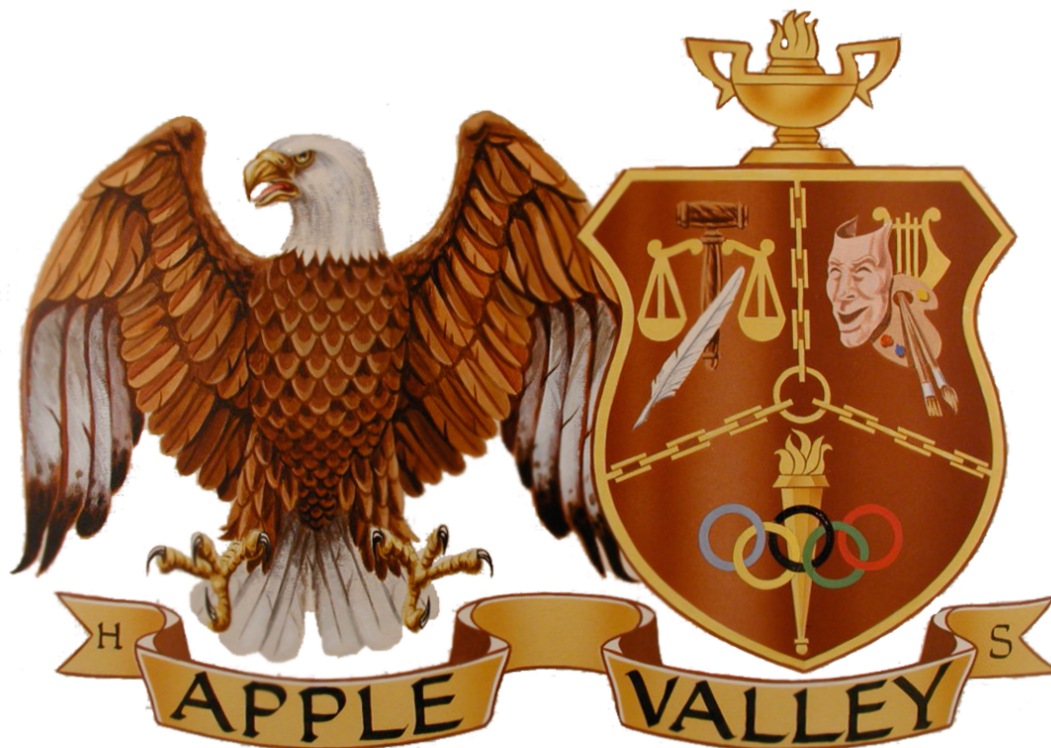


APPLE VALLEY HIGH SCHOOL

9th Grade Student Registration Guide 2023 - 2024



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



APPLE VALLEY STEM HIGH SCHOOL

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

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, Uponor, Wold Architects and others
Individualized academic and career counseling and tutoring in math and science.	

Applications being accepted **now** for students going into 9th grade:

<https://tinyurl.com/e3stemreg>

Apple Valley High School Registration Guide 2023-2024

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Apple Valley High School 2023-2024 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 30, 2023. Any changes needed after January 30 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>

Link to all Registration information online:

<https://avhs.district196.org/academics/registration-information>

*This will include our Registration Course Guide, registration instructions and instructional/informational videos.

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

To the Parents/Guardians of Students entering Apple Valley High School:

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.

Be sure to read the course descriptions carefully before a class is selected at www.district196.org/avhs. When registering online, students enter course numbers, not course names.

AP® and Advanced Placement® are registered trademarks of the College Board. Used with permission.

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 – on-level Speech and English 10A and 10B or Honors Speech and Pre-AP English 10A and 10B - Check the English Language Arts section for exact courses required
- 3 U.S. History or AP® U.S. History fulfills the 10th grade U.S. History
- 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 Citizenship and Government, US History, World History, and Senior elective courses (Economics, Psychology, Sociology, Criminology, Ethnic Studies)
- **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.

Since 2017-18 District 196 juniors are 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 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 varies 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® Computer Science 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

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

- Pre-Advance Placement® English 10A and 10B
- 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 1st 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.

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 one trimester of exploratory art experiences followed by 12 one-trimester courses of in-depth study in Digital Art & Animation, 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).

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.

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 Art 2D

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.

Drawing 1 1043

Grades: 9-10-11-12

Prerequisite: Introduction to Art 2D

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.

Creative Dimensions 1 1049

Grades: 9-10-11-12

Prerequisite: Introduction to Art 2D or 3D

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.

Painting 1 1061

Grades: 9-10-11-12

Prerequisite: Introduction to Art 2D

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.

Photography 1 (Black/White) 1067

Grades: 9-10-11-12

Prerequisite: Introduction to Art 2D

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 candids at all age levels, still lifes, architecture and cityscapes, wildlife, landscape, portraiture, and action photography.

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 is required of students who are not already part of the program.

AVID 9 F-7311, W-7312, S-7313

Grade: 9

Prerequisite: Application, Interview, Teacher Recommendation

BUSINESS AND MARKETING EDUCATION

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.

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).

ENGLISH LANGUAGE ARTS (ELA)

English 9 F-2000, W-2001, S-2002

Grade: 9

The goals of English 9 are to establish a foundation of literary concepts and to review and refine composition, communication, and grammar skills. The language skills of reading, writing, speaking, and listening are strengthened through interdisciplinary, real-life applications. Units include: short story, poetry, novels, drama, various types of composition, public speaking, the research process, vocabulary enrichment, and listening skills.

Honors English 9 F-2003, W-2004, S-2005

Grade: 9

The Honors English 9 course will examine the same content areas as the English 9 course. However, major emphasis will be placed on the in-depth study of literary techniques, devices, and their practical application. In addition, a strong, continuing emphasis will be placed on writing, abstract thinking, analysis, and critical reading. The Honors program offers a more challenging curriculum in both volume and depth for the highly motivated student.

Academic Literacy 9 F-2008, W-2009, S-2010

Prerequisite: Teacher Recommendation

The purpose of this course is to offer 9th grade students the opportunity to develop their academic literacy skills in order 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.**

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 the state of Minnesota ACCESS exit criteria. The goal is for students to acquire English, both socially and contextually, in order to be successful in all content-area classes.

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 TEDS Advanced 9-12 7295

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.

Take your cooking skills to the next level with Gourmet Cooking! You will have the opportunity to be part of a culinary experience like no other. Explore baking and pastries through hands-on labs and fun experiences such as cupcake wars and focaccia art. Additionally, create foods involving chocolate, breads/pretzels, eggs, cheese, fruit and vegetables.

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.

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, OB/GYN, 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 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.***

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.**

Building Healthy Relationships 2524

Grades: 9-10-11-12

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.

MATHEMATICS

MATHEMATICS CURRICULUM

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

*Courses in bold meet typical math graduation requirements

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

*AP® Computer Science Principles and AP® Computer Science are elective course and do not qualify as one of the math credits required for graduation.

Characteristics of a Student Well-Suited for Honors Math Courses

- Has experienced high achievement in past courses without undue stress; has not depended on rote learning or tutoring.
- Is creative. Can think of things to try, or use original methods, when faced with a problem situation.
- Readily applies learned principles to new situations. Can solve novel problems. Responds well to guided discovery.
- 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.
- Likes to analyze, generalize, derive, prove, abstract; to investigate relationships and alternative solutions.
- Has a strong intuitive sense for the subject matter. Sorts out key relationships quickly.
- Shows a high degree of interest and motivation. Is intellectually curious and a critical thinker.
- Works well independently. Seeks help only when necessary. Does not require detailed or repeated teacher directions in order to proceed.
- 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.

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 sections. 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.**

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

Grades: 9-10-11

Prerequisite: Intermediate Algebra and Geometry 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.**

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.

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

Grades: 9-10-11-12

Prerequisite: Concurrent enrollment or successful completion of 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. This year-long course focuses 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.

Introduction to Computer Programming 3524

Grades: 9-10-11-12

Prerequisite: None

A trimester-only course, Introduction to Computer Programming exposes 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 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.**

Other Electives

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

Grades: 9-10-11-12

Prerequisite: Strong performance in 8th 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.

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.

9th 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.

9th 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.

Concert Band F-4054, W-4055, S-4056

Grade: 9

Prerequisite: Previous enrollment in band, new students by audition

The AVHS Concert Band is open to all 9th graders who wish to continue learning music through performance on their band instrument. Students in this class will rehearse various styles of wind music and perform at several required concerts and events. 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. Concert Band is a year-long course. Please register for all three trimesters.

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.**

PHYSICAL EDUCATION, WELLNESS & SAFETY EDUCATION

All students will take three Physical Education classes in 9th grade. These courses may be scheduled in any order:

- Fitness for Life
- Wellness 1
- Safety Education **OR** a Physical Education elective

OPTION A -- Students born on or before November 30th, 2008 should register for 4511 (Safety Ed A), 4522 (Fitness for Life B) and 4649 (Wellness 1C)

OPTION B – Students born on or between December 1, 2008 and March 1, 2009 should register for 4512 (Safety Ed B), 4647 (Wellness 1A), and 4523 (Fitness for Life C)

OPTION C – Students born after March 1, 2009 should register for 4513 (Safety Ed C), 4521 (Fitness for Life A) and 4648 (Wellness 1B). Students in this class must be 15 before they can take the permit exam.

****Please note: We do our absolute best to match Safety Ed courses with birthdays. However, occasional adjustments might be made due to number of students enrolled in each trimester.**

*Students **NOT taking Safety Ed** as 9th graders should register for:

4521 – Fitness for Life A (REQUIRED)

4648 – Wellness B (REQUIRED)

and one of the following (or an elective from another department):

4562 – Strength and Speed for Men

4584 – Strength and Speed for Women

4591 – Cardio Fitness

4596 – Dance + Cardio Mixx

4600 – Basketball Theory

4627 – Total Body Fitness 1

Fitness for Life (4521, 4522 or 4523)

Grade: 9

Prerequisite: None, this class is a prerequisite for all other Physical Education classes

This introductory course will lay the foundation for students to engage in a lifetime of physical activity. This course will explore cardiovascular fitness and strength training through technology. Students will utilize pedometers, heart rate monitors and equipment in the Fitness Center, including elliptical machines and spin cycles. This course also includes the development of fundamental skills, team playing techniques and basic strategies for sport activities. Units will vary by season and trimester. Units may include: team building challenges, soccer, disc golf, ultimate frisbee, touch football, lacrosse, basketball, volleyball, floor hockey, broomball, and softball.

Safety Education (4511, 4512 or 4513)

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.

****Please note: We do our absolute best to match Safety Ed courses with birthdays. However, occasional adjustments might be made due to number of students enrolled in each trimester**

Wellness 1 (4647, 4648 or 4649)

Grade: 9

Prerequisite: None

Wellness 1 incorporates goal setting, decision-making, and refusal skills in the areas of fitness/nutrition, human sexuality, communicable disease, and cardiovascular wellness. This course includes HIV/AIDS and human sexuality curriculum.

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 for men. Students will participate in a supervised program of basic weight training activities based on individual needs. Muscular strength and endurance, speed development, flexibility and conditioning drills will be incorporated into the class.

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 for women. Students will focus on proper stretching techniques, free weights, weight machines, plyometrics, cardio training and speed development as effective training methods for women. Emphasis will be on overall fitness.

Cardio Fitness 1 4591

Grades: 9-10-11-12

Prerequisite: Fitness for Life

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 at 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.

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.

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.

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.

Earth Science F-5010, W-5011, S-5012

Grade: 9

Prerequisite: None

This class is a year-long course required of all 9th grade students. The course is an activity-centered approach to the study of the earth and space. It includes hands-on activities, cooperative learning groups, lectures, videos, and a variety of other methods to help students learn about the earth we live on and the objects in space around us. The topics for the year include: astronomy, plate tectonics, weather and climate, water and soil resources, human impacts on the environment, and innovation.

Honors Earth Science F-5013, W-5014, S-5015

Grade: 9

Prerequisite: Strong Performance in Middle School Science

The Honors Earth Science 9 course is a year-long course that will examine the same content areas as Earth Science 9 but will study the content areas with more depth and breadth. This advanced program is for the science-motivated student and will be more challenging than Earth Science 9.

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.

Science Olympiad: An Introduction to STEM 5060

Grades: 9-10-11-12

Prerequisite: None

This **Science elective course** is designed to encourage students to explore Science, Technology, Engineering and Math through 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

Citizenship and Government 9 F-6010, W-6011, S-6012

Grade: 9

Prerequisite: None

This course is a general survey course that studies the three levels of government: local (including city, village, township), state, and federal. Emphasis is placed on the practical aspects so as to enable students to better understand the democratic system. Students will also understand their rights, duties, and privileges that citizenship in such a system provides. This course is also designed to give students a better understanding of themselves by evaluating their interests, aptitudes, and scholastic ability. With this information students will explore the world of work and develop a technique to research occupations and their varying qualifications, requirements, and economic impact.

Honors Citizenship and Government 9 F-6013, W-6014, S-6015

Grade: 9

Prerequisite: Strong performance in middle school Social Studies

Honors Civics and Citizenship is a year-long course that will examine the same content areas as the regular Civics and Citizenship course sequence but will study the content areas with more depth and breadth. This advanced program is for the motivated student and will be more challenging than the regular Civics and Citizenship course with its increased amount of independent work and use of a college level textbook in addition to the regular text.

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.

Communication Intervention Disorder (CID Center Based)

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

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

Communication Intervention Program (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

Deaf and Hard of Hearing (D/HH)

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

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

Developmental and Adaptive Physical Education (D/APE)

Grades: 9-10-11-12

Prerequisite: Child Study Team recommendation

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

Developmental Cognitive Disability (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: 9-10-11-12

Prerequisite: Child Study Team recommendation

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

Specific Learning Disability (SLD)

Grades: 9-10-11-12

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 in the woods lab. 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. When this class becomes overloaded, preferences will be given to students registered for a full year of Woods Technology courses.

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.

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. When this course becomes overloaded, preferences will be given to students registered for a full year of Metals Technology courses.

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.

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***

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***

ENGINEERING AND PRE-COLLEGE ENGINEERING COURSES

Introduction to Engineering 3030

Grades: 9-10-11-12

Prerequisite: None

This one-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 of bridges and projectile machines 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.

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/Career Exploration Program (WE/CEP)

Grade 9: F-0674, W-0675, S-0676

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 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

Beginning French

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.

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.

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.

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 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.

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-Co
Don Perkins – *Students Cr-Hi
Val Fogolin - *Students Hj-Mn
Lisa Schmidt – *Students Mo-R
Ellen Perkins - *Students S-Z
*Alpha splits based on 2022-2023 enrollments

Department Chairs (2022-23)

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 – 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

