape perspective, wildlife, natural forms, man-made forms, still life, and study of the great masters of drawing past and present.

**Drawing 2 1045**

Grades: 10-11-12

Prerequisite: Drawing 1

A more intense study of drawing techniques and materials.

**Drawing 3 1047**

Grades: 11-12

Prerequisite: Drawing 2

A more intense study of drawing techniques and materials.

**Creative Dimensions 1 1049**

Grades: 9-10-11-12

Prerequisite: Introduction to 2D/3D Art

Suggested donation may be requested to offset materials cost.

Creative Dimensions provides hands-on exploration, not offered in other visual arts courses, of varied media, techniques, and ideas of the world's greatest dreamers and artists of yesterday and today. Experimental, creative expression choices will include work with tie die, fabric painting, batik, weaving, soft sculpture, paper marbling, papermaking, book making, printmaking, and mosaic and glasswork.

**Creative Dimensions 2 1051**

Grades: 10-11-12

Prerequisite: Creative Dimensions 1

A more intense study of glass techniques and other fibrous materials.

**Creative Dimensions 3 1053**

Grades: 10-11-12

Prerequisite: Creative Dimensions 2

A more intense study of glass techniques and other fibrous materials.

**Jewelry 1 1054**

Grades: 10-11-12

Prerequisite: Introduction to 2D/3D Art

Suggested donation may be requested to offset materials cost.

This metal-smiting course will involve the creative design and construction of functional and ornamental jewelry and related sculptural forms. Areas to be studied include: hot soldering fabrication, casting, cold fabrication, glass fusing, copper enameling, and bent wire. Metals used will include brass, copper, nickel silver, and sterling silver.

**Jewelry 2 1057**

Grades: 10-11-12

Prerequisite: Jewelry 1

Jewelry 2 is an extension of Jewelry 1.

Students will work to master the techniques learned in the first level, as well as learn stone setting in a box bezel and glass fusing.

**Jewelry 3 1059**

Grades: 11-12

Prerequisite: Jewelry 2

Jewelry 3 is an extension of Jewelry 1 and 2. As students master the techniques learned in the previous levels they will work with more complex designs, explore varied techniques, and alternative ways of forging and stone setting.

**Painting 1 1061**

Grades: 9-10-11-12

Prerequisite: Introduction to 2D/3D Art

This painting studio course will explore watercolor, egg tempera, and acrylic painting as well as a variety of other creative painting materials and techniques. Subject matter will cover landscape, still life, portrait, and abstraction, along with study of painting styles and artists from the past and present.

**Painting 2 1063**

Grades: 10-11-12

Prerequisite: Painting 1

Painting 2 provides exploration of oil painting and an opportunity to improve acrylic and/or watercolor painting skills as well as develop one's own painting style. Subject matter of study will be open for student choice.

**Painting 3 1065**

Grades: 11-12

Prerequisite: Painting 2

Painting 3 offers students the opportunity to continue breadth and depth of study in painting, as well as explore their own style through studies of historical painting styles and new and mixed media.

**Photography 1 (Black/White) 1067**

Grades: 9-10-11-12

Prerequisite: Introduction to 2D/3D Art

This basic black and white photography course offers a foundation study of 35mm camera operation, film development, and negative enlargement printing. Expressive photographic decision-making and creative darkroom techniques will be emphasized through photography of varied subject matter, including human interest candid shots at all age levels, still lifes, architecture and cityscapes, wildlife, landscape, portraiture, and action photography.

**Photography 2 (Digital) 1070**

Grades: 10-11-12

Prerequisite: Photography 1

This course gives students the opportunity to explore the rapidly growing world of digital photography. Students will learn how to use the functions of a digital camera to create their own professional-looking images as well as how to enhance them and create unique effects using the premier digital imaging software program, Adobe Photoshop.

**Photography 3 (Film & Digital) 1075**

Grades: 11-12

Prerequisite: Photography 2

This course further enhances the student's opportunity to explore the rapidly growing world of digital photography. Students will learn how to use the functions of a digital camera to create their own professional-looking images as well as how to enhance them and create unique effects using the premier digital imaging software program, Adobe Photoshop and Illustrator. Students will also create a photo-book portfolio.

**Photographic Techniques (Advanced B/W & Digital) 1078**

Grades: 11-12

Prerequisite: Photography 3

This course offers an additional level of advanced study for the seriously interested photography student. Students will be introduced to new photographic accessories, techniques, and processes through study of commercial and photojournalism photography, photo silkscreen printing, photo etching, large format poster printmaking, digital photography, and Photoshop image manipulation.

**Sculpture 1 1088**

Grades: 10-11-12

Prerequisite: Introduction to 2D/3D Art

This study explores the creative and expressive limitations and possibilities of a wide range of sculptural materials and techniques in building three-dimensional art forms. Materials used may include stone, wood, metal, clay, plaster, fiberglass, and wax. Some of the processes experimented with are modeling, carving, and waste-mold casting. Past and contemporary sculptors and their work are also part of the study.

**Sculpture 2 1090**

Grades: 10-11-12

Prerequisite: Introduction to 2D/3D Art and Sculpture 1

A more intense study of sculptural styles and materials.

**Sculpture 3 1092**

Grades: 11-12

Prerequisite: Introduction to 2D/3D Art and Sculpture 1 and 2

A more intense study of sculptural styles and materials.

Available on an independent-study format only.

**Independent Study/A.P.® Studio Art IS 1080**

Grades: 12

**Prerequisite: Instructor Approval**

Students will demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fashion design, fashion illustration, painting and printmaking. Additionally, students will develop technical skills and familiarize themselves with the functions of visual elements as they create an individual portfolio of work for evaluation at the end of the course. This course is only available via independent study and requires instructor approval.

# AVID

AVID (Advancement Via Individual Determination) is a full-year course devoted to preparing students for the college experience. Mondays and Wednesdays, students work on organization and study skills; critical thinking and discussion; and WICOR methodologies (Writing, Inquiry, Collaboration, Organization and Reading). On Tuesdays and Thursdays, students work in Collaborative Study Groups with an adult facilitator. On Fridays, students go on field trips (college visits, cultural field experiences, and/or work experience), listen to guest speakers, or participate in team building activities. This course is for elective credit. An application and interview process are required of students who are not already part of the program.

**AVID 10** F-7314, W-7315, S-7316

Grade: 10

Prerequisite: Application, Interview, Teacher Recommendation

**AVID 11** F-7317, W-7318, S-7319

Grade: 11

Prerequisite: Application, Interview, Teacher Recommendation

**AVID 12** F-7320, W-7321, S-7322

Grade: 12

Prerequisite: Application, Interview, Teacher Recommendation

# BUSINESS AND MARKETING EDUCATION

## BUSINESS and MARKETING EDUCATION

Class Name	Keyboarding Computer Applications	Introduction to Business	Personal Money Management	Accounting	Advanced Accounting	Marketing	Marketing 2	Sports & Entertainment Marketing	Business Management	IT Exploration
Grade Level	9-12	9-12	10-12	10-12	11-12	10-12	11-12	10-12	10-12	10-12
*Students successfully completing the identified courses may earn Advanced Standing Credit from a local post-secondary institution.	3			3		3				
Meets Art Standard						X				
Recommended for all AVHS students	X		X							
Recommended for students planning to work full time after graduation	X	X	X							
Recommended for students planning to attend 4-yr college, non-business major	X		X							
Recommended for students planning to attend 4-yr college, possible business major	X	X	X	Highly Recommended		X			X	

## BUSINESS SPECIFIC MAJORS

Accounting	X	X	X	X	X	X			X	
Advertising	X	X	X	X		X	X		X	
Entrepreneurship	X	X	X	X		X	X		X	X
Finance	X	X	X	X	X				X	
Human Resources	X	X	X	X		X			X	
Info Tech/Computer Sci										X
International Business	X	X	X	X		X			X	
Management	X	X	X	X	X	X	X		X	
Marketing	X	X	X	X		X	X	X	X	
Sports Marketing	X	X	X	X		X	X	X	X	

- We are in the business of preparing students for their future. All courses are beneficial to all students, college bound or not.
- Successful completion of Marketing A (Fall) satisfies the 1 credit "Art" requirement.
- Students have the opportunity to earn Articulated College Credit from a post-secondary institution by successfully completing the following full year AVHS Business Classes: Keyboarding Computer Applications, Accounting, and Marketing.

Courses that fulfill the STEM Business and Administration Path are found in the Business Department. These courses also provide the skills and curriculum needed for high school, post-secondary education, employment, and for personal use.

Business education provides ALL students with skills required to perform everyday tasks in today's world. Whether a student goes to college, technical school or gets a job after graduation, Business Education courses provide the skills for success. A student can earn articulated college credit by enrolling in Keyboard Computer Applications, Accounting, and Marketing. Business classes prepare all students for the future.

## **KEYBOARDING COMPUTER APPLICATIONS**

These are essential classes for all students. ENROLLING IN THREE TRIMESTERS OF KEYBOARDING COMPUTER APPLICATIONS PROVIDES STUDENTS WITH SUCCESSFUL, LIFELONG KEYBOARD SKILLS. Students will leave these classes with the ability to use all components of Microsoft Office, a key component for life usage and in every profession a student chooses.

***\*\*Students successfully completing all Keyboard Computer Applications courses may have the opportunity to earn Articulated College Credit from a post-secondary institution. Students should contact the course instructor for more information regarding articulation agreements and participating colleges and universities.***

### **Keyboarding 1 Computer Applications Typing Skills Essentials 1501**

Grades: 9-10-11-12 (One trimester course)

Prerequisite: None

Keyboarding 1 – Typing Skills Essentials is the first step in learning proper and successful keyboarding techniques and computer skills. Students will use Typing Club to learn proper typing technique to increase their accuracy and WPM (words per minute) speed. The skills gained in this course will prepare students effectively and efficiently for college and basic career readiness.

### **Keyboarding 2 Computer Applications Microsoft Word and Excel Essentials 1505**

Grades: 9-10-11-12 (One trimester course)

Prerequisite: Keyboarding Computer Applications Typing Skills Essentials

Keyboarding 2 – Microsoft Word and Excel Essentials students will continue the development of speed and accuracy through the use of Word and Excel. Students will gain knowledge of how to utilize MS Word including formatting a research paper, developing resumes, creating business documents, and a building a variety of mail merge documents. In Microsoft Excel students will learn how to format a worksheet, utilize formulas, understand function names, amortization schedules, and a variety of charts. Knowledge of this powerful program is a must for math and science courses and is one of the most utilized tools in the business environment.

### **Keyboarding 3 Computer Applications PowerPoint and Microsoft Access/Outlook Essentials 1509**

Grades: 9-10-11-12 (One trimester course)

Prerequisite: Keyboarding 1 Computer Applications Typing Skills Essentials, Keyboarding 2 Computer Applications Microsoft Word and Excel Essentials

Students will utilize Keyboarding 3 – PowerPoint and Microsoft Access/Outlook Essentials to explore the world of maintaining, querying and reporting data. In PowerPoint students will learn how to format slides in a presentation, incorporate pictures, and animation to enhance a presentation. The skills gained in this course will prepare students effectively and efficiently for college and career readiness. A capstone project will allow students to integrate several software packages to create professional documents for their own business. Recommended for all students who wish to truly understand the power of the software packages utilized in today's technology-oriented business world. Upon completion of Keyboarding 3 all students will have thorough knowledge of the Microsoft Office Suite. The ability to understand and create databases is in high demand in today's businesses world.

**IT Exploration 1513**

Grades: 10-11-12

Prerequisite: None

There are many careers/opportunities in the industry of Information Technology. System Administration is a career that requires the understanding of computer hardware and how computers work. It also requires an understanding of how computers connect and communicate via networks. Software and Application Development is a career that involves the understanding of programming languages and coding. Information Security is a career that involves the process of protecting information and information systems from unauthorized use. A career in Business Analytics involves the processing and analysis of raw data into useful reports and information.

**Introduction to Business 1527**

Grades: 9-10-11-12 (One trimester course)

Prerequisite: None

What is business? Why study business? This one trimester course introduces students to the world of business and marketing and prepares them for the economic roles of the consumer, worker, and citizen. This course also serves as a background for other business and marketing courses offered in high school and beyond. Areas to be researched are careers, ethics, sales and marketing, banking and finance, computers, and technology, management and communications (presentations).

**Business Management 1 1535**

Grades: 10-11-12

Prerequisite: None

Students will gain an understanding of the characteristics and organization of business and entrepreneurship. Topics will include types of business, business organization, marketing, purchasing, and the global economy. Operating a business today in the global market place, whether the local gift shop or a widget factory, with different and changing economic structure and technology will be examined. Guest speakers from related fields will add to classroom curriculum and discussion.

**Business Management 2 1536**

Grades: 10-11-12

Prerequisite: Business Management 1

This course will examine business management operations and management styles. Units will include finance, information systems, personnel management, human relations, decision-making, and business leadership. Students will solve case problems involving business situations working in management groups, and address issues in business today. Guest speakers will address related issues and add to curriculum materials.

**Sports and Entertainment Marketing 1543**

Grades: 10-11-12

Prerequisite: None

Students will have a unique opportunity to learn the behind-the-scenes careers involved in Sports/Entertainment Marketing. The course will involve studying market research techniques, the promotional mix, advertising, sales promotion, personal selling, publicity, and new product development. Students will do hands-on marketing projects such as fantasy sports or development of a new franchise/business. Students will also have the opportunity to participate in DECA.

**Accounting** F-1521, W-1522, S-1523

Grades: 10-11-12 (Full year course)

Prerequisite: None

Begin your journey as one of the highest paid entry level positions out there in business today. Think about where you shop most often... Dick's Sporting Goods, Buckle, Chipotle – they all have a score card that tells you how they are doing. Do you know if your favorite store is actually successful or not? In this hands-on class you will discover which businesses will make it and which ones will not. If you ever wanted to pursue a career in advertising, sales, fashion, finance or sports marketing, you need to understand where the company's money is being spent as well as how much it really earns. No matter what other types of businesses rise and fall, there will always be a need for accountants as they are key members of the management. Accounting provides excellent career opportunities and a strong foundation for upward career mobility. If you want to rise through the ranks of the business world, a working knowledge of accounting is a requirement.

**Advanced Accounting** F-1524, W-1525, S-1526

Grades: 11-12 (Full year course)

Prerequisite: Accounting

This course will allow the advanced accounting students the opportunity to continue into partnerships, corporations, income taxes, payroll, inventory, managerial, and cost accounting. One component of the course will be participation in the Stock Market Game in which students learn how to monitor the stock market, make investments, and study how the stock market impacts national and world economics. The course will continue the basic principles of accounting which will prepare the student for an accounting course in college with increased utilization of the computer. The use of the computer plays an integral part of the course with "hands-on" applications of accounting problems. Areas covered in this course are general ledger, accounts receivable, accounts payable, business decision-making, and spreadsheet applications. There will be an emphasis on computer simulations to aid the learning process.

***\*\*Students successfully completing Accounting and Advanced Accounting may have the opportunity to earn Articulated College Credit from a post-secondary institution.***

**Personal Money Management – Careers** F-1532

Grades: 10-11-12

Prerequisite: None

This course is designed to prepare students for life outside of high school and increase awareness of the challenges associated with the working world. Topics covered include the assessment of aptitudes and interests, goal setting, career research, planning for a career, resumes, cover letters, interviews, thank-you letters, getting the job, keeping the job, employee rights and responsibilities, paychecks, and checkbooks.

**Personal Money Management – Investing** W-1533

Grades: 10-11-12

Prerequisite: None

This part of the course is designed to prepare students for life outside of high school and increase awareness of the challenges associated with managing personal finance. Topics covered include banking services, saving for the future, planning for retirement, investing, and the basics of the stock market.

**Personal Money Management – Consumer Education** S-1534

Grades: 10-11-12

Prerequisite: None

This course is designed to prepare students for life outside of high school and increase awareness of the challenges associated with consumer decision making. Topics covered include mortgages, housing, buying a car, financing options, consumer protection, insurance, taxes, credit, and other topics associated with consumer decision making. Personal and Money Management is HIGHLY RECOMMENDED for all Apple Valley High School students in grades 10, 11 and 12.

**\*\*NOTE** – Personal Money courses and the Marketing courses can be taken out of sequence. Students can select whichever courses are of interest to them.

**Marketing Education 1A - Advertising F-1552**

Grades: 10-11-12

Prerequisite: None

Have you ever caught yourself humming an annoying jingle for a company? Why do some companies insist on creating advertisements that you believe are so bad? Do you ever wonder why a company would spend upwards of \$5 million dollars for advertising space during the Super Bowl? Join us to discover how advertising works and how easy it is to create effective advertisements. Be a part of this fun, energetic, current events, based class and you will start to learn how to communicate effectively while having the right product at the right time, the right place, and the right price.

**This class meets the Arts Standard Requirement.**

**Marketing Education 1B - Sales and Promotion W-1553**

Grades: 10-11-12

Prerequisite: None

Would you like to get what you want more often? Are you ready to earn more money and be more successful? Isn't it fun when you are able to convince others of your ideas? Could you see yourself getting a better job because you know how easy it is to sell? If you answered yes to any of these questions then this class is a must take for you. Preparation in basic selling is vital to anyone considering a career in business. Participate in informative activities that show you the steps of the sale as well as how to implement them in your everyday life. This course will provide computer-based learning applications for students while teaching important marketing and business concepts. Students will become business owners as they participate in a visual computer simulation in retailing.

**Marketing Education 1C – Marketing Plans S-1554**

Grades: 10-11-12

Prerequisite: None

Students will learn first-hand about the knowledge and skills necessary to own and operate a business as they make decisions about pricing, promotion, location, merchandising, marketing research, and much more. Students will then be responsible for creating a marketing plan for their business. This course will provide computer-based learning applications as well for students while teaching important marketing and business concepts. Students will become business owners as they participate in a visual computer simulation in business management.

***\*\*Students successfully completing Marketing Education 1A-1C may have the opportunity to earn Articulated College Credit from a post-secondary institution.***

**Podcasting 101 – 1555**

Grades: 10-12

Prerequisite: Intro to Business preferred

In an increasingly digital age, podcasts have become a popular method of storytelling. Whether listening in our cars, while preparing a meal, or as we settle in for a good night's sleep, never before have we had so many narratives at our fingertips whenever and wherever we want. This course will examine the success of podcasts like Serial, which began by following a teenager convicted of first-degree murder; This American Life, National Public Radio's look into the weird, humorous, and ironic stories that connect the nation; and The Moth, featuring true, first-hand accounts of life-changing events. After exploring the craft of podcast storytelling, students will create a mini-series examining a thematic concept of their own choosing and share the production with others

**Emerging Leaders – 1560**

Grades: 11-12

Prerequisite: None

Emerging Leaders will combine experiential and project-based learning to empower students to make a difference on their campus, community, and world. Through small and large group discussions, team building activities and community engagement, students will actively pursue topics such as collaborative leadership, leadership styles, ethics and decision making while exploring the power of risk taking, communication, and facilitation.

# CAREER DEVELOPMENT AND ENRICHMENT OPPORTUNITIES PROGRAM

The District 196 Career Development and Enrichment Opportunities Program offers a variety of courses designed to take students into the 21<sup>st</sup> century international workforce. Business and community leaders across the nation indicate that students need a sound academic background combined with the ability to apply what they learn to succeed in a global economy. The Career Development and Enrichment Opportunities Program courses can help students understand their interests and talents, select potential career fields for the future, and decide upon appropriate post-secondary learning and training opportunities.

## **Registration**

The Career Development and Enrichment Opportunities Program is offered to juniors and seniors enrolled at any of the district's high schools. Courses are filled on a space-available basis unless otherwise noted in the registration guide. Priority registration is given to seniors, followed by juniors. Students may register for any of the Career Development and Enrichment Opportunities Program courses through the regular registration process at their high school.

See the ISD 196 Career Development Registration Guide for complete course descriptions. The guide may be obtained in the Counseling Office or viewed online at [avhs.district196.org](http://avhs.district196.org)

## **Transportation**

Students may be required to provide their own transportation.

Students must purchase a parking permit from their home school in order to park on the campus where the course is taught. Students are required to turn in a Release of Liability for Students Transporting Themselves Between School Sites During the School Day (707.13P).

## **Concurrent Enrollment and Articulation Agreements**

By successfully completing courses that are articulated with post-secondary institutions, students may earn college credit or a course waiver to enable them to enroll in the next level of a college program.

\*For complete course listings, site locations and related information, see the ISD196 Career Development Registration Guide

## **COURSE OFFERINGS**

**College in Schools: Animal Science A, B and C** 7701, 7702, 7703

**Zoos, Aquariums, and Small Animal Care A, B and C** 7707, 7708, 7709

**Aviation and Ground School A, B and C** 7710, 7711, 7712

**Computer Hardware, Software and Game Design A, B and C** 7731, 7732, 7733

**Computer Networking and Cybersecurity A, B and C** 7734, 7735, 7736

**Certified Nursing Assistant A, B and C** 7743, 7744, 7745

**Emergency Services Courses**

-Emergency Medical A 7746

-Law Enforcement B 7747

-Fire Fighting C 7748

**Advanced Emergency Services C 7749**

**Forensic Science A, B, and C 7750, 7751, 7752**

**Advanced Forensic Science A, B, and C 7753, 7754, 7755**

**Hospitality Management and Event Planning 7756, 7757, 7758**

**Advanced Hospitality Management A, B, and C 7759, 7760, 7761**

**Medical and Health Care A, B, and C 7762, 7763, 7764**

**Advanced Medical and Health Care A, B, and C 7765, 7766, 7767**

**Music Production 1A, 1B, and 1C 7768, 7769, 7770**

**Vehicle Services A, B, and C 7774, 7775, 7776**

**Advanced Vehicle Services A, B, and C 7777, 7778, 7779**

**Construction and Building Trades 7780, 7781, 7782**

**Advanced Construction and Building Trades 7783, 7784, 7785**

**Mentor Seminar 8001, 8002, 8003**

**Mentor Field Experience 8005, 8006, 8007**

# ENGLISH LANGUAGE ARTS (ELA)

The English Language Arts program provides a variety of course offerings in literature, media, writing, and speaking. Each student is required to pass 12 trimester credits of English Language Arts by completing one English Language Arts course each trimester of grades 9, 10, 11, and 12. Students may choose to take additional English Language Arts classes for elective credit during their sophomore, junior, and senior year.

## Required English Language Arts Courses

NINTH GRADE	TENTH GRADE
<p><i>All year</i> English 9 <b>or</b> Honors English 9</p>	<p><i>One trimester of each</i> Literature 10 <b>or</b> Honors Literature 10 Composition 10 <b>or</b> Honors Composition 10 Speech Dynamics <b>or</b> Honors Speech Dynamics</p>
ELEVENTH GRADE	TWELFTH GRADE
<p><i>All Year</i> English 11 <b>or</b> AP® Language &amp; Composition</p>	<p><i>One trimester of each</i> English Language Arts Elective(s) (See list below) <b>or</b> <i>All year</i> AP® Literature &amp; Composition AP® Language &amp; Composition</p>

## English Language Arts Electives

**\*Students are STRONGLY recommended to select an elective course from each category to diversify their ELA experience**

Literature Electives (Reading)	Communications Electives	Writing Electives
<p>Best Selling Novels Mythology Topics in Literature</p>	<p>College in the Schools: Public Speaking EaglEye: Broadcast Journalism Interpersonal Communications Media Studies</p>	<p>College in the Schools: Writing Studio Creative Writing Research Paper</p>

In registering for next year's English Language Arts classes, students are encouraged to seek the advice of their current English Language Arts teacher. It is strongly recommended that the student balance his/her electives taking some writing, some literature, and some speaking courses within the high school years. Because some colleges and universities are not accepting certain English Language Arts courses, it is very important that students and parents consult with the student's prospective school.

**Speech Dynamics 2015**

Grades: 10-11-12

Prerequisite: None

In this public speaking class, students will prepare and deliver several informative and persuasive speeches for an audience. Course content will provide a review of fundamental speech preparation methods and will then focus on research, delivery, use of visual aids, and persuasion.

**Honors Speech Dynamics 2137**

Grades: 10-11-12

Prerequisite: None

The ability to speak to groups is vital for academic, business, and community life. This course is designed for students who are generally comfortable with the basics of speaking and would like to develop informative and persuasive speaking skills at an accelerated rate and to a more advanced level.

**Composition 10 2019**

Grades: 10-11-12

Prerequisite: None

Students in this course will develop writing abilities necessary for clear, effective written communication. Each student will work on his/her writing process including prewriting, drafting, revising, editing, and publishing. Writing styles include narrative, persuasive and research.

**Honors Composition 10 2151**

Grades: 10-11-12

Prerequisite: None

Honors Composition emphasizes the writing styles used in upper-level English Language Arts classes, including narrative, persuasive and research. This class is designed for students who are prepared for a rigorous writing experience.

**Literature 10 2023**

Grades: 10-11-12

Prerequisite: None

Students learn to read more closely and get more out of their reading through inquiry units of study. Emphasis is on analysis of text. Responsive writing is incorporated into each unit.

**Honors Literature 10 2027**

Grades: 10-11-12

Prerequisite: None

This advanced course examines literature in all its forms. The course emphasizes close reading of literature, and students should be strong readers who are ready for challenging assignments. Responsive writing is incorporated into each unit.

**English 11 F-2040, W-2041, S-2042**

Grade: 11

English 11 is a year-long course designed to develop the skills students need to become college and career ready. The class concentrates on reading critically, writing clearly for a variety of audiences and purposes, speaking and listening. Students will read classic and contemporary texts as well as non-fiction. They will engage in small and large group discussions as well as develop and present more formal multimedia presentations. Additionally, students will conduct research and present findings while maintaining appropriate citation style. This class adheres to the Minnesota State Language Arts Standards for Grades 11-12.

**Best Selling Novels 2047**

Grades: 11-12

Prerequisite: None

This is a course where students will read high interest fiction and non-fiction similar to what readers find on *The New York Times* bestseller list. Since most of the reading will be done during class time, students must be independent readers willing to read silently for 45-minute blocks. Students are evaluated through reading reflections, group discussion and individual projects. An average high school reading ability is required.

**Mythology 2052**

Grades: 10-11-12

Prerequisite: None

This course emphasizes the classical mythology of Greece through the study of its poetry, prose, and drama. The creation myths, the gods, the heroes, and the Trojan War are examined. Comparisons are made with other mythologies such as Native American, Asian, Norse, and Egyptian. This class is an excellent elective for the college-bound student, as well as those who are vocationally oriented.

**Topics in Literature: 2177**

Grades 11-12

Prerequisite: None

Topics in Literature explores various subjects of the class's choosing. Topics may include: war, romance, mystery, science fiction, technology, social justice, etc. The instructor and students will work together to select a wide range of suitable texts for each topic. Students can expect to read 3 novels and various poems and short stories over the course of the trimester and respond to texts through discussion, written assignments and/or projects.

**College in the Schools – Writing Studio 2068**

Grade: 11-12

Prerequisite: Students should have a GPA of 3.0 or better

This course introduces general writing strategies encountered at the college level. Through frequent practice and feedback, students will learn to see writing as a tool for learning and a vehicle for expression of ideas and informed views. Students will also learn a working vocabulary for discussing writing. Typical assignments will include informal writing derived from personal experience, response to readings, analysis and evaluation of sources on the web and in print, and formal papers that increasingly make use of sources, as well as close reading of texts. The course emphasizes the active practice of writing, from gathering ideas for a paper, through the drafting of papers, to careful editing.

**Interpersonal Communication 2090**

Grades: 11-12

Prerequisite: Speech Dynamics

Interpersonal communication centers upon the communication skills key to maintaining successful, personal relationships. Whether communication involves parent-child, teacher-student, or friend-friend relationships, knowing how to deal with problems, share ideas, carry on conversations, and work well with others is central to life. Special units, including listening skills, gender differences in communication, and problem-solving help students to deal with interpersonal relationships more effectively. **This course has not been approved by the NCAA Clearinghouse.**

**Media Studies 2081**

Grades: 11-12

Prerequisite: None

This course is the study of mass and multi-media (magazines, newspapers, radio, film, television, and computer-based electronic media) and their influence upon our lives. Media Studies gives the student the opportunity to critically evaluate the forms of communication that control as well as reflect the beliefs, values, and actions of the public. Through study of various media and their methods, the ability to become discerning consumers is developed. This course will help provide students with critical skills to become objective and independent thinkers. Evaluation will be through written assignments and creative projects. **This course has not been approved by the NCAA Clearinghouse.**

**Research Paper 2116**

Grade: 12

Prerequisite: English 11 or AP® Language

This course, strongly recommended for all college-bound students, will demonstrate how to investigate a topic and how to construct a research paper. All areas of the research paper will be covered from choosing a topic to completing the final paper. Students will also create a PowerPoint presentation. This course is for 12<sup>th</sup> grade students only.

**Creative Writing 2120**

Grades: 11-12

Prerequisite: None

This writing course is for students with an interest in the creative writing process and in applying their own imaginations to the genres of fiction, nonfiction and poetry. Students will develop skills in descriptive and sensory writing, as well as experiment in a variety of creative writing formats. This course requires a commitment to writing and a willingness to use one's creativity.

**College in the Schools: Public Speaking 2140**

Grades: 11-12

Prerequisite: B+ or above in Speech Dynamics or teacher recommendation

This is a college course open to students in the top 50% of their class. This course is performance based with writing and research skills as a major component. As college students, the class members will be held to the same rigor found in an introductory college course in public speaking. The students will demonstrate skills in impromptu speaking, informative speaking, and persuasive speaking. The rules and expectations of the University of Minnesota govern this course. This College in the Schools: Public Speaking course will provide the opportunity for students to engage in a college experience while remaining at Apple Valley High School. Students who complete the course successfully earn three semester credits from the University of Minnesota.

**Advanced Placement® Language and Composition F-2161, W-2162, S-2163**

Grade: 11-12

Prerequisite: None

Advanced Placement® Language and Composition is a course designed to train students to become skilled readers of prose written in a variety of historical periods, academic disciplines, and rhetorical contexts. The course will also give students the practice and helpful criticism necessary to become flexible writers who can compose in a variety of modes for a variety of purposes. The course assumes that students have already developed a command of standard English grammar and emphasizes expository, analytical, and argumentative essays, all of which should contribute to making participants more mature thinkers and writers. The course will prepare students for the optional Advanced Placement® Exam in Language and Composition. Students taking the course must register for all three trimesters.

**Advanced Placement® Literature and Composition F-2076, W-2078, S-2080**

Grade: 12

Prerequisite: None

Advanced Placement® Literature and Composition is a course designed for students with special interest and ability in reading, analyzing, and writing about literature. Students will study selected poems, short stories, plays, and novels in depth. Emphasis will be placed on developing the critical reading, thinking, and writing skills used in college and on the Advanced Placement® Exam in Literature and Composition. Students will be expected to discuss the selected works, write critical essays, and complete a research paper. Students taking this course must register for all three trimesters.

**EagleEye Broadcast Journalism** F-2174, W-2175, S-2176

Grades: 10-11-12

Prerequisite: Media Studies recommended. If numbers require, there may be an application process.

This class will create broadcast productions to be televised throughout AVHS. Students will write news stories, edit copy, and deliver for the camera. Students will gain technical skills needed to create a quality program. This class receives one English Language Arts credit per trimester. **This course has not been approved by the NCAA Clearinghouse.**

**Academic Literacy 11/12 (Reading)** F-2011, W-2012

***Prerequisite: Teacher Recommendation***

The purpose of this course is to offer 11th and 12th grade students the chance to develop academic literacy skills to better prepare them for success in school. In addition to learning about the process and mechanics of reading (vocabulary, comprehension, and fluency), the class will foster student engagement and inquiry through independent reading and cooperative learning activities. Students will not register for this class. Students will be placed in this class if warranted. **This course has not been approved by the NCAA Clearinghouse.**

**SAU-Comp 2157**

Grade 10-11-12

***Prerequisite: Teacher Recommendation***

This course is intended for those students who have demonstrated a need to improve their writing skills. Students should not register for this course, but will be placed into the course if warranted. **This course has not been approved by the NCAA Clearinghouse.**

# ENGLISH LANGUAGE DEVELOPMENT

## English Language Development (ELD)

ELD Courses have not been approved by the NCAA Clearinghouse.

### English Learner (ELD) Courses

Grades: 9-10-11-12

Prerequisite: English learner assessment and permission from the EL Department for all courses.

The English Language Development (ELD) program is a series of courses designed to help students whose first language is not English improve their proficiency in listening, speaking, reading, and writing. Depending on their level, students take one to three EL classes. In addition, students at lower levels of proficiency may earn social studies credits in sheltered Civics and U.S. History classes. They may also gain basic math skills in Math Skills Development.

An ELD study hall is available for any student enrolled in the program, or with department permission.

The Transitional English for Determined Students (TEDS) class is an elective credit designed to help students develop academic independence through learning different studying and organizational techniques. The class will also discuss goals, careers and help in preparing for college.

Student level, and exiting from the program, is based on test scores, success in other classes, and teacher judgment. The goal is for students to be able to compete academically with native speakers of English.

All AVHS ELD students with a WIDA level of 3.0 or higher will be encouraged to earn a minimum of six English Language Arts Department credits, in addition to the English Language Arts credits earned in the AVHS EL program.

### ELD CORE COURSES

**ELD 1 Reading/Writing** F-7214, W-7215, S-7216

**ELD 2 Reading/Writing** F-7217, W-7218, S-7219

**ELD 3 Reading/Writing** F-7224, W-7225, S-7226

**ELD 4 Literature and Composition** F-7241, W-7242, S-7243

**ELD Math** F-3642, W-3643, S-3644

**ELD Citizenship and Government** F-7261, W-7262, S-7263

**ELD U.S. History** F-7264, W-7265, S-7266

### OTHER Elective Courses

**ELD 1 Language Development** F-7211, W-7212, S-7213

**ELD 2 Language Development** F-7221, W-7222, S-7223

**ELD TEDS 9** 7291

**ELD TEDS 10-11** 7293

**ELD TEDS 12** 7292

**ELD Study Hall** (no credit) F-7201, W-7202, S-7203

# FAMILY AND CONSUMER SCIENCE

The unique focus of Family and Consumer Science is the role of the family as it relates to the individual, family, employment, and community. This is a program designed to provide active participation and hands-on activities for young men and women to develop the knowledge, skills and behaviors needed for:

- Strengthening the well-being of individuals and families
- Becoming responsible citizens and leaders
- Promoting optimal nutrition and wellness
- Managing resources for individuals and families
- Balancing personal, home, family, and work lives
- Successful life management, employment, and career development
- Functioning as providers and consumers of goods and services
- Appreciating human worth and accepting responsibility
- Using critical and creative thinking skills to address problems in diverse family, community, and work environments
- Exploring career opportunities related to FACS

## ELECTIVE CLASSES and their relation to Career Areas of Interest

Food, Nutrition & Hospitality Industry	Design and Arts Industry	Family, Child & Social Services Industry	Career and College Prep
Everyday Cooking	Interior Design 1	Child Development 1, 2 and 3	Independent Living
Gourmet Cooking	Interior Design 2	Newborn, Infant and Toddler Dev.	Intro to Teacher Education
FIT Cooking	All Cooking Courses	Building Healthy Relationships	Building Healthy Relationships
Global Cuisine			

## COOKING CLASSES

### Everyday Cooking 2501

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

Are your cooking skills limited to macaroni and cheese from a box or putting a frozen pizza in the oven? Join us to make several food labs using just a few ingredients and be surprised at your results. Learn to cook from more than just a box. You will gain up-to-date information about healthy eating, food preparation, and food safety and sanitation. Through hands-on involvement, basic cooking skills will be put into practice as you prepare and eat healthy snacks, quick breads, soups, salads, casseroles, sweet treats and main entrees.

### **Gourmet Cooking 2504**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

What is there to eat? Using basic cooking principles and hands-on cooking experiences, you will explore units about chocolate, yeast breads, eggs, cheese, fruits and vegetables. This class may be for you if you have a sweet tooth and a flair for creative foods. Bring your own imagination to this class and a love for food.

### **FIT (Fitness and Individual Training) Cooking 2505**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

Cook and eat to gain that competitive edge by supporting your **Fitness and Individual Training** plan. In this class you will be preparing foods that will help you refuel and recover post-workout, cook meals that will promote muscle development and select snacks that will keep your energy level steady before, during, and after working out. FIT Cooking is designed to help you improve your health and athletic performance through proper nutritional intake while learning to prepare the foods which support your personal and team training goals. Energy shakes, whole-grain warm up foods, pasta and proteins, heart healthy grains and energy rich food are among the units of study and cooking. Eat to be FIT! This course is recommended for students who are recreational, individual and/or team athletes. Note: A contribution is requested to cover food supplies for each student. Course content supports STEM initiatives and MCA math and science standards.

### **Global Cuisine 2507**

Grades: 10-11-12

Prerequisite: Successful completion of Everyday Cooking, FIT Cooking, and/or Gourmet Cooking.

Suggested donation of \$30 to offset material costs.

Take a trip around the world! In this course students will learn how to prepare foods from a variety of different cultures and countries. If you are interested in creating, learning about cultures, and tasting foods from around the globe, including South America, Europe, Africa, and Asia, etc, then this is the course for you. Plus, students will participate in an authentic experience learning how to prepare, market, and sell snacks by designing and operating a small business.

## **INTERIOR DESIGN COURSES**

### **Interior Design 1 2540**

Grades: 9-10-11-12

Prerequisite: None

Information gained in this class will enable you to plan and decorate a home or apartment to meet today's lifestyle needs. Activities will focus on housing needs, design elements and principles, floor plans, furniture selection, window treatments, and accessories. Hands-on learning activities are a big part of this course. A final project will consist of planning and decorating an apartment. **This class meets the Arts Standard Requirement.**

### **Interior Design 2 2541**

Grades: 10-11-12

Prerequisite: Interior Design 1

This class is designed to give you a broad overview of information needed to plan, build, and decorate a home. The content explains how and why the intended functions of a home are used to determine the home's construction and decoration. Interior and exterior construction, decoration, and landscaping are explored. Participation through individual projects, design teams, resource people, and a field trip are an important part of this class.

**\*\* Students successfully completing Interior Design 1 and Interior Design 2 may have the opportunity to earn Articulated College Credit from a post-secondary institution.**

## FAMILY LIFE COURSES

### **Newborn, Infant and Toddler Development 2532**

Grades: 9-10-11-12

Prerequisite: None

Do you think that someday you would like to work with children or even have children of your own? In this class you will examine the important issues related to the healthy development of children from conception through birth and delivery, and up to age three. Safe, safer and safest forms of contraception will be discussed. Multiple births and children with special needs will also be studied. Project options include the "Real Care Baby" (not required). Also guest speakers will be brought in such as a neonatal nurse, OBGYN, pediatrician, daycare provider or other professionals. Whether you are interested in a child-related career, or in becoming a parent yourself one day, this course offers valuable information for everyone.

**\*\* Students successfully completing Newborn, Infant and Toddler Development may have the opportunity to earn Articulated College Credit from a post-secondary institution. Students should contact the course instructor for more information regarding articulation agreements and participating colleges and universities.**

### **Child Development 1 2509**

Grades: 10-11-12

Prerequisite: None

If you enjoy working with children, this is the class for you. This course offers you the opportunity to have fun and experience the unique relationship of working with three, four, and five-year-old children in an actual play school setting. The knowledge of the development of preschoolers will be used to plan, develop, and implement a safe, creative, child-centered environment for the children attending. This is an excellent class for those considering a career working with children.

### **Child Development 2 2551**

Grades: 11-12

Prerequisite: Child Development 1

If you enjoyed working with the preschool children in Child Development 1, then this class is for you! This course builds upon the principles of growth and development as does Child Development 1. As a continuation, students will be given opportunities to increase their understanding of preschoolers by planning developmentally appropriate curriculum and developing guidance skills through working with children in our playschool setting. The playschool will be a large part of the class, but other areas of study include school-aged children and children with special needs

**\*\* Students successfully completing Child Development 1 and Child Development 2 may have the opportunity to earn Articulated College Credit from a post-secondary institution.**

### **Independent Study Child Development 3 IS 2509**

Grades: 12

Prerequisite: Instructor Approval and successful completion of Child Development 1 and 2

Students who have shown tremendous success and leadership in Child Development 1 and 2 can consider this course. In addition to working with preschool-aged children, students will study theorists and study the stages of human development. This course is only available via independent study and requires instructor approval.

### **Building Healthy Relationships 2524**

Grades: 10-11-12

Prerequisite: None

Do your parents, boyfriend, girlfriend, significant other "got you down?" Are you trying to figure out your identity or where you fit in? Develop skills to establish healthy relationships with yourself and those around you. Topics covered in this course include interpersonal communication skills, dating, violence-free relationships, navigating conflicts, making good decisions for yourself and improving relationships with everyone around you.

## CAREER FOCUS COURSES

### **Introduction to Teacher Education 2531**

Grades: 10-11-12

Prerequisite: None

This program involves the linking of high school students with elementary school students in a caring and supportive relationship. Following a brief training period, students spend the remainder of the trimester working with elementary school children. The high school and elementary school students meet daily at the cooperating elementary school. The older students may help a child with academic work or may spend more personal time with the child reading a story, working on an activity, or simply listening to what has been happening in the child's life. This program will provide valuable experience for students considering child-related careers. **NOTE: Students must provide their own transportation to and from the elementary school.**

### **Independent Living: Life 101 2521**

Grades: 10-11-12

Prerequisite: None

Do you have the knowledge and skills to manage your life after high school? Do you know how to oversee a bank account, credit card, or obtain a loan for a car? Can you make a budget, shop for food, cook a decent meal and become college/career ready? How will you pay for insurance, utilities, or an apartment? The list goes on and on.... This course will help you take stock of your life's decisions for a career, college, personal relationships, finances, and other critical choices. There will be hands-on projects and guest speakers to help you learn the basics of being an adult.

# MATHEMATICS

## MATHEMATICS CURRICULUM

	9th Grade	10th Grade	11th Grade	12th Grade
<ul style="list-style-type: none"> <li>• <b>Level 1:</b> For students who have completed an Algebra 1 course, but have not completed a high school Intermediate Algebra course.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Intermediate Algebra</b></li> <li>• Fast-paced Intermediate Algebra (Teacher Approval)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Geometry</b></li> <li>• AP<sup>®</sup> Comp Science Principles</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Algebra 2</b></li> <li>• AP<sup>®</sup> Computer Science*</li> <li>• AP<sup>®</sup> Comp Science Principles*</li> </ul>	<ul style="list-style-type: none"> <li>• Math Modeling with Applications</li> <li>• Precalculus</li> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Computer Science *</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Level 2:</b> For students who have accelerated a year in math and who have completed a high school Intermediate Algebra course.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Honors Geometry</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Honors Algebra 2</b></li> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Computer Science*</li> <li>• AP* Comp Sci Principles*</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Honors Precalculus</b></li> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Computer Science</li> <li>• AP<sup>®</sup> Comp Science Principles*</li> </ul>	<ul style="list-style-type: none"> <li>• Honors Precalculus</li> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Calculus AB</li> <li>• AP<sup>®</sup> Calculus BC</li> <li>• AP<sup>®</sup> Computer Science *</li> <li>• AP* Comp Sci Principles*</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Level 3:</b> For students who have accelerated two years in math and have completed a high school Intermediate Algebra and Honors Geometry course.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Honors Algebra 2</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Honors Precalculus</b></li> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Computer Science*</li> <li>• AP<sup>®</sup> Comp Science Principles</li> </ul>	<ul style="list-style-type: none"> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Calculus AB</li> <li>• AP<sup>®</sup> Calculus BC</li> <li>• AP<sup>®</sup> Computer Science *</li> <li>• AP<sup>®</sup> Comp Science Principles*</li> </ul>	<ul style="list-style-type: none"> <li>• AP<sup>®</sup> Statistics</li> <li>• AP<sup>®</sup> Calculus AB</li> <li>• AP<sup>®</sup> Calculus BC</li> <li>• AP<sup>®</sup> Computer Science *</li> <li>• CLA/Diff Eq.</li> <li>• Multivariable Calculus</li> <li>• AP<sup>®</sup> Comp Sci Principles</li> </ul>

\*Courses in bold meet typical graduation requirements

\*Introduction to Computer Science (not a math credit) can be taken during any year.

\*AP<sup>®</sup> Computer Science and AP<sup>®</sup> Computer Science Principles are elective courses and do not qualify as one of the math credits required for graduation.

### Characteristics of a Student Well-Suited for Honors Math Courses

1. Has experienced high achievement in past courses without undue stress; has not depended on rote learning or tutoring.
2. Is creative. Can think of things to try, or use original methods, when faced with a problem situation.
3. Readily applies learned principles to new situations. Can solve novel problems. Responds well to guided discovery.
4. Responds positively to challenging situations. Shows persistence in searching for solutions. Finds satisfaction in independently solving a problem rather than accepting another person's solution or help.
5. Likes to analyze, generalize, derive, prove, abstract; to investigate relationships and alternative solutions.
6. Has a strong intuitive sense for the subject matter. Sorts out key relationships quickly.
7. Shows a high degree of interest and motivation. Is intellectually curious and a critical thinker.
8. Works well independently. Seeks help only when necessary. Does not require detailed or repeated teacher directions in order to proceed.
9. Shows above average ability in oral and written expressions.

National and state reports from mathematics and education organizations recommend that all students take four years of mathematics in grades 9-12. Colleges and universities require three or four years of high school level mathematics. Many vocational and technical school programs require a math background. To prepare for post-secondary studies, students benefit from a sequential plan of mathematical coursework that is appropriate for them. With this in mind, the mathematics department offers sequential courses differentiated by student abilities. The District 196 mathematics curriculum addresses concerns that have been identified in mathematics education. The textbook series provides materials that use current technology and real-life applications, incorporates reading, integrates with other subjects, and presents material needed by all students in the future. **Success in any mathematics course requires a solid background from previous coursework, proper study skills, and a commitment to daily work.**

To fulfill graduation requirements all students are required to earn nine trimester credits, three of which are earned in grade nine. Students entering Apple Valley High School as 9th graders and who are currently enrolled in a middle school in the district will be enrolled in one of three levels based on the recommendation of the Mathematics Department: Intermediate Algebra, Honors Geometry or Honors Algebra 2. This recommendation includes input from a grade eight mathematics teacher, mathematics grades and standardized test scores. Students who will be in 10th, 11th, or 12th grade next year will enroll in courses based upon the student's mathematics teacher's recommendation and mathematics achievement. Note: Students enrolled in the following courses are required to have a graphing calculator. The TI83 or 84 series is strongly recommended.

- Algebra 2
- Honors Algebra 2
- Technical Mathematics
- Precalculus
- Honors Precalculus
- Advanced Placement® Statistics
- Advanced Placement® Calculus AB
- Advanced Placement® Calculus BC
- College Linear Algebra and Differential Equations

### **Intermediate Algebra** F-3505, W-3506, S-3507

Grades: 9-10

Prerequisite: Algebra 1

Intermediate Algebra is a study beyond the linear topics found in Algebra 1. Topics include systems of equations, quadratic equations, polynomials, data and statistics, probability and simulation, transformations, and connections to geometry. Students must have a scientific calculator. We recommend the TI-30XIIS. (Graphing calculators are NOT needed.) \*This is a year-long course. Students should register for all three courses.

Note: A student who fails Intermediate Algebra fall trimester will remain in the class winter trimester, however, an elective class (or study hall) may be dropped and the student may be placed in a supplemental math class. The supplemental math class will be an elective credit; it will not count as a required math credit. This scenario will repeat itself spring trimester for those who fail the winter Intermediate Algebra course. Students in the supplemental class T2 who earn a "C-" grade or higher in the mainstream math class, can opt out of the supplemental class in the spring.

### **Geometry** F-3521, W-3522, S-3523

Grades: 10-11-12

Prerequisite: Intermediate Algebra

Geometry integrates standard approaches, coordinates, transformations, and real-world applications making use throughout of the algebra students know. Other topics include: measurement, formulas, similarity, logic, and trigonometry. Students must have a scientific calculator. We recommend the TI-30XIIS. (Graphing calculators are not required for this course.) \*This is a year-long course. Students should register for all three courses.

### **Honors Geometry** F-3525, W-3526, S-3527

Grades: 9-10

Prerequisite: Intermediate Algebra

Geometry integrates standard approaches, coordinates, transformations, and real-world applications making use throughout of the algebra students know. Other topics include: measurement, formulas, similarity, logic, and trigonometry. This course moves faster than the Geometry course. Students must have a scientific calculator. We recommend the TI-30XIIS. (Graphing calculators are not required for this course.) \*This is a year-long course. Students should register for all three courses. NOTE: Students need to earn a C- or higher to remain in Honors level math.

**\*Please review the "Characteristics of a student well-suited for Honors Math Courses" at the beginning of the mathematics section.**

**Algebra 2** F-3529, W-3530, S-3531

Grades: 11-12

Prerequisite: Intermediate Algebra and Geometry

This second year of algebra will emphasize reading, problem solving, and real-world applications. Topics include: linear, exponential, quadratic, logarithmic and trigonometric functions and matrices. Technology will be integrated throughout the course. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses.

**Honors Algebra 2** F-3539, W-3540, S-3541

Grades: 9-10-11

Prerequisite: Intermediate Algebra and Geometry with strong performances, or Honors Geometry

This second year of algebra will emphasize reading, problem solving, and real-world applications. Topics include: linear, exponential, quadratic, logarithmic and trigonometric functions and matrices. Technology will be integrated throughout the course. This course moves faster than the Algebra 2 course. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses.

**\*Please review the “Characteristics of a student well-suited for Honors Math Courses” at the beginning of the mathematics section.**

**Math Modeling and Applications** F-3601, W-3602, S-3603

Grades: 12

Prerequisite: Algebra 2

Math Modeling and Applications will begin by building estimation and problem-solving skills. The course will cover topics of number theory, algebra, geometry, consumer mathematics, financial management, measurement, probability, statistics, and trigonometry. This is a year-long course for students who want to continue with mathematics, but **are not ready for the rigor** of AP<sup>®</sup> Statistics, CAPS, or Precalculus. A graphing calculator is required for this course. The TI83 or 84 series is recommended. **This course has not been approved by the NCAA Clearinghouse.**

**Precalculus** F-3587, W-3588, S-3589

Grades: 11-12

Prerequisite: Algebra 2

Precalculus topics include a review of the elementary functions, advanced properties of functions, polar coordinates, complex numbers, and introductions to the derivative and integral. Recursion, combinatorics, and vectors are also included. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \* This is a year-long course for students who intend on pursuing a post-secondary course of study with a math/science focus. Students should register for all three courses.

**Honors Precalculus** F-3583, W-3584, S-3585

Grades: 11-12

Prerequisite: Honors Algebra 2

Course topics include a review of the elementary functions, advanced properties of functions, polar coordinates, complex numbers, and introductions to the derivative and integral. Vectors are also included. This course moves faster than the Precalculus course. A graphing calculator is required for the course. The TI83 or 84 series is recommended.

\*This is a year-long course. Students should register for all three courses.

**\*Please review the “Characteristics of a student well-suited for Honors Math Courses” at the beginning of the mathematics section.**

**Extended Algebra with Trigonometry** F-3514 , W-3515 , S-3516 ,

Grades 11-12

Prerequisite: Must have instructor approval to enroll in this course.

**Advanced Placement® Calculus AB** F-3591, W-3592, S-3593

Grade: 12

Prerequisite: Honors Precalculus or Precalculus

In this course, students will study rates of change, along with limits of functions. Formal differentiation and its application to real-world problems will be included. Students will study integration to find the area under a curve and its applications. The calculus of trigonometric, exponential, and logarithmic functions will also be studied. This course is equivalent to one semester of college calculus. Many majors in post-secondary education require some mathematics and the AB exam credit would satisfy the requirement. A graphing calculator is required for this course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses and are expected to take the Advanced Placement® exam at the end of the year.

**\*Please review the “Characteristics of a student well-suited for Honors Math Courses” at the beginning of the mathematics section.**

**Advanced Placement® Calculus BC** F-3608, W-3609, S-3610

Grade: 12

Prerequisite: Honors Precalculus

Students pursuing careers in engineering or the physical sciences would benefit from the BC level course. Topics include those in Calculus AB in addition to parametric, polar and vector functions, polynomial approximations, and series. This course is equivalent to two semesters of college calculus. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses and are expected to take the Advanced Placement® exam at the end of the year.

**\*Please review the “Characteristics of a student well-suited for Honors Math Courses” at the beginning of the mathematics section.**

**Advanced Placement® Statistics** F-3611, W-3612, S-3613

Grades: 10-11-12

Prerequisite: Completed Honors Algebra 2, dual enrollment with Honors Algebra 2, Completed Algebra 2 with teacher approval

This course is an introduction to the practice of statistics. This Advanced Placement® class covers data collection, analysis and displaying procedures, simulations, probability, distributions as well as surveys and census taking methods. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses and are expected to take the Advanced Placement® exam at the end of the year.

**College Linear Algebra and Differential Equations (CLA/Diff Eq)** F-3657, W-3658, S-3659

Grades: 9-10-11-12

Prerequisite: AP® Calculus BC or equivalent

This course is an introduction to college linear algebra and to differential equations and is intended for students who have successfully completed Calculus BC or an equivalent course. Linear Algebra topics include systems of linear equations, matrices, determinants, vector spaces, linear transformations and eigenvalues, eigenvectors, etc. Selected applications and use of technology will be included. Coverage in the area of differential equations includes basic definitions, ideas, and terminology of ordinary differential equations, as well as problem-solving techniques. Specific topics covered include solutions and applications of first-order differential equations, solutions of linear differential equations of higher order, second-order differential equations, and systems of linear differential equations. A graphing calculator is required for the course. The TI83 or 84 series is recommended. \*This is a year-long course. Students should register for all three courses.

## **Multivariable Calculus** F-3651, W-3652, S-3653

Grade: 12

Prerequisites: Successful completion of AP<sup>®</sup> Calculus BC and AP<sup>®</sup> exam or instructor recommendation

This course is designed for the gifted math student. It covers the same material as a college-level Multivariable Calculus class, including the same rigor, expectations, and special technological skills found in many 2<sup>nd</sup> and 3<sup>rd</sup> year college courses. Topics covered include a brief review of infinite series and parametric and polar coordinates, vector geometry and 3-dimensional graphing techniques, vector-valued functions, differentiation of several variables, multiple integration, line and surface integrals, and fundamental theorems of vector analysis. Students will also learn to use the mathematical software package Maple to aid in their understanding of the material and to complete assignments and projects. We will use graphing calculators extensively. The TI-83 or TI-84 series is strongly recommended. The TI-89 may be used in this class. Students pursuing careers in engineering and the physical sciences would benefit from selecting this course. This is a year-long course. This course is shared with EVHS students and will be taught at either AVHS or EVHS as determined by enrollment. **If the course is offered at EVHS, students are responsible for their own transportation to and from that school.**

### **Computer Science Programs**

**\*NOTE – These courses are math electives and do not qualify as one of the math credits required for graduation from Independent School District 196.**

## **Introduction to Computer Programming** 3524

Grades: 9-10-11-12

Prerequisite: None

The Introduction to Computer Programming course will expose students to basic programming skills. Students will learn code design and how to use Java language for programming the computer. They will also become familiar with displaying information on the screen, using variables, and designing loops. **Note: This course is a math elective and does not qualify as one of the math credits required for graduation. Note: This course is not a NCAA core class.**

## **Advanced Placement<sup>®</sup> Computer Science** F-3654, W-3655, S-3656

Grades: 10-11-12

Prerequisite: Honors Geometry or Geometry

AP<sup>®</sup> Computer Science is similar to an introductory computer programming course that you would find at many colleges. The course is taught with an emphasis on program design and the Java programming language. The primary topics include: basics of computer architecture; binary representations; use of variables; line-oriented input/output; assignment statements; conditional statements; looping constructs; arrays; methods and parameter use; using the Java Standard Library; object-oriented construct (instantiation inheritance, interfaces); simple searching, simple sorting; basics of recursion. Students will spend the majority of their time designing, coding and testing their own applications. Several student projects will be assigned throughout the school year. This course prepares the student for the Advanced Placement<sup>®</sup> exam for possible college credit. This is a year-long course – students should register for all three trimesters of the course. Success in this course requires the ability to think abstractly and in an organized fashion, and have a strong personal work ethic. **Note: This course is an elective and does not qualify as one of the math credits required for graduation. Note: This course is not a NCAA core academic class.**

**Advanced Placement® Computer Science Principles** F-3663, W-3664, S-3665

Grades: 10-11-12

Prerequisite: Intermediate Algebra

AP® Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem-solving and real-world applications, AP® Computer Science Principles prepares students for college and career. **Note: This course is an elective and does not qualify as one of the math credits required for graduation.**

**Note: This course is not a NCAA core academic class.**

**Mobile Apps Development** F-3660, W-3661, S-3662

Grades: 10-12

Prerequisite: None

The Mobile Applications Development Computer Science course is a class in which students will learn another programming language, explore Graphical User Interfaces (GUI), and create applications for general use. This course is designed to provide students with a real-life experience in the full evolution of Application Development: conception, definition, creation, testing, deployment, and support. Students will learn the Objective C programming language and the Xcode Integrated Development Environment tool set. There will be a focus on the Graphical User Interface for the iPad, iPhone and Mac platforms. This course will require students to find a working professional (the User) who needs an Application developed. Students will design an App which meets the requirements of the User and get agreement that the design meets the requirements of the User. Finally, the student will implement, test and deliver the App to the User. The first trimester will focus on learning the new language and development tool set. The second and third trimesters will focus on specifications, design, development, testing and delivery of the Application by a team of students. \*This is a year-long course. Students should register for all three courses. **Note: Mobile App Development does not count as a math credit towards graduation, is not a NCAA core academic class, and is not accepted as a math credit by colleges and universities.**

# MENTOR PROGRAM

## *"Partnership with Professionals"*

***Beyond the classroom, learning opportunities are boundless. This premier program offers two courses for college bound students.*** The Mentor Program provides students the opportunity to explore the college selection process, their potential careers of interest, their aptitude for those careers, and to eventually be mentored by a professional in a selected field of interest. **Students can opt to only take the first course, Seminar, or both Seminar and Field Experience.** Seminar is an opportunity to explore the college and career options best suited for each individual. Seminar must be successfully completed in order for a student to advance to Field Experience, which is designed to shadow with a professional in the field. **A partial listing of the many potential fields is listed below.**

Accounting	Communications	Fine Arts	Law	Photography
Advertising	Computer Science	Genetics	Law Enforcement	Physical Therapy
Architecture	Economics	Geology	Marketing	Psychology
Biotechnology	Education	Human Resources	Medicine	Public Relations
Business	Engineering	Interior Design	Meteorology	Social Work
Chemistry	Finance	Journalism	Performing Arts	Veterinary Medicine

***\*\*Students successfully completing Mentor Seminar may be able to earn Advanced Standing Credit from a local post-secondary institution. Students should contact the course instructor for more information regarding articulated credits and participating post-secondary institutions.***

### **Mentor Seminar** F-8001, W-8002, S-8003

Grades: 11-12

Prerequisite: Application and Mentor Program Coordinator Approval

Length: One Period, One Trimester

*Mentor Seminar is a college and career prep course which gives you the advantage over your peers needed to prepare for your future.* Students will identify personal interests and skills to guide them while exploring college options and researching career opportunities. Students will develop professional skills, including interviewing, networking and interpersonal communication. The opportunity to meet with a professional in your chosen career field brings the real world to the classroom. If you only have room in your schedule for one part of the program, take Seminar. It offers you the time and expertise you need to get the edge you want in the competitive world of college and careers. Students are strongly encouraged to enroll in Mentor Field Experience to complete the Mentor Program; however, it is not required.

### **Mentor Field Experience** F-8005, W-8006, S-8007

Grades: 11-12

Prerequisite: Mentor Seminar and Mentor Program Coordinator Approval

Length: Two Periods, One Trimester (Students generally select the trimester with the fewest cocurricular conflicts to allow greater scheduling and travel flexibility during their mentorship.)

Credits: 2 (If scheduling is an issue, this course may be taken for one period instead of the two hour block. Students should discuss options with their counselor and/or with the program coordinator.)

*Mentorship in the workplace with a career professional is a blueprint for high performance.* This course is experience-based. Leave the classroom behind as you enter into the professional's world to gain exposure in the career field of your choice. In addition to a weekly class session with instructors and peers, you will be released from school to work with your career professional and learn first-hand what your career is all about. You will select and design an individual project under the guidance of your mentor and instructor. This course targets advanced level learners and requires a high level of student independence and responsibility. **Students must provide their own transportation to their mentor site.**

# PERFORMING ARTS

The department of PERFORMING ARTS offers a wide variety of courses in music theory, dance, choir, band and theatre. These courses are offered for elective credit. All performing arts courses fulfill the Minnesota Arts Standards requirement.

## **9<sup>th</sup> Grade Treble Choir (Eagle Choraliers) F-4151, W-4152, S-4153**

Grade: 9

Prerequisite: None

This choir is offered to 9th-grade treble singers entering the AVHS Choir program. Singing technique, music sight-reading, plus exciting literature from popular, Broadway, seasonal, and classical music will be studied and performed. The choir will perform at four public concerts each year. Participating during the fall trimester will result in expecting the student to continue winter and spring trimesters. Students will be expected to purchase or raise funds for performance uniforms. Full-time enrollment in a curricular choir class is a prerequisite for auditioned cocurricular ensemble membership.

## **9<sup>th</sup> Grade Tenor/Bass Choir (Eagle Troubadours) F-4161, W-4162, S-4163**

Grade: 9

Prerequisite: None

This choir is offered to 9th-grade tenor/bass singers entering the AVHS Choir program. Beginning singing technique, music sight-reading, plus exciting literature from popular, Broadway, seasonal, and classical music will be studied and performed. The choir will perform at four public concerts each year, as well as exchange programs with other district schools. Participating during the fall trimester will result in expecting the student to continue winter and spring trimester. Students will be expected to purchase or raise funds for performance uniforms. Full-time enrollment in a curricular choir class is a pre-requisite for auditioned cocurricular ensemble membership.

## **Intermediate Treble Choir (Ragazze Cantanti) F-4171, W-4172, S-4173**

Grade: 10-11-12

Prerequisite: None

This choir is designed for treble voices who wish to develop or continue developing their singing skills at the high school level. Advanced singing technique, music sight-reading, plus literature from classical, seasonal, Broadway, and popular music sources will be studied and performed at four public concerts each year. Choir festivals and exchange programs with other schools and Region Solo-Ensemble Contest participation will also be scheduled. Students will be expected to purchase or raise funds for performance uniforms. Full-time enrollment in a curricular choir class is a pre-requisite for auditioned cocurricular ensemble membership.

## **Intermediate Tenor/Bass Choir (Ragazzo Cantanti) F-4175, W-4176, S-4177**

Grade: 10-11-12

Prerequisite: None

This choir is designed for tenor/bass voices who wish to develop or continue developing their singing skills at the high school level. Advanced singing technique, music sight-reading, plus literature from classical, seasonal, Broadway, and popular music sources will be studied and performed at four public concerts each year. Choir festivals and exchange programs with other schools and Region Solo-Ensemble Contest participation will also be scheduled. Students will be expected to purchase or raise funds for performance uniforms. Full-time enrollment in a curricular choir class is a pre-requisite for auditioned cocurricular ensemble membership.

**Valley Select Chorale** F-4191, W-4192, S-4193

Grades: 11-12

Prerequisite: Audition/placement by director

Students in this mixed voice ensemble are selected for their advanced vocal ability and musical skills. Students will be expected to strive for perfection in choral music performance and continue to increase their singing technique and musical skills. A wide variety of a capella and accompanied choral literature is studied and performed. Choir members participate in four public concerts, fall choral festival, South Suburban Conference Choir Festival, and other statewide choral festival experiences. Students will be expected to purchase or raise funds for performance uniforms. Full time enrollment in a curricular choir class is a prerequisite for auditioned cocurricular ensemble membership.

**Symphonic Band** F-4060, W-4061, S-4062

Grades: 10-11-12

Prerequisite: Previous enrollment in band, new students by audition

The Symphonic Band is an advanced instrumental performance course focused on developing student instrumental skills and musical knowledge through the performance of wind literature of a high caliber from a variety of musical periods and styles. Throughout the course of the school year students are required to attend several concerts and events. All members also receive individual lessons for all three trimesters. Enrolled students are eligible to participate in instrumental music cocurricular activities Jazz Ensemble, Pit Orchestra, Solo & Ensemble Festival, Percussion Ensemble, Flute Ensemble, Clarinet Ensemble, Rhythm and Blues Band and Athletic Band. Symphonic Band is a year-long course. Please register for all three trimesters.

**Wind Ensemble** F-4064, W-4065, S-4066

Grades: 10-11-12

Prerequisite: Previous enrollment in band, new students by audition

The Wind Ensemble is a select group of wind and percussion musicians intent on studying and performing the highest caliber of wind literature available at several required concerts and events. Students in this advanced ensemble are selected by audition in the spring of the previous year. All members also receive individual lessons for the duration of the school year. Enrolled students are eligible to participate in instrumental music cocurricular activities: Jazz Ensemble, Pit Orchestra, Solo & Ensemble Festival, Percussion Ensemble, Flute Ensemble, Clarinet Ensemble, Rhythm and Blues Band and Athletic Band. Wind Ensemble is a full year activity. Please register for all three trimesters.

### **Advanced Placement® Music Theory** F-4197, W-4198, S-4199

Grades: 11-12

Prerequisite: Enrollment in Band or Choir and Instructor Approval

This three-trimester AP Music Theory course is designed to meet the requirements that would be found in a first-year college course in integrated music theory and aural comprehension. The first weeks are spent reinforcing the "rudiments" of music theory (pitch and rhythmic notation, meter, scales, key signature, intervals, triads/seventh chords, and non-chord tones). The remainder of the course covers counterpoint, four-voice harmonization and harmonic function, as well as secondary dominants and modulation. Class activities include aural skill practice, sight-singing, lecture, written exercises, listening, analysis, and group study/critique of harmonization. Following successful completion of this course, students are strongly encouraged to take the Advanced Placement Exam in Music Theory. This course would be valuable to all music students, but is especially recommended to students considering a college music major. The successful completion of this course and exam should result in significantly less difficulty in their first year of college music theory.

### **Dance Studies 4300**

Grades 9-10-11-12

Prerequisite: None

This one-trimester dance course gives students an opportunity to explore dance at an introductory level. Students will learn jazz and hip hop technique, improvisation skills, and how to choreograph a dance. This course does not have a performance requirement and is open to all students, regardless of previous dance training.

### **Social Dance 4312**

Grades 9-10-11-12

Prerequisite: None

Come social dance with us in the dance studio every day! Learn Salsa, Cumbia, Merengue, Tango, Swing Dance, Fox Trot, and more throughout the trimester in a fun and inspiring environment. This class will include movement every day and will teach the basic footwork patterns and partnering moves of many different styles of social dance.

### **Dance Tech 1** F-4301, W-4302, S-4303

Grades 9-10-11-12

Prerequisite: None

Dance Tech 1 is open to students who are entering the dance program at AVHS in grades 9-12. This course is a movement class on a daily basis and no prior dance experience is necessary. Students will learn hip hop, jazz, ballet, modern, salsa, swing dance, improvisation, and choreography skills. Performing in the fall dance show *Just a Glimpse* and the spring dance show *Danceworks* is a required (but fun) part of the class. Students are encouraged to sign up for all 3 trimesters of Dance Tech 1 but only 2 trimesters are required to move on to the next level. **If you have had 4 or more years of previous dance training, please see instructor for proper placement in a dance class.**

### **Dance Tech 2** F-4304, W-4305, S-4306

Grades 10-11-12

**Prerequisite: At least 2 trimesters of Dance Tech 1 and/or placement by instructor**

Dance Tech 2 is a mid-level dance course that continues the study of dance learned in Dance Tech 1. Students will expand their study of modern, jazz, hip hop, ballet, salsa, and swing dance techniques. A more in-depth exploration of dance history, improvisation, and choreography skills are expected. Performing in the fall dance show *Just a Glimpse* and the spring dance show *Danceworks* are a required (but fun) part of this class. Students are encouraged to sign up for all 3 trimesters of Dance Tech 2 but only 2 trimesters are required to move on to the next level.

**Dance Tech 3** F-4241, W-4242, S-4243

Grades 10-11-12

**Prerequisite: Successful completion of Dance Tech 1 and 2, or audition/placement by the instructor**

Dance Tech 3 is a fast-paced intermediate level course that expands upon the dance learned in Dance Tech 1 and 2. Dance styles like modern, jazz, and hip hop are studied more in depth including a strong focus on choreography skills. Students will also study different media programs that are used in dance such as Garageband for music editing and iMovie for dance on camera. Performing in the fall dance show *Just a Glimpse* and the spring dance show *Danceworks* is a required part of this course. Students are expected to sign up for all three trimesters of Dance Tech 3.

**Advanced Dance Company** F-4287, W-4288, S-4289

Grades 11-12

**Prerequisite: Successful completion of Dance Tech 3 and/or audition with instructor**

Advanced Dance Company is a year-long course designed for a select group of dancers who are intent on studying and performing the highest caliber of dance technique, choreography, and dance-related topics. Students will explore multiple styles of dance at advanced levels and learn advanced levels of choreography, performance, and critique. Students perform in venues outside of school, work with guest teachers and choreographers, and take field trips to experience dance in the Twin Cities. Performing in the fall dance show *Just a Glimpse* and the spring dance show *Danceworks* is a required part of this class. Students are expected to sign up for all three trimesters of Advanced Dance.

# PHYSICAL EDUCATION, WELLNESS & SAFETY EDUCATION

The Physical Education, Wellness and Safety Education courses at AVHS offer students opportunities to explore team sports, individual sports, and lifetime activities. We want all of our students to learn how to live long, healthy lives through physical activity and enhancing their health-related fitness.

- Our Physical Education curriculum focuses on developing life-long learners through active participation. Students will acquire knowledge and skills to provide a foundation for implementing an active lifestyle.
- Our Wellness curriculum provides students opportunities to learn and practice essential life skills. Students will learn the importance of achieving a high level of wellness through identifying and developing health-enhancing behaviors.
- Safety Education will cover driver education, accident prevention, and automobile safety. Students will also be trained in CPR. Safety Education is a graduation requirement in ISD 196.

## Course Requirements for Graduation:

1. <b>Fitness for Life</b>	1 trimester	grade 9
2. <b>Wellness 1</b>	1 trimester	grade 9
3. <b>Safety Education</b>	1 trimester	grade 9 (typically)
4. <b>Wellness 2</b>	1 trimester	grade 10 (typically)
5. Physical Education Elective	1 trimester	grade 10-11-12
6. Physical Education Elective	1 trimester	grade 10-11-12
7. Physical Education Elective	1 trimester	grade 10-11-12

## Wellness Course Offerings

### Required

- Wellness 1
- Safety Education
- Wellness 2

\*Online Wellness 2 (hybrid online/zero hour) may be taken in place of Wellness 2

### Elective

- Preventive Care of Athletic Injuries

Physical Education Course Offerings			
<b>Required</b>	<b>Fitness for Life</b> Prerequisite for all Physical Education classes		
<b>Electives</b>	Basic Self Defense	Fall and Spring Racquet Sports	Total Body Fitness
	Hockey/Broomball	Winter Team Sports	Cardio Fitness
	Basketball Theory	Spring Team Sports	Strength Training for Men
	S.P.A.R.Q. Class	Mind Body Connection	Strength Training for Women
	Fall Team Sports (also offered zero hour)	Dance-Cardio Mixx	Advanced Strength Training for Men and Women

**Safety Education 4511**

Grades: 9-10

Prerequisite: Students must be 15 or older to take Safety Education.

In Safety Education the first nine weeks will be in Driver Education. After approximately four weeks of preparation, the students will receive their blue cards to take the permit test at the Eagan Exam Station. The last three weeks of this course will involve CPR (Cardio Pulmonary Resuscitation) with each student being trained in CPR. Students will have an opportunity for behind-the-wheel instruction during the trimester; this training takes place outside the Safety Education class. The cost for Behind the Wheel, \$302.00, is separate from Safety Education, and is NOT required for school credit.

**Wellness 2 4507**

Grades: 10-11-12

Prerequisite: Wellness 1

Wellness 2 incorporates the skills of goal setting, decision-making, and refusal techniques into the areas of mental health, stress and stress management, mental illness, and tobacco, alcohol, and other chemicals.

**Online Wellness 2 4501**

Grades: 10-11-12

Prerequisite: Wellness 1

Online Wellness 2 incorporates knowledge into goal setting, decision-making, and refusal skills in the areas of mental health; stress and stress management; tobacco, alcohol, and other chemicals. This is an online hybrid course in which most of the work is done online. **This class meets Wednesdays throughout the trimester at 6:30 a.m.** Students should expect approximately four hours of course work to be done outside of class each week.

**Mind Body Connection 4530**

Grades: 10-11-12

Prerequisite: Fitness for Life and Wellness 1

Students will explore and understand positive strategies to take care of their mind and body. The course will focus on learning and practicing strategies to improve and promote healthy social and emotional health. Through journaling, students will be able to understand how people who have good emotional health are aware of their thoughts, feelings and behaviors. Students will participate in yoga, pilates, Tai Chi, meditation and low impact aerobic exercise.

**Fall Team Sports 4531**

Grades: 10-11-12

Prerequisite: Fitness for Life

Units: Touch/Flag Football, Soccer, Lacrosse, Broomball, Disc Golf

These activities will cover rules, strategies, and fundamentals of each game. Advanced skills and strategies of team play are emphasized.

**Fall Team Sports—Zero Hour 4532**

Grades: 10-11-12

Prerequisite: Fitness for Life

This course in physical education will include a variety of sports and activities with emphasis on teamwork, sportsmanship, and physical conditioning. Activities will vary but may include strength and conditioning activities, racquet sports, basketball, team handball, and indoor games.

The class meets from 6:30 am to 7:20 am, each school day beginning on day 2 of the fall trimester. Students must provide their own transportation for a class start time at 6:30 am. Bus transportation will not be available for this class. This class will earn one physical education credit. All attendance policy rules, physical education dress code, and class expectations will be enforced. This course will only be offered in the fall trimester.

Enrollment priority will be given to students who do not take any study halls and have difficulty getting the 7<sup>th</sup> Physical Education, Wellness and/or Safety Education class completed because it requires them to drop a full year class. However, this class is currently open to all students in grades 10, 11 and 12.

**Fall Racquet Sports 4534**

Grades: 10-11-12

Prerequisite: Fitness for Life

Units: Tennis, Badminton, Pickle Ball, Table Tennis

This course will include fundamental strokes, rules, and game strategy for each activity. There will be singles and doubles tournaments in each class. Students must furnish their own tennis racquets. Students may purchase a badminton racquet from AVHS. Table tennis and pickle ball paddles will be supplied.

**S.P.A.R.Q. – Speed, Power, Agility, Reaction, Quickness 4550**

Grades: 11-12

Prerequisite: Fitness for Life

This course is an opportunity for individualize learning for students interested in personal speed, power, agility, reaction and quickness development. The SPARQ class is not just for the student athlete but for anyone who wants to be challenged to take their fitness to the next level. Students learn about different types of workouts and how to use many different types of equipment. **This class is a block-period class, meeting every other day during a zero hour and 1<sup>st</sup> period (approximately from 6:45am-8:30am)**

**Prevention and Care of Athletic Injuries 4554**

Grades: 10-11-12

Prerequisite: Fitness for Life

This course provides instruction, demonstration, and hands-on-training in the basic principles of first aid and athletic training. It also provides instruction in anatomy and physiology of the human body. This course includes developing the ability to deal with common medical problems, common injuries occurring in sports activities, and athletic taping techniques. Time is also devoted to research of sports medicine careers. Students who are interested in becoming student athletic trainers are provided with the background to perform this role.

**Strength Training for Men 4562**

Grades: 9-10-11-12

Prerequisite: Fitness for Life

This course will use a variety of techniques and skills for enhancing physical fitness levels. Students will participate in a supervised program of weight training activities based on individual needs. Developing large muscular strength and endurance, speed development, flexibility and conditioning drills will be incorporated into the class.

**Advanced Strength Training for Women and Men 4563**

Prerequisite: Fitness for Life and Strength Training

This course is designed for both female and male students wishing to continue and enhance their strength, speed and overall fitness. The course will use various best practice techniques to tailor programs to the individual student-athlete. This course can be taken multiple times throughout an academic career.

**Advanced Strength Training for Women and Men 4564**

\*Same course as above. This number will be used for students registering for the class a 2nd time in the same school year.

**Strength Training for Women 4584**

Grades: 9-10-11-12

Prerequisite: Fitness for Life

This course will use a variety of techniques and skills for enhancing physical fitness levels. Students will focus on proper stretching techniques, free weights, weight machines, plyometrics, cardio training and speed development as effective training methods to tone and tighten muscles. Emphasis will be on overall fitness.

**Cardio Fitness 1 4591**

Grades: 9-10-11-12

Prerequisite: None

This course will focus on enhancing personal cardiovascular fitness levels through high and low intensity training, circuits, and muscle conditioning. Components of instruction will include exercise physiology, cardiovascular conditioning, and cardiovascular anatomy.

**Cardio Fitness 2 4594**

Grades: 10-11-12

Prerequisite: Cardio Fitness 1

Students will continue to develop the complexity of their conditioning. This course will focus on enhancing personal cardiovascular fitness levels through high and low intensity training, circuits, and muscle conditioning. Components of instruction will include exercise physiology, cardiovascular conditioning, and cardiovascular anatomy.

**Dance + Cardio Mixx 4596**

Grades: 9-10-11-12

Prerequisite: Fitness for Life

Dance+Cardio Mixx is a course that combines the fitness elements of dance with the cardiovascular requirements of physical education. Students will learn about cardiovascular health, core strength, skeletal alignment, and muscle balance while studying swing dance, salsa, cardio hip hop, Zumba, yoga, and more. This class will be fun, fast paced, and interactive.

**Basic Self Defense 4597**

Grades: 10-11-12

Prerequisite: Fitness for Life

This course will provide basic instruction in the principles and philosophy of self-defense. Students will explore and expand self-confidence and defense maneuvers. This course is designed for students with little or no self-defense experience. Self-defense punches and kicks will be implemented into a kickboxing cardiovascular unit.

**Basketball Theory 4600**

Grades: 9-10-11-12

Prerequisite: Fitness for Life

This course will provide instruction in basketball skills and play. Students will be given the experiences necessary to use basketball as a lifetime fitness activity. Fundamental skills, advanced offensive and defensive strategies and skill challenges will be included. Five on five, three on three and one on one tournaments will be a part of the class. Students will also learn the skills to become certified basketball officials.

**Winter Team Sports 4601**

Grades: 10-11-12

Prerequisite: Fitness for Life; Winter Team Sports 2

Units: Basketball, Floor Hockey, Volleyball, Team Handball

This course will include the development of fundamental skills, team playing techniques, and basic game strategies of basketball, volleyball, floor hockey, and team handball. The students will also assist in officiating games and participate in round-robin tournaments.

**Hockey/Broomball 4608**

Grades: 10-11-12

Prerequisite: None

This course will include the development of fundamental skills, team playing techniques, and basic game strategies of broomball and hockey in the Apple Valley Sports Arena. Students may need to furnish their own hockey sticks and skates.

**Spring Team Sports 4621**

Grades: 10-11-12

Prerequisite: Fitness for Life

This course will emphasize physical fitness through participation in a variety of activities and sports. Units may include: lacrosse, soccer, ultimate frisbee, softball, rec games, dodge ball, and disc golf.

**Spring Racquet Sports 1 4623**

Grades: 10-11-12

Prerequisite: Fitness for Life

Units: Badminton, Table Tennis, Pickle Ball, and Tennis

This course will include game strategies for each activity. There will be singles and doubles tournaments in each class. Students must furnish their own tennis racquets. Students may purchase a badminton racquet from AVHS. Table tennis and pickle ball paddles will be supplied.

**Spring Racquet Sports 2 4624**

Grades: 10-11-12

Prerequisite: Fitness for Life; Fall or Spring Racquet Sports 1 in a previous school year

Units: Badminton, Table Tennis, Pickle Ball, and Tennis

This is an ADVANCED course for students whom have taken other Racquet Sports classes. This course will include game strategies for each activity. There will be singles and doubles tournaments in each class. Students must furnish their own tennis racquets. Students may purchase a badminton racquet from AVHS. Table tennis and pickle ball paddles will be supplied.

**Total Body Fitness 1 4627**

Grades: 9-10-11-12

Prerequisite: Fitness for Life

This course will concentrate on increasing muscular conditioning and overall body fitness. A variety of equipment and current training styles will be explored, such as: Tabata training, circuit training, Pilates, yoga, and isolated muscle strengthening. Students will learn how to design and present a workout for the class.

**Total Body Fitness 2 4587**

Grades 10-11-12

Prerequisite: Fitness for Life, Total Body Fitness 1

Students will continue to develop the complexity of their fitness. This course will concentrate on increasing muscular conditioning and over all body fitness.

**Unified Physical Education 4650**

Grades: 10-11-12

Prerequisite: Fitness for Life

In this course, General Education and Adapted Physical Education students will learn and work together. Students will support one another while learning the knowledge and skills to maintain a health-enhancing lifestyle of physical activity and fitness. Students will participate and learn to make modifications by playing basketball, kickball, softball, soccer, floor hockey and volleyball. They will also work cooperatively on strength training, fitness testing, biking and scooter activities. Through ongoing leadership opportunities, students will also be empowered to create a more inclusive and accepting school environment for all students.

# SCIENCE

The science department at AVHS offers core science instruction in the four major disciplines of science: Biology, Chemistry, Earth and Space Science, and Physics. Students are required to take three years of science with one year in Earth Science (On-Level or Honors), one year in a biology course (On-Level, Honors, or AP), and one year of chemistry or physics. Apple Valley High School science staff recommend students intending to enroll in college consider taking four years of science including the core earth science, biology, chemistry, and physics courses.

In addition, the department offers electives designed to enrich or enhance the science interest of students. Electives in ecology and earth science focus on specific topics at greater depth. These classes are generally one trimester long and are open to all students of the appropriate grade level. CIS Human Physiology, Advanced Placement® Biology, Advanced Placement® Chemistry, and Advanced Placement® Physics are designed to give students who are deeply interested in science or who might be planning on a career in science the opportunity to earn college credit through examination or course completion.

Many Science Elective Courses provide excellent exposure to ideas central to various careers or career preparation, including:

**CIS Physiology** - Health Professions, Athletic Training

**AP Biology** - Biologist, Pharmacist, Medicine, Biomedical Engineering

**AP Chemistry** - Chemist, Engineering, Medicine, Pharmacist, Materials Science, Food Science

**AP Physics** - Engineering

**Aquatic Ecology** - Naturalist, Environmentalist, DNR Enforcement, Environmental Policy Writer, Fisheries Biologist, Fisheries Technician, Fishing Industry Sales, Professional Fisherman, Work at a Zoo.

**Astronomy** - Researcher, Space Exploration, Aerospace Engineering and Mechanics, Astrophysics, Astronaut

**Environmental Studies** - Naturalist, Environmentalist, DNR Enforcement, Environmental Policy Writer. Environmental Engineer

**Field Geology** - Geologist, Geophysicist, Energy Engineer, Water Resources

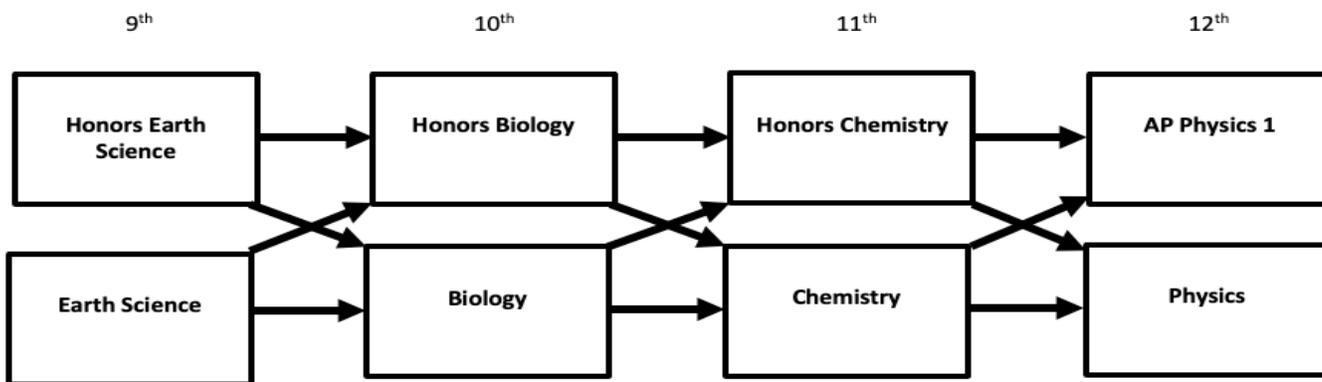
**Climate and Atmospheric Science** - Researcher, Weather Forecasting, Weather Broadcasting, Disaster Planning, Meteorologist

**Science Olympiad** - All STEM Careers, Engineering, Medicine, Health Professionals, Materials Science, Food Science, Geologist, Chemist, Pharmacist, Astronomy, Environmentalist, Computer Programming, Forensics, Aerospace

**Terrestrial Ecology** - Naturalist, Environmentalist, DNR, Environmental Policy Writer, Landscaping, Wildlife Biologist, US Forest Service, Conservationist for Organizations such as Ducks Unlimited or Pheasants Forever, Work at a Zoo.

Science courses are not sequential, and many can be taken at any time during a student's time at AVHS. (Students should pay attention to both science and math prerequisites for some courses) As a result, there are many paths students could take through the science curriculum at AVHS. A few of these paths are shown and described on the following pages.

**Traditional Paths:**



**Other Science Electives (first year available):**

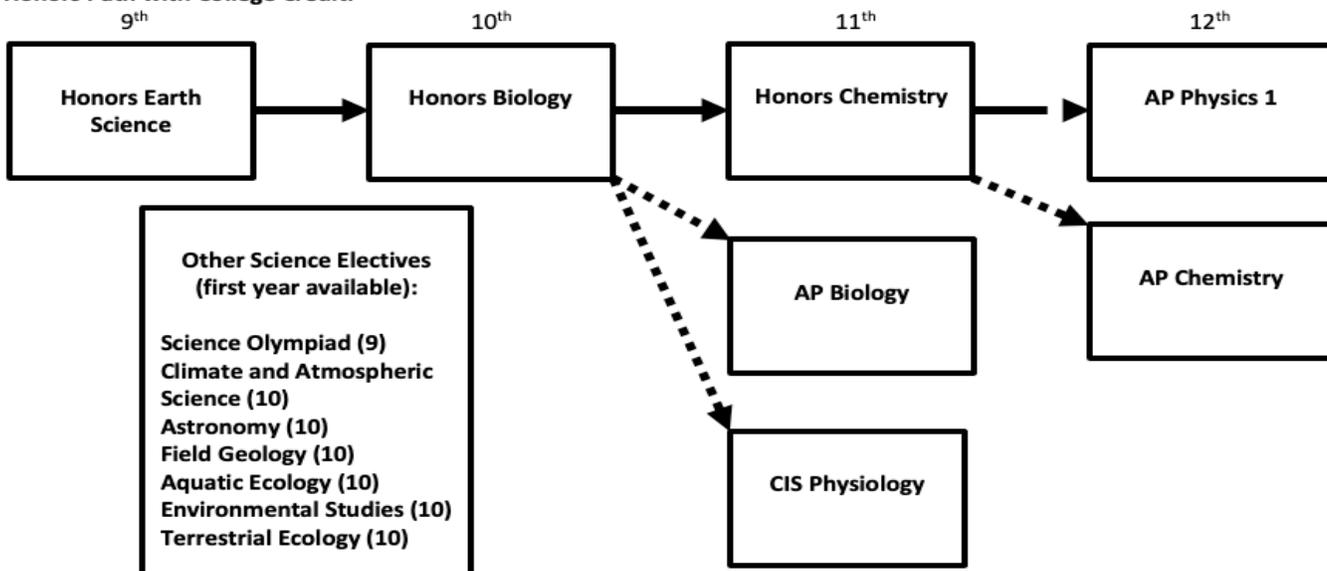
- Science Olympiad (9)
- Climate and Atmospheric Science (10)
- Astronomy (10)
- Field Geology (10)
- Aquatic Ecology (10)
- Environmental Studies (10)
- Terrestrial Ecology (10)
- CIS Physiology (11)
- AP Biology (11)
- AP Chemistry (11)
- AP Physics (11)

**CHECK COURSES FOR PREREQUISITES!**

**Who might consider these pathways:**

- Any Student

**Honors Path with College Credit:**



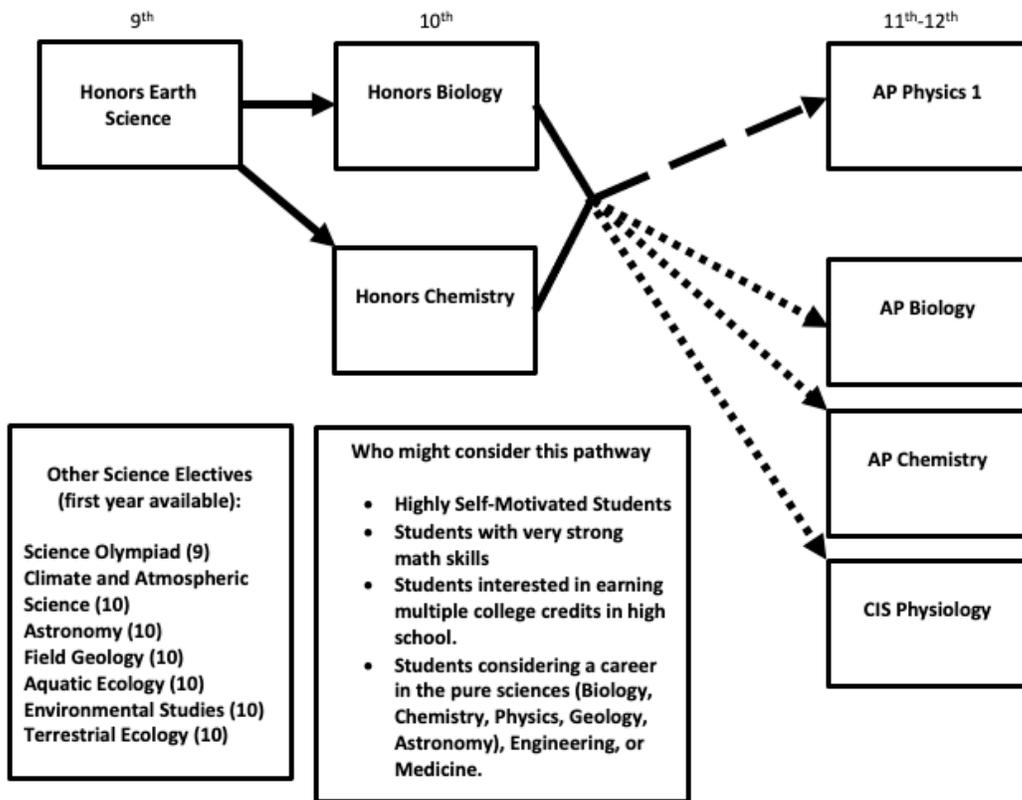
**Other Science Electives (first year available):**

- Science Olympiad (9)
- Climate and Atmospheric Science (10)
- Astronomy (10)
- Field Geology (10)
- Aquatic Ecology (10)
- Environmental Studies (10)
- Terrestrial Ecology (10)

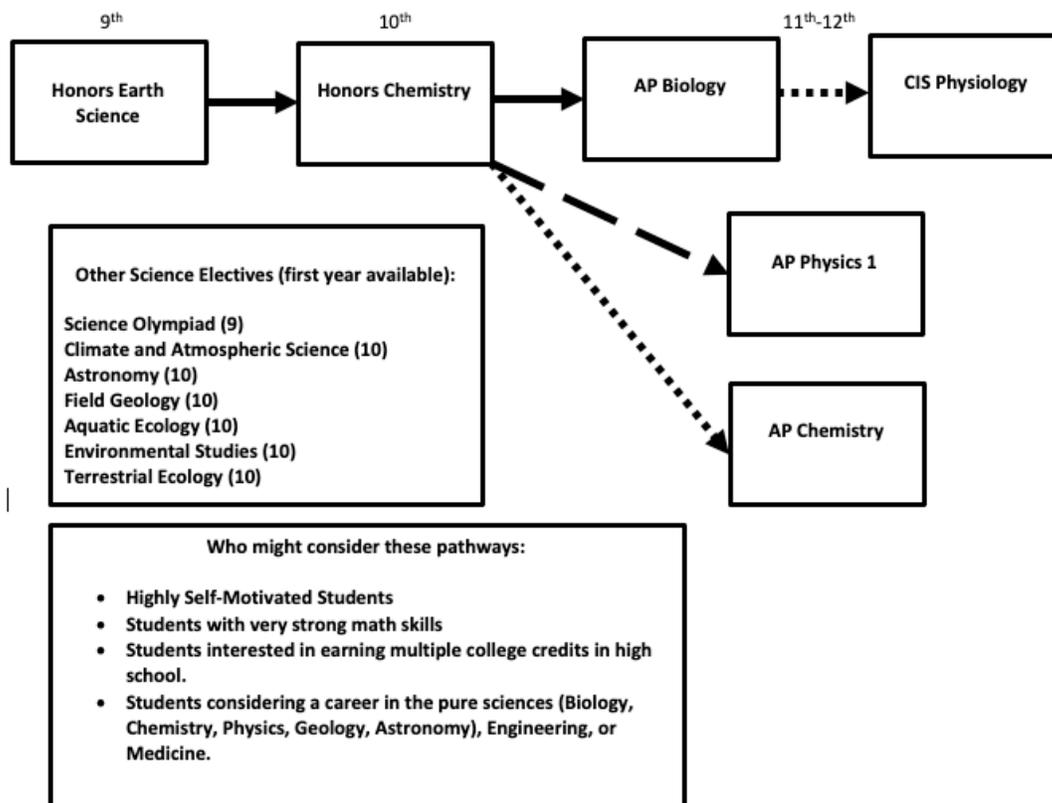
**Who might consider this pathway:**

- Motivated Students
- Students with strong math skills
- Students interested in earning college credits in high school.
- Students considering a career in the pure sciences (Biology, Chemistry, Physics, Geology, Astronomy), Engineering, or Medicine, or other Health Care Professions.

**More Challenging Honors Path: Gets to AP courses quicker.**



**Most Challenging Honors Paths: Gets to AP courses fastest.**



**Biology** F-5051, W-5052, S-5053

Grades 10-11-12

Prerequisite: None

Biology is a year-long course that helps students develop an understanding of living organisms. This class is recommended by the Science Department for most 10<sup>th</sup> grade students. Laboratory activities are an integral part of each topic studied. The state standards for biological science will be covered in this course. Those students wishing to take an accelerated version of this course should consider Honors Biology. Topics addressed are: scientific method, chemistry of life, cells, cells and energy, mitosis, and meiosis; genetics, protein synthesis, evolution, classification, and ecology; ecology, homeostasis, immune, nervous, respiratory and circulatory systems, and plant/animal kingdom.

**Honors Biology** F-5061, W-5062, S-5063

Grade: 10-11-12

Prerequisite: Strong performance in Earth Science or Honors Earth Science.

Honors Biology is a year-long course that will focus on an in-depth study of the 9-12 Minnesota Standards for Life Science. This course provides students with an advanced understanding of the fundamental processes of all living things. Topics include ecology, biological molecules, enzymes, respiration, photosynthesis, and the molecular basis of inheritance and human systems. Students are expected to take an active role in class discussions as well as demonstrate critical thinking in conducting their own investigations. With additional study, students may choose to take the AP<sup>®</sup> Biology exam. During the spring, students are expected to participate in the fetal pig dissection lab.

**Advanced Placement<sup>®</sup> Biology** F-5100, W-5101, S-5102

Grades: 11-12

Prerequisite: Strong performance in Biology, Honors Biology, or Honors Chemistry

This course is equivalent to a two-semester college introductory biology course usually taken by biology majors during their first year of college. It is a rigorous course that requires advanced reading and study skills. Students will develop a conceptual framework for modern biology and an appreciation of science as a process. Bioinformatics (the application of statistics and computer science to molecular biology) will be used to analyze biological data throughout the course. Topics covered in this course are chemistry and life, cells, cellular energy, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. One goal of this course is to prepare students to take the Advanced Placement exam in May and students in this class will register for and take the AP exam in May. There is a fee for this exam. Students may help by supporting a Lab Consumable Materials Fund to enhance their lab experience beyond the required curriculum (chemical and specimen costs).

**Chemistry** F-5071, W-5072, S-5073

Grades: 10-11-12

Prerequisite: None

Chemistry is a year-long course investigating the composition of matter and the changes in matter during chemical reactions to help us describe what objects are made of and how matter creates the world around us. Finding problems, making solutions, innovations, collaboration, and lab work are an integral part of the course. This course is appropriate for and designed for any college bound student. Students interested in studying STEM intensive fields such as pharmacy, physics, chemistry, biology, medicine, and engineering and nursing should take Honors Chemistry.

**Honors Chemistry** F-5077, W-5078, S-5079

Grades: 10-11-12

Prerequisite: None

Honors Chemistry is a year-long course, investigating the composition of matter and the changes in matter during chemical reactions. It helps us describe what objects are made of and how matter creates the world around us. Topics are similar to those covered in Chemistry, however, the approach is more math-intensive and concepts are explored in greater depth. This course is appropriate for and designed for students interested in studying STEM intensive fields such as pharmacy, physics, chemistry, biology, engineering and nursing in college.

**Advanced Placement® Chemistry** F-5081, W-5082, S-5083

Grades: 11-12

Prerequisite: Strong performance in Chemistry or Honors Chemistry

AP® Chemistry is a year-long course designed to be the equivalent of a general chemistry course taken during the first year of college. It should be taken as a second-year chemistry course at the high school. Content centers on four major ideas in chemistry: Scale, Proportion, and Quantity of Matter, Structure and Properties of Matter, Transformations of Matter, and Energy Changes of Matter. Lab skill development and scientific problem solving are also emphasized, including a focus on guided inquiry. Upon completion, students may elect to take the AP® Chemistry exam. Performance on this exam can earn a student college credit or advanced college placement, depending on the policies of the university or college.

**General Physics** F-5087, W-5088, S-5089

Grades: 10-11-12

Prerequisite: **Teacher recommendation only. Students may not self-enroll**

General Physics is a year-long, hands-on course that focuses on learning physics concepts and how they relate to everyday life. Extensive knowledge of math is not required. The main topics of study will be motion, forces, energy, electricity, magnetism, sound and light. Highlights of the year include an annual egg crash competition and rocket launching

**Physics** F-5091, W-5092, S-5093

Grades: 10-11-12

Prerequisite: Completion of or concurrent enrollment in Algebra 2

Physics is a year-long course recommended for any student who is planning to go to college. In this course, students investigate everyday phenomena in an attempt to explain and describe these phenomena. We do this through direct experimentation and by learning from others. It is recommended that you take all three trimesters of the course. Topics include motion, forces, energy, electricity, waves, sound, light, and optics. Woven throughout these topics is an emphasis on experimental design and design thinking.

**Advanced Placement® Physics 1: Mechanics** F-5094, W-5095, S-5096

Grades: 10-11-12

Prerequisite: Algebra 2 Completed or Concurrently Enrolled in Algebra 2

This year-long course is a thorough introduction to the principles of physics for students planning to major in a science or engineering related field. For non-science college majors, this course may meet college science requirements for colleges or universities. AP Physics 1 is an algebra-based physics course that explores topics such as: Kinematics; Newton's Laws of Motion; Work, Energy and Power; Systems of Particles and Linear Momentum; Circular Motion and Gravitation; Simple Harmonic Motion; and Torque and Rotational Motion. This course promotes scientific inquiry in an engaging and rigorous setting. You will design and perform labs. While math skills are important, your ability to explain and discuss physics concepts is essential.

**College in the Schools (CIS) - Human Physiology, Technology and Medical Devices** F-5064, W-5065, S-5066

Grades: 11-12

Prerequisite: Minimum B+ in Biology and concurrent enrollment in Chemistry

CIS Human Physiology, Technology and Medical Devices is a year-long course. The course is the study of the organization, structure, function, and interrelationships of the major systems of the human body and their response to disease. This course is a lab and activity-based course (including dissections) that requires memorization, reading, and note-taking skills. This college-credit course is recommended for students with an interest in pursuing a medical or health care career. The fall trimester covers body orientation and nomenclature, histology, the integumentary system, bones, the skeletal system, and joints. The winter trimester covers muscle anatomy and physiology. The spring trimester covers the nervous system, blood, and the cardiovascular system. This course uses a college-level textbook.

**General Science of Earth** F-5031, W-5032, S-5033

Grades: 9-10-11-12

Prerequisite: Teacher recommendation only. Students may not self-enroll

General Science of Earth is a year-long class designed to help certain 9th through 12th grade students meet a year of their science requirement. Students will be exposed to the major concepts in biology, chemistry and physics in an integrated manner. Student learning experiences will be at a practical level with a minimum of mathematics. Topics in the first trimester deal with the scientific method, phenology, and basic concepts in environmental science. Topics also include the concepts of chemistry, chemistry in the environment and environmental issues.

**Climate and Atmospheric Science** 5041

Grades: 10-11-12

Prerequisite: Earth Science

In this class students will gain a better understanding of the components that make up weather and climate. Students will gain knowledge on how our atmosphere interacts with the other “spheres” of Earth, such as land, water, ice, etc...They will also learn about weather phenomena, the differing climates of Earth and how Earth’s climate has changed from the past to the present, and into the future. This is a good course for those interested in climate science, atmospheric science and meteorology.

**Astronomy** 5045

Grades: 10-11-12

Prerequisite: Earth Science

Students in this class study our solar system. They learn how telescopes work, study about early astronomy, the solar system, galaxies and current space programs like Space X, Blue Horizon, NASA, etc. Students will learn to tell star time, study deep space objects, discuss ideas about the nature and origin of the universe and extraterrestrial life.

**Field Geology** 5046

Grades: 10-11-12

Prerequisite: Earth Science

This course will study the Geology and landscapes of Minnesota. Students learn about rocks and minerals mined and used in our state. Students will also learn about Minnesota’s past landscape as told by rocks and glacial evidence. You will also learn how glaciers shaped Minnesota. Students will look at environmental issues which impact our state, including groundwater and mining.

**Aquatic Ecology 5055**

Grades: 10-11-12

Prerequisite: None

This course is designed to study aquatic ecosystems including ponds, lakes, streams, and salt water. Topics include physical and chemical properties of water, collection and identification of aquatic organisms, aquatic food chains, and human effect on aquatic ecosystems. Field trips will be taken to the AVHS pond, a lake, and a stream where students will be wading, collecting, observing, and handling organisms, and to the Minnesota Zoo to observe the ocean ecosystem.

**Environmental Studies 5057**

Grades: 10-11-12

Prerequisite: None

This course is designed to introduce the student to the problems humans have created on earth as a result of technical development and ever-increasing population growth. Sources, types, and effects of pollutants, as well as climate change will be examined. Throughout the course, we will examine the intersection of civil rights and environmental issues. Classroom discussions, problem solving techniques, critical thinking, and classroom projects will be utilized to analyze possible causes and solutions to these environmental problems.

**Terrestrial Ecology 5059**

Grades: 10-11-12

Prerequisite: None

Basic ecological concepts are studied using lab exercises, one field trip, population studies, and class discussions. Food webs, food chains, biomes, and energy cycles are included. Topics of ecological change and the evolution of populations are also studied. Students are encouraged to enroll in Aquatic Ecology and Environmental Studies.

**Science Olympiad 5060**

Grades: 9-10-11-12

Prerequisite: None

This Science elective course is designed to encourage students to explore Science, Technology, Engineering and Inquiry related to the competition-based Science Olympiad program. Students will use their skills and knowledge to explore a choice of challenges ranging from testing their knowledge of all science topics like astronomy, biology or inquiry, to honing their lab skills in chemistry or physics, to building devices, vehicles and structures to meet specific requirements. A variety of STEM skills are integrated throughout this course.

# SOCIAL STUDIES

## **US History** F-6027, W-6028, S-6029

Grade: 10

Prerequisite: None

United States History is a chronological approach to the various time periods of our past. This investigation will look at the social, political, cultural and international aspects of various periods. Trimester 1 involves an overview of the United States from 1800 through Reconstruction, trimester 2 includes the Gilded Age through the Great Depression and trimester 3 covers World War II to the present.

## **Advanced Placement® US History** F-6047, W-6048, S-6049

Grade: 10-11-12 (Grade 11 and 12 elective credits only)

Prerequisite: Strong performance 9<sup>th</sup> grade social studies class.

Advanced Placement® US History is a course designed for eligible college-bound sophomores who have special skills in historical study. It may be taken in lieu of the regular 10<sup>th</sup> grade US History curriculum. It is also open to interested juniors and seniors who wish to take this course in addition to the regular junior and senior curriculum. Students will do intensive note taking, essay writing, and reading in a college-level text. This course will help students prepare to take an optional Advanced Placement® exam by which they could earn college credit.

## **Survey of US History** F-6024, W-6025, S-6026

Grade: 10

Prerequisite: **Teacher recommendation only. Students may not self-enroll**

## **World History** F-6064, W-6065, S-6066

Grade: 11

Prerequisite: None

This class enlightens students to the events that have shaped our modern world. In this course students will explore a history of early ideas and cultures. Trimester 1 involves an overview of the world from prehistory through 1500, trimester 2 includes the Renaissance through the revolutions of the 18<sup>th</sup> Century and trimester 3 will cover the period from 1800 through the present. The class finishes with a look at the regions and events that have influenced today's global world.

## **Advanced Placement® World History: Modern** F-6074, W-6075, S-6076

Grades: 11-12 (grade 12 elective credit only)

Prerequisite: None

AP® World History: Modern is a course designed for college-bound juniors and seniors who have special skills and interest in historical study. It may be taken instead of on-level 11<sup>th</sup> grade World History. It is also open to seniors who wish to take the course in place of the standard senior curriculum, though Economics is still required. Students will do extensive note taking, essay writing, and reading in a college-level text. This course will help prepare students for success in college and has the potential to give them college credit if they take and pass an optional Advanced Placement Exam.

## **World Civilizations** F-6054, W-6055, S-6056

Grade: 11

Prerequisite: **Teacher recommendation only. Students may not self-enroll**

**Economics 6113**

Grade: 12

Prerequisite: None (one trimester course)

This course introduces students to the basic concepts of economics. Topics within Microeconomics and Macroeconomics will be explored such as the role of the consumer, businesses, supply and demand, employment, money, and globalization. Attention will also be given to personal finance and credit decisions. **Economics is a graduation requirement.**

**Advanced Placement® Economics F-6117, W-6118, S-6119**

Grade: 12

Prerequisite: None

This year-long course works to understand wealth, production, and scarcity. The first part of the year will deal with basic principles such as choice, production, and supply and demand. The second focus of study is various microeconomic principles such as consumers and producers, different market types and their workings, public goods, taxes, and types of firms or businesses. The last third of the year will be used to look at macroeconomic principles such as measuring the national and global economy, the government's role, international trade, money, and economies in the long run. This course is meant to prepare students to take both the AP® Microeconomics and AP® Macroeconomics exams which may allow them to earn college credit. This course fulfills the social studies credit for all three trimesters and should not be taken in conjunction with regular economics.

**American Economics 6116**

Grade: 12

Prerequisite: **Teacher recommendation only. Students may not self-enroll**

This course introduces students to the basic concepts of economics. Topics within Microeconomics and Macroeconomics may be explored such as the role of the consumer, businesses, supply and demand, employment, money, and globalization. Attention will also be given to personal finance and credit decisions.

**\*NOTE: At least one trimester of Economics is required for graduation.**

**Advanced Placement® U.S. Government and Politics W-6162, S-6163**

Grade: 12

Prerequisite: None (two-trimester course)

This course is designed for college-bound seniors who are interested in an analytical perspective on government and politics in the United States. The course will focus on the following six themes: 1. Constitutional Underpinnings of United States Government; 2. Political Beliefs and Behaviors; 3. Political Parties, Interest Groups, and Mass Media; 4. Institutions of National Government; 5. Public Policy; 6. Civil Rights and Civil Liberties. This is a two-trimester course.

**Criminology 6103**

Grade: 12

Prerequisite: None

Criminology is a study of deviant behavior; including the causes, the consequences and society's and governmental responses. Topics will include crime, juvenile delinquency, correctional institutions, police enforcement, FBI, the court system, and the prevention of deviant behavior.

**Sociology 6106**

Grade: 12

Prerequisite: None

Sociology is a course of study to gain an understanding of the human person and his/her relationship to others. Emphasis will be placed upon human relations, institutions, in particular the family, and groups in our society.

**Psychology 6111**

Grade: 12

Prerequisite: None

This introductory course in Psychology will attempt to help students better understand themselves and others. Personality development, mental health, and how we learn will be emphasized topics. Students will be involved in activities and experiments to further the learning process.

**Advanced Placement® Psychology F-6142, W-6143, S-6144**

Grade: 12

Prerequisite: None

This year-long course is an in-depth investigation into the scientific study of the behavior and mental processes of the mind. Students will conduct experiments, study psychological principles, phenomena, ethics, and methods within this field as a way of better understanding, amongst other things, behavior, perception, and the mind. The course will also focus on preparing the students to take the AP® Psychology exam in the spring which may allow them to earn college credit.

**Developmental Psychology F-6121, W-6131, S-6141**

Grade: 12

Prerequisite: Application, Interview, and Instructor Approval

Developmental Psychology, or DP, is a year-long commitment that allows students to focus on the intersection of education and psychology. Students will learn about lifespan human development and the physiological systems of the body and the effect that chemicals can have on those systems. Additionally, students will participate in group activities meant to foster trust and openness. Finally, students will explore educational philosophy and teaching methodologies, and sharpen their public speaking skills. This course will also allow students to potentially earn three college credits via a concurrent enrollment option through Minnesota State, Mankato.

DP is a program unique to ISD196. Over the course of the year, each student is given the responsibility of teaching the district's social-emotional learning and drug education program to a group of sixth-graders at a middle school. Students will educate sixth-graders on the impact that chemicals can have on their lives and support the students in making healthy and positive life choices.

*\*\*Students should be aware that DP is a two-hour block class when they are registering for their Senior courses.*

**College in the Schools – An Interdisciplinary Look at the Family in Multicultural America F-6080, W-6081**

Grades: 11-12

Prerequisite: None

This interdisciplinary social science course is designed to explore families through a multicultural lens and help students to evaluate the different ways that groups of people are treated. A broad understanding of multiculturalism is employed that includes race, ethnicity, class, gender, sexual orientation, and disability so as to acknowledge that personal identity is complex and various. Different aspects of social justice—including power, prestige, and privilege—will be explored as well as the many layers of a family's environment and how they converge to ease challenges for some while reinforcing challenges for others. This course includes service-learning component that will be arranged through AVHS. Students will have concurrent enrollment with the University of Minnesota with an opportunity to earn college credit.

# SUPPORT SERVICES

**SUPPORT SERVICES** *Support Courses have not been approved by the NCAA Clearinghouse.*

These courses are available to students who need support in their educational program above and beyond what might be available to them in the regular curriculum. It is important to note these programs require recommendation by a Child Study Team. Admission to these classes is based on the determination of a disabling condition in which the student's educational needs would best be served in this manner. If you have questions concerning these programs, contact your student's counselor or case manager.

## **Connect - (CID Center Based)**

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

Functional Life Skills: F-0910, W-0911, S-0912

## **Strategies - (CIP Center Based)**

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

English: F-0992, W-0993, S-0994

Math: F-0983, W-0984, S-0985

Social Studies: F-0989, W-0990, S-0991

Academic Prep 3: F-0977, W-0978, S-0979

Transition Life Skills: F-0995, W-0996, S-0997

## **Achieve – (EBD Center Based)**

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

Academic Prep: 0883, 0884, 0885

Transition Life Skills: F-0995, W-0996, S-0997

## **Deaf and Hard of Hearing (D/HH)**

Grades: 10-11-12

Prerequisite: Child Study Team recommendation

Academic Prep 4: F-0883, W-0884, S-0885

## **Developmental and Adaptive Physical Education (D/APE)**

Grades: 10-11-12

Prerequisite: Child Study Team recommendation

Physical Education: F-0880, W-0881, S-0882

## **Skills - (DCD Center Based)**

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

Basic English: F-0804, W-0805, S-0806

Basic Math: F-0801, W-0802, S-0803

Work Training: F-0810, W-0811, S-0812

Electives: F-0816, W-0817, S-0818

Life Skills: F-0813, W-0814, S-0815

Basic Social Studies: F-0819, W-0820, S-0821

Art/Music/Dance: F-0950, W-0951, S-0952

## **Emotional Behavioral Disability (EBD)**

Grades: 10-11-12

Prerequisite: Child Study Team recommendation

Academic Prep 2: F-0872, W-0873, S-0874

## **Specific Learning Disability (SLD)**

Grades: 10-11-12

Prerequisite: Child Study Team recommendation

Academic Prep 1: F-0961, W-0962, S-0963

Academic Prep 3: F-0851, W-0852, S-0853

### **SLD Math**

Fundamental Math Skills: 0838, 0839, 0840

Pre-Algebra Essentials: 0933, 0934, 0935

Algebra Essentials: 0971, 0972, 0973

Geometry Essentials: 0938, 0939, 0940

Algebra 2 Essentials: 0974, 0975, 0976

Consumer Math Skills: 0953, 0954, 0955

### **SLD Reading**

Reading Academy 1: F-0901, W-0902, S-0903

Reading Academy 2: F-0904, W-0905, S-0906

Reading Academy 3: F-0907, W-0908, S-0909

## **WES SE Seminar 0671, 0672, 0673**

Prerequisite: Child Study Team recommendation

# TECHNOLOGY, ENGINEERING & MANUFACTURING

## CONSTRUCTION COURSES

### **Introduction to Woods Technology 3024**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

This one trimester course is an introduction and orientation to the field of woods manufacturing and fabrication. The course covers the safe operation of both hand and power tools. Students who have little or no knowledge of woods technology are encouraged to register for this class. Specific areas to be covered in the class include pricing projects, furniture construction, gluing, laminating, and finishing techniques. Emphasis in this class will be on development of fundamental skills and knowledge along with the study of related technical information in manufacturing and fabrication. Each student will construct an oak chest lined with cedar to bring home at the end of the course.

### **Woods Design Lab 3025**

Grades: 9-10-11-12

Prerequisite: Introduction to Woods Technology

Suggested donation of \$30 to offset materials cost.

In this one trimester, students will further develop and challenge their skills and knowledge of woods technology. Advanced techniques for wood joinery and design will be incorporated. Students could possibly incorporate designs created in the Fab Lab and produced on the Shopbot 3D machine in the Fab Lab. Projects could include night stands, wall cabinets, coffee tables with stools/chairs, baseball bats, canoe paddles, boomerangs, ping pong paddles, lacrosse sticks, hockey sticks or other sports related-projects. Students who wish to further develop and challenge their skills and knowledge of woodworking will want to pursue this course. This course can be taken multiple times in different trimesters for credit.

### **Independent Study Woods Design Lab I.S. 3026**

Grades 10-12

Prerequisite: Successful completion of Intro to Woods and Woods Design Lab

A continuation of the Woods Design, with a more independent and choice-based curriculum.

## SKILLS FOR LIFE COURSE – RECOMMENDED FOR ALL STUDENTS

### **Home Repair and Problem Solving 3027**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

Technology and Engineering creates human-made products that are prone to malfunction or breakage. Students will gain confidence in troubleshooting and problem solving in order to be well prepared for future events. Concepts such as troubleshooting, redesign, retrofitting, process implementation, tool usage, system analysis and safety will be used to answer the ultimate engineering question: "How does this work?" This course will demonstrate the investigative nature of repair work, and promote confidence in troubleshooting by utilizing a problem-solving process to determine the problem, research the options for correction, and utilize the proper tools/techniques and safety standards to achieve a successful result. Additionally, knowing how to perform these repairs can save people thousands of dollars over a lifetime. Possible repair problems will be those found around the house, car, and campus.

## **MANUFACTURING COURSES**

### **Introduction to Metals Technology 3044**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

This one trimester course is an introduction and orientation to the field of metals manufacturing and fabrication. The course covers the safe operation of both hand and power tools in the metals lab. Development of individual skills will be emphasized with participation in individual and/or class projects. Students will experience hands on exploratory exercises in brazing/soldering, arc welding, wire feed welding, lathe machining, mill machining and drilling. Emphasis in this class will be on exercises and development of fundamental skills and knowledge along with the study of related technical information in manufacturing and fabrication.

### **Metals Design Lab 3046**

Grades: 9-10-11-12

Prerequisite: Introduction to Metals Technology

Length: One or More Trimesters

Suggested donation of \$30 to offset materials cost.

Students will expand their personal development of fundamental skills in metal machining areas and in welding. Students will be expected to select, design, plan, and complete manufacturing/fabrication projects, or work on assigned tasks selected by the instructor. Students could possibly incorporate designs created in the Fab Lab and produced on the 3D Plasma cutting machine. Students who wish to further develop and challenge their skills and knowledge of metalworking will want to pursue this course. This course can be taken multiple times in different trimesters for credit.

### **Independent Study Metals Design Lab I.S. 3047**

Grades 10-12

Prerequisite: Successful completion of Intro to Metals and Metals Design Lab

A continuation of the Metals Design, with a more independent and choice-based curriculum.

### **Small Engines 3023**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

This course will cover theory of operation and component design of small gas engines. Students will disassemble, measure, clean, and reassemble an internal combustion engine. In addition, troubleshooting and repair of two and four-cycle engines will be covered.

## **COMMUNICATIONS COURSES**

### **Introduction to Graphics and Animation 3006**

Grades: 9-10-11-12

Prerequisite: None

This course introduces the basics of graphic communications. Students learn to meet a client's needs through use of computer illustration, digital photography, animation with Adobe and AutoDesk software, video, and multimedia presentations. Projects provide students with valuable computer, artistic, and communication skills. These skills can be applied immediately to personal projects in and out of high school.

***\*This course meets the Arts Standard Requirement***

## **Graphics and Animation Design Lab 3153**

Grades: 10-11-12

Prerequisite: Introduction to Graphics and Animation

This is a hands-on class using the concepts learned in Introduction to Computer Animation to produce an animated and rendered final project. Students will learn to work with lights, cameras, hierarchy and linking, animating, animation rendering, inverse kinematics, particle system, space warps, and nurbs.

## **ARCHITECTURE COURSES**

### **Introduction to Drafting and Architecture 3070**

Grades: 9-10-11-12

Prerequisite: None

This course is an introduction to architecture, covering types and styles of architecture and the basic concepts of house design. Concepts learned will involve creating hand drawn floor plans, foundation plans and elevation drawings of a predetermined house design using "Sketch-Up". It provides an introduction of drafting instruments, dimensioning, sketching, orthographic projection, isometric, pattern development, architecture, drafting, and Computer Aided Drafting (CAD) systems.

***\*This course meets the Arts Standard Requirement***

### **Drafting and Architecture Design Lab 3086**

Grades: 10-11-12

Prerequisite: Introduction to Drafting and Architecture

This course encompasses the advanced study of residential interior and exterior architectural design standards and it is a guided independent exploration of Drafting or Computer Aided Design problems. Students will continue to use the Computer Aided Drafting (CAD) systems to develop their independent project drawings. This course will also introduce the latest version of AutoDesk Revit, a Computer Aided Design (CAD) application.

## **ENGINEERING AND PRE-COLLEGE ENGINEERING COURSES**

### **Introduction to Engineering 3030**

Grades: 9-10-11-12

Prerequisite: None

This trimester course provides hands-on activities that allows students to explore the field of engineering. Students will experience what it is like to be an engineer designing prototypes in a fun creative atmosphere. Being only one trimester, students will get a feel for the engineering design process and principles and be able to gauge whether or not they would like to take the full year Project Lead the Way engineering courses for college credit.

***\*This course meets the Arts Standard Requirement***

### **Engineering Design 3013**

Grades: 9-10-11-12

Prerequisite: Successful completion of Introduction to Engineering

This trimester course is appropriate for students in grades 9-12 who have successfully completed Introduction to Engineering. The major focus of Engineering Design is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

***\*This course meets the Arts Standard Requirement***

**Fab Lab Essentials 3001**

Grades: 9-10-11-12

Prerequisite: None

Suggested donation of \$30 to offset materials cost.

Explore the Fab Lab and learn how to create, design and produce various products. This course will be an introduction to the 2D, 3D and CNC controlled machines in the Fab Lab. Students will also be introduced to the design process and documentation used in engineering related fields. Students will be expected to complete rudimentary tasks necessary for basic operation of the Fab Lab equipment. Basic hands-on projects will be designed and created throughout the course to demonstrate mastery of the equipment operations.

**Advanced Fab Lab 3002**

Grades: 9-10-11-12

Prerequisite: Fab Lab Essentials

Suggested donation of \$30 to offset materials cost.

This course provides a more in-depth exploration of the hands-on resources for designing and fabricating smart systems, including CAD/CAM/CAE; CNC machining, 3D printing, injection molding, and laser cutting. This course also puts emphasis on learning how to use the tools as well as understanding how they work. Students will utilize the design process to develop a product from inception to working prototype. There will be a mentoring component as well requiring the student to communicate with a community expert of their choosing.

**Fab Lab Mentorship 3003**

Grades 10-11-12

Prerequisite: Fab Lab Essentials and/or Fab Lab How to Make Almost Anything

Students who have met the prerequisites have developed specific skills that can be utilized to mentor new students in the program. This course will also allow students to create, design and produce advanced independent projects while assisting the instructor and other students.

**Fab Lab Production, Sale and Store 3004**

Grades 10-11-12

Prerequisite: Fab Lab Essentials and/or Fab Lab How to Make Almost Anything

This course will allow students the opportunity to create, design and produce products. Additionally, students will develop business and entrepreneur skills by marketing their products in the school store.

**Drone Construction, Modification and Flight 3005**

Grades 10-11-12

Prerequisite: Fab Lab Essentials and/or Fab Lab How to Make Almost Anything

As the uses of drones continues to grow in society, this course will allow students to create and design their own drones through the use of our International Fabrication Lab and E3STEM program.

**Advanced Drone Construction 3050**

Grades 10-11-12

Prerequisite: Fab Lab Essentials and Drone Construction, Modification and Flight

The Advanced Drone Construction course builds on the skills developed in Drone Construction. This class will focus on building, modifying and flying brushless motored drones which are modified through student coding. Students will go beyond simply flying drones, learning the open firmware built into the drone, allowing for modifications through coding.

# WORK EXPERIENCE

Work Experience offers special support to students while promoting the goals of increasing employability skills, developing vocational training and awareness, and promoting student success at Apple Valley High School. The goal of the program is to teach and support positive attitudes and behaviors toward school and work. This includes developing communication, personal awareness, self-advocacy, and leadership skills needed for successful school experiences and entry-level employment.

## **Work Experience Seminar (WES)** F-0668, W-0669, S-0670

Grades: 11-12

Prerequisites:

- Completion of the Work Experience Application
- Recommendation of Counselor or Child Study Team
- Permission of Work Experience Coordinator

\*The Work Experience Seminar is classroom-based instruction focusing on the issues surrounding employment and occupational awareness. (Maximum of 1 credit per trimester/3 credits per year)

## **Work Experience Seminar Transition (WEST)** F-0697 , W-0698 , S-0699

Grades: 11-12

Prerequisites: Teacher permission only. Recommendation to the course based on IEP Team evaluation

\*The purpose of WEST is to increase student employability skills, develop career awareness and a design a lifework plan. Maximum of 1 credit per trimester/3 credits per year.

## **Work-Based Learning (WBL)**

6th Hour F-0646, W-0656, S-0666

7th Hour F-0647, W-0657, S-0667

Grades: 11-12

Prerequisites:

- Completion of the Work Experience Application
- Recommendation of Counselor or Child Study Team
- Permission of Work Experience Coordinator

Work-Based Learning is community-based employment in which the student evaluation is based on their work performance as reported by their employer and coordinator. Students must be enrolled in WES to be in WBL. (Maximum of 2 credits per trimester/6 credits per year)

## **Work Experience/Career Exploration Program (WE/CEP)**

Grade 10: F-0677, W-0678, S-0679

Prerequisites:

- Recommendation of Counselor
- Permission of Work Experience Coordinator

The Work Experience/Career Exploration Program (WE/CEP) is a one or two-year program designed to help 9th and 10th grade students develop positive attitudes towards school and work, develop leadership skills, improve self-esteem and gain skills needed for entry-level employment and life-long careers.

Students participating in this seminar will be responsible for maintaining a daily planner and use the supervised study time to complete and turn in daily academic assignments. Reading and writing strategies along with self-management skills of self-respect, responsibility, resourcefulness, decision-making, and initiative will be emphasized.

# WORLD LANGUAGE

## **French 1** F-7001, W-7002, S-7003

Grades: 9-10-11-12

Prerequisite: None

The first year of French emphasizes the basics of speaking, listening, reading and writing in French. Whenever possible, attention will be given to French culture, geography, and history. At the end of their first year of French, students should be able to provide basic information about themselves, their friends and family and talk about their interests.

## **French 2** F-7005, W-7006, S-7007

Grades: 10-11-12

Prerequisite: Successful completion of French 1

This course will build on the reading, speaking, listening, and writing skills developed in French 1. The past tense is introduced, as well as new topics such as clothing, travel, home, shopping, entertainment, and health. An optional summer trip to France is offered every other year.

## **French 3** F-7009, W-7010, S-7011

Grades: 10-11-12

Prerequisite: Successful completion of French 2

This course will focus heavily on written and oral expression. Students learn a few new advanced tenses to further their knowledge of grammar. Reading skills are developed through authentic materials. Participation in a statewide French competition is encouraged. An optional summer trip to France is offered every other year.

## **College in the Schools (CIS) French 4** F-7013, W-7014, S-7015

Grades: 11-12

Prerequisite: Completion of French 3 with a "B" or higher and instructor approval

CIS French 4 is the equivalent to the University of Minnesota's Intermediate French 1003 course. Students work on thematic units to produce intermediate level writing in the form of compositions, speaking in conversations and presentations. Some new grammar is presented, but most importantly, skills are improved regarding content students have already seen.

## **German 1** F-7021, W-7022, S-7023

Grades: 9-10-11-12

Prerequisite: None

In beginning German, students will work on the basics of speaking, listening, reading, and writing in German. Some attention will also be given to German culture and history. By the end of the year, you should be able to talk about your interests, your family, and provide basic information about yourself and your friends.

## **German 2** F-7025, W-7026, S-7027

Grades: 10-11-12

Prerequisite: German 1

In German 2, students will build on the speaking, listening, reading, and writing skills developed in level one. The past tense will be introduced, as well as new topics including travel, animals, clothing, houses, and celebrations. We will continue to use group and partner work to improve speaking and listening skills, with an additional focus on German culture and geography. GAPP trip to Germany is available!

## **German 3** F-7029, W-7030, S-7031

Grades: 10-11-12

Prerequisite: German 2

German 3 students will continue to work on their skills using authentic German materials, including songs, short stories and magazine articles. Further study of grammar will allow students to be more expressive in their speaking and writing. Students will be able to carry on longer conversations in German. A major project is an oral presentation for German Language Day at the Minnesota Zoo. A GAPP trip to Germany is available!

**College in the Schools (CIS) German 4** F-7033, W-7034, S-7035

Grades: 11-12

Prerequisite: German 3

Students will continue to develop their German skills with an emphasis on discussion and speaking. Students will use and develop their skills as they learn about German culture and different periods of German history through films and texts in German. Additional grammar and vocabulary will be taught as needed to facilitate discussion. Students in German 4 may earn credits for German 1003 and 1004 at the University of Minnesota through the College in the Schools program.

**Japanese 1** F-7041, W-7042, S-7043

Grades: 9-10-11-12

Prerequisite: None

In beginning Japanese, students learn the basics in reading, writing, speaking, and listening. While learning about the Japanese people and culture, the basic grammatical structure of the language is introduced. Starting the first week, students will learn to read and write using Japanese script, Hiragana, Katakana, and some basic Kanji. By the end of the year, students will be able to talk about themselves, their family, and interests in Japanese.

**Japanese 2** F-7045, W-7046, S-7047

Grades: 10-11-12

Prerequisite: Successful completion of Japanese 1

Students study and use Japanese within its cultural context. Lessons deal with learning how to function adequately within a circle of Japanese friends. Verbs are given close attention, and students strengthen their language skills by learning more complicated sentence patterns, vocabulary, and kanji (Chinese characters) which help them to perform ordinary functions while visiting Japan. Lessons deal with expressions, sentence structures, and vocabulary that center around shopping for food and clothes, working a part-time job, and talking about pastimes, hobbies and personal skills. Emphasis is placed on all four aspects of language learning: listening, speaking, reading, and writing. Reading and writing exercises become more extensive.

**Japanese 3** F-7049, W-7050, S-7051

Grades: 11-12

Prerequisite: Successful completion of Japanese 2

Students study and use Japanese within its cultural context. Emphasis is placed on speaking skills and on narrative skills in writing. New verb forms are introduced. Plain speech is introduced and practiced extensively as students learn vocabulary and expressions centered on the topics of self, family and friends, school, driving in Japan, Japanese food and restaurants, personal health, using the telephone, household chores, and New Years in Japan. Students continue to add Kanji (Chinese characters) to their reading and writing vocabulary. Speaking and listening skills are strengthened by participation in class discussions.

**Japanese 4** F-7053, W-7054, S-7055

Grade: 12

Prerequisite: Japanese 3

Students study and use Japanese within its cultural context. Emphasis is placed on discussion and speaking skills in Japanese. Students will use and develop their skills as they continue learning about Japanese culture. Emphasis is also placed on correctly using polite and informal language in speaking and writing. Thematic units include and are not limited to: travel, daily life in Japan, natural disasters and celebrations.

**Spanish 1** F-7081, W-7082, S-7083

Grades: 9-10-11-12

Prerequisite: None

The student begins to learn the four skills of listening, reading, writing, and speaking Spanish. The basic grammatical structure of the language is introduced. There is a concentration in areas of listening, speaking, and memorization of basic sentence structure, phrases, and vocabulary. Students learn about the geography and diversity of Hispanic culture. This course is for beginners.

**Spanish 2** F-7085, W-7086, S-7087

Grades: 9-10-11-12

Prerequisite: Successful completion of Spanish 1

In Spanish 2, the student increases his/her ability to speak, read, and write Spanish. Emphasis is placed on mastery of communicative skills in present and past tenses. Students will expand their knowledge of culture and geography.

**Spanish 3** F-7093, W-7094, S-7095

Grades: 10-11-12

Prerequisite: Successful completion of Spanish 2

There is a greater emphasis on creative verbal and written expression. This class is taught predominately in Spanish.

**Spanish 4** F-7101, W-7102, S-7103

Grades: 11-12

Prerequisite: Success in Spanish 3

Fourth level students continue to study the complexities of the language and expand their vocabulary through real-life situations. Oral presentations and written compositions are required. Speaking Spanish is highly encouraged. Travel opportunities may be available. This class prepares students for CIS Spanish 5.

**College in the Schools (CIS) Spanish 5** F-7113, W-7114, S-7115

Grades: 11-12

Prerequisite: This course is open to students in the top 30% of their class with a minimum B average in Spanish 4, and with instructor approval.

This course is equivalent to Spanish 1003 and 1004 at the University of Minnesota and students may earn 10 semester credits through the University of Minnesota. The focus of the course is communicative, working with all four modalities: reading, writing, speaking, and listening.

**Spanish for Heritage Speakers A** F-7117, W-7118, S-7119

Grades 9, 10, 11, 12

Prerequisite: Native Spanish Speaker

Spanish as a Heritage Language is designed for Native Spanish Speakers who speak Spanish at home, but may need to develop their skills in reading and writing. The course will focus on improving literacy and proficiency with an emphasis on Latin American culture, identity and history. Students will develop skills to prepare them to use Spanish academically in order to be career and college ready. This class will also aid students in preparing for the Bilingual Seals Exam, which awards college credits to bilingual students.

**International Cinema** 7120

Grades: 10-12

Prerequisite: None

Using cinema, an important modern art form, students will explore cultural perspectives through cultural products. This course is designed to allow further cultural exploration in conjunction with language courses. This course may also help students develop a connection with one of the target languages offered at AVHS, giving them the confidence to pursue another language.

# OTHER ELECTIVES

## **Yearbook 1** F-1591, W-1592, S-1593

Grades: 9-10-11-12

Prerequisite: Prerequisite: Strong performance in 8<sup>th</sup> grade English or permission of instructor

Students learn journalistic copy writing for a yearbook, apply photo journalism techniques, page layout and design, ability to edit both copy and page components. Each student works independently on their separate assignments after practice copy writing and page assignments. Essential to writing a good story is the ability to interview for in-depth information. Taking photographs of the unique and exciting moments of activities and sports make stories come to life in the yearbook pages.

Students learn proper format and design for a good yearbook and understand the importance of planning pages and meeting deadlines. The yearbook staff prepares pages using an online program provided by the publisher. "Real life" deadlines established by the publisher determine due dates for each step of completing the entire yearbook so it can be distributed in the spring. Cocurricular activity time is needed to complete assignments, and especially, to attend events outside of the school day.

## **Yearbook 2** F-1594, W-1595, S-1596

Grades: 10-11-12

Prerequisite: Yearbook 1 or permission of instructor

Second-year yearbook students have assigned positions on the staff with specific responsibilities in the production process. These will include marketing and sales, layout and design, copy, photography coordination, develop, read, and edit, set up specifications on the computer programs, schedule and maintain deadlines, and contacting past and potential advertisers. Yearbook 2 emphasis will be on management within one area of responsibility and on teamwork. Coordinating assignments with copy and photography in a customized layout will require knowing each staff member's role, and meeting deadlines.

Students will organize and coordinate the distribution of the yearbook in late May and work on the Spring Supplement. Time outside of class as a cocurricular activity is required.

## **Yearbook 3** F-1597, W-1598, S-1599

Grades: 11-12

Prerequisite: Yearbook 2 or permission of instructor

This course is designed for third-year yearbook students with the responsibility of an editor. Budget and personnel management is a major focus, along with final responsibility for completion of pages for deadlines. Students will proof, edit work done by class members. During trimester 2, they will meet with the publisher's representative and coordinate assignments with staff. Students will work with staff in their editorial positions and meet two publication deadlines. The final trimester will have students team with the teacher/advisor in training and evaluating for promotion second- and/or first-year staff members.

In addition to their editorial responsibilities, editors will work in a mentor role with other staff. They will complete the final pages for the current book, assist in developing the following year's theme and cover design, and oversee the distribution of the yearbook in late May. Cocurricular work outside of class is required.

# SCHOOL OF ENVIRONMENTAL STUDIES

The School of Environmental Studies (SES) is part of the award-winning Rosemount-Apple Valley-Eagan Public Schools, which provides boundless opportunities and infinite possibilities for students to learn and grow. SES is a magnet school for 11<sup>th</sup> and 12<sup>th</sup> graders, partnered with the Minnesota Zoo, that is committed to giving students a rigorous academic experience centered around understanding our environment in a dynamic way:

- We use an interdisciplinary model to present students with different themes which focus on the systems of nature and human interactions with them.
- We emphasize collaborating with others, learning to listen, and creating solutions that consider a variety of perspectives.
- We are committed to cultivating curiosity and independence in students.
- Students have opportunities to learn through more traditional means, however, we believe the depth of learning is enhanced when students are able to get out of the classroom and have experiences in our environment.

## Thematic Studies

Students spend half their day, every day, in their Thematic Studies course (House), where they earn three credits (language arts, social studies, and environmental studies) through an integrated, interdisciplinary curriculum. The other half of their day is spent participating in two 88-minute periods, called blocks, in non-house courses that meet every other day. The school days are designated as *Sky* and *Earth* to help keep track of the every other day schedule. Below are examples of possible student schedules.

## Earth Sky Courses

The other half of their day is spent participating in two 87-minute periods, called blocks. These *Non-House Courses* fit into two categories: *Earth-Sky Courses* and *Career Development Courses*. Additionally, students can take elective courses, not offered at SES, at their *Home High School*, which is either AVHS, EHS, EVHS, RHS, based on district boundaries. *Students that do not live within the ISD 196 boundaries will be randomly assigned to one of the four high schools.*

*Example of a full time SES schedule*

	Earth Day	Sky Day
Block 1	AVID 11	AP Psych
Block 2	Algebra II	Chemistry
Block 3	Thematic Studies (House)	Thematic Studies (House)
Block 4		

### Career Development Courses

These courses meet for 87-minutes EVERY day and are therefore worth two credits per trimester, rather than the single credit earned by an Earth-Sky course. These courses are open to students at SES and throughout district 196. At SES we host Career Development Courses in the areas of Animal Sciences, Forensic Science, Medical and Health Care: Certified Nursing Assistant, and Music Production.

*Example of SES and career development schedule*

	Earth Day	Sky Day
<b>Block 1</b>	Thematic Studies (House)	Thematic Studies (House)
<b>Block 2</b>		
<b>Block 3</b>	Chemistry	Algebra II
<b>Block 4</b>	Music Production	Music Production

### Home High School Courses

These courses meet for 45-50 minutes EVERY day at one of the four 9-12 district high schools - AVHS, EHS, EVHS, RHS - and each successful trimester earns one credit towards graduation. Students choosing to take one of these courses - such as band, choir, or Japanese - are responsible for providing their own transportation to the other high school during the school day to attend the class. They will be given a short study hall and drive time in their schedule and we will do our best to help create student carpools for those needing transportation.

*Example of SES schedule with home high school classes*

	Earth Day	Sky Day
<b>Block 1</b>	Thematic Studies (House)	Thematic Studies (House)
<b>Block 2</b>		
<b>Block 3</b>	"Skinny" Study Hall / Drive Time	"Skinny" Study Hall / Drive Time
	Japanese at EVHS	Japanese at EVHS
<b>Block 4</b>	Honors PreCalc	Honors Chemistry

# APPLE VALLEY HIGH SCHOOL

14450 Hayes Road  
Apple Valley, MN 55124  
Telephone Number: (952) 431-8200  
Web Site: <https://avhs.district196.org>

## Counseling Staff

Michelle Gustafson - \*Students A-C  
Don Perkins – \*Students D-He  
Val Fogolin - \*Students Hf-Mek  
Lisa Schmidt – \*Students Mel-Roo  
Ellen Perkins - \*Students Rop-Z  
\*Alpha splits based on 2021-2022 enrollments

## Department Chairs

Business and Work Program – Chris Sikich  
English Language Arts – Rose Jagim  
English Language Learners – Tracy Cavalli  
Mathematics - Jeremy Gordon  
Performing Arts – Reid Larsen  
Physical Education, Wellness & Safety Education – Carla Christiansen  
Science – Ed Murray  
Social Studies – Scott Haisting  
Special Education – Cody Casperson and Melissa Buhr  
Visual Arts; FACS; and Technology Engineering & Manufacturing – Chris Porter  
World Languages – David Swanson

## Administration

Mary Kreger, Superintendent  
Drew Mons, Principal  
Pete Buesgens, Assistant Principal

## School Board

Joel Albright  
Art Coulson  
Sachin Isaacs  
Cory Johnson  
Jackie Magnuson  
Sakawdin Mohamed  
Bianca Virnig



**APPLE VALLEY  
HIGH SCHOOL**

A **STEM** school dedicated to  
Academics, Arts & Athletics

