

Vinton-Shellsburg High School



2023-2024 Registration Guide

“Planning for your Future!”

TABLE OF CONTENTS

Vinton-Shellsburg High School – Principal’s Welcome	2
Note to Students & Parents	3
Student Registration Process	3
V-S HS Graduation & Early Graduation Requirements	4
Four Year Planning	4
V-S HS Courses	5-6
Alternative Concurrent Enrollment Option	7
Career Academies	7
V-S HS Co- and Extracurricular Activities	8
Vinton-Shellsburg High School Course Descriptions	
Fine Arts (Music, Art)	9-11
Foreign Language	12
Language Arts	13-15
Mathematics	16-17
Science	18-19
Social Studies	20-21
Physical Education/Health	22-23
Career & Technical Education	
Agriculture Education	24-26
Business Education	26-27
Computer Education	28
Family and Consumer Science	28-30
Industrial Technology	30-32
Career and Work Readiness	36
Special Programs	
Special Education	37
Expanded Learning Program (ELP)	37
V-S Alternative HS Program	37
Senior Year Plus	38

Welcome to Vinton-Shellsburg! We are a comprehensive high school of approximately 450 learners. We strive to meet the needs of young people through a variety of academics and activities. We offer a full complement of multiple course offerings, along with co-curricular and extracurricular activities.

As a student, the most important step that you will take will be the next one. The process of making the transition from where you are now, to where you will be next year begins right now.

This guide to registration will assist you in designing a schedule of classes that will prepare you for your future. We will be asking you to complete a plan for your future, which will link your program of studies to your career interest. We believe the more focused and goal oriented you are as you progress through high school, the more prepared and successful you will be. It is important that you review the current V-S graduation requirements, clearinghouse requirements, specific college entrance requirements, and further suggestions from your teachers, counselor, advisor, and principal.

On behalf of the high school staff, we want you to know that we are committed to continually updating our curriculum, which includes offering relevant content and utilizing a variety of effective instructional styles. To be successful and competitive in post-secondary experiences, you should come to school each day with an attitude of making an investment in your future. The best possible learning environment is one in which all educators and students are intrinsically motivated to be the best.

I wish you the very best in preparing for the post-secondary experience of your choice. Consider your education at Vinton-Shellsburg an investment in your immediate future. Your chances of success will be directly proportional to your efforts here at Vinton-Shellsburg High School.

Best wishes,

Mr. Kingsbury
High School Principal

NOTE TO STUDENTS & PARENTS:

All information contained in this 2023-2024 Registration Guide is current as of February 2023. Due to various internal and external factors that may occur after printing this registration guide, please consider the process of student registration a fluid one. Changes in personnel, federal and state requirements, and budgetary constraints are all factors that force the guidance department and/or principal's office to make changes during the process. This may include altering, adding, dropping or alternate year scheduling of the course offerings that are listed in this registration guide. We appreciate your patience and understanding.

To accommodate all persons, the high school office will release addendums, when appropriate, to supplement this guide to registration. Those addendums will be announced to students and published on the high school's website.

STUDENT REGISTRATION PROCESS

Students may elect to register for any Vinton-Shellsburg High School course with appropriate academic preparation including successful completion of prerequisites. All students must be registered for eight class periods per semester, one of which may be study hall or release. The only exception to this rule is for students who are taking an Academy or Alternative Concurrent Enrollment Course.

Student class schedules are established through a series of steps that include student choice and consultation with parents, guidance counselors, and teachers.

1. Students meet with the assigned teacher-advisor to review the student's individual academic and career plans, and the registration process.
2. Students will then select their courses for the next academic year. This selection will be sent home for the parent's signature of approval then returned to the student's advisor for their signature.
3. The students will then enter their classes on the PowerSchool online registration link. After this is complete, the master schedule will then be generated based on course load, and what is best for all students.
4. Students registering for classes that are full or classes for which they don't have the proper prerequisites will have to select alternate courses.

After consultation with a guidance counselor/academic advisor and parents, students may request to change their 1st semester schedule by the end of the fourth day of school. Any changes in their schedule for semester two, except those which are necessary due to the failure of a prerequisite class, or a class needed for graduation that year, must be made by day four of the 2nd semester. Students who drop classes after these deadlines will receive an "F" from VSHS in the class dropped for the appropriate semester, even if it is an Alternative Concurrent Course (college credit).

V-S GRADUATION REQUIREMENTS

To graduate from Vinton-Shellsburg High School a student must earn 27 credits from the following academic areas:

A maximum of 9 credits can be earned from classes held at V-S HS each year. Graduates will have successfully completed:

<p><u>16 Required Credits</u> English/Language Arts: 4 Science: 3 Social Studies: 3 Mathematics: 3 Physical Education: 2 Computer Skills Course .5 Personal Financial Management: .5</p>
<p><u>After completion of the required credits, the remaining credits are considered elective credits.</u></p>

EARLY GRADUATION

Students who meet the graduation requirements set by the Board of Education prior to the end of their senior year may apply to the Board for early graduation. Students must attend the first semester of their senior year. Students who graduate early become alumni of the school district and are not allowed to participate in school activities, except for graduation ceremonies and prom. Application deadline: Prior to the January board meeting. In order to graduate at the end of the 1st semester, a completed Early Graduation Application will need to be turned into the Guidance Office by a specified date, which will be communicated in daily announcements.

FOUR YEAR PLANNING

The general required course schedules are listed below. Elective courses are dependent upon a student's interests and future plans and are added to each year's required courses to complete a student's schedule. A specific guide to suggested course selection for students interested in 2- or 4-year colleges can be found on Page 5 of this registration guide or at <http://www2.state.ia.us/regents/rai/>. In addition, the following links may be useful when planning for your future: www.ncaa.org, www.naia.org

Freshman	Sophomore	Junior	Senior
English 9 A&B	English 10 A&B	English 11 / Comp. 1	2 English Electives
Integrated Science 1 & 2	Biology A&B	English Elective	World History II
American History I	American History II	Economics	Government
Math	Math	World History I	Physical Education
Physical Education	Physical Education	Math	
Computer & Workplace Skills (May be taken as Fr. or Soph.)	Computer Science Principles (May be taken as Fr. or Soph.)	General Science 3 and additional science, or Physics A & B	PFM (May be taken Jr. or Sr. year)
		Physical Education	

VINTON-SHELLSBURG HIGH SCHOOL COURSES

(Courses in **BOLD** print are required courses for graduation from V-S HS)

(Courses in *ITALICIZED* print meet RAI requirements under the listed subject area)

English	Social Studies (cont.)	Mathematics
<i>1501 English 9A</i>		1981 Integrated Geometry A
<i>1502 English 9B</i>	<i>172 World History I</i>	1991 Integrated Geometry B
<i>152A English 10A</i>	<i>173 Economics</i>	<i>200 Algebra IA / 201 Algebra IB</i>
<i>152B English 10B</i>	<i>174 World History II</i>	<i>202 Algebra IIA / 203 Algebra IIB</i>
154 English 11	<i>175 American Government</i>	<i>204 Geometry A / 205 Geometry B</i>
<i>155 Generation Literature</i>	<i>176 Psychology</i>	209 Math Topics
<i>156 Genres of Literature</i>	<i>177 Sociology</i>	<i>210 Adv. Math. A / 211 Adv. Math B</i>
<i>158 Dramatic Literature & Stage</i>	<i>178G Contemporary Iss. & Geog.</i>	212 Finite Math
<i>159 American Literature (Survey)</i>	<i>179 World Religions</i>	213 Non-Proof Geometry
<i>160 World Literature</i>		214 Basic Statistics
<i>162 Creative Writing</i>	Science	
<i>164 Public Speaking</i>	<i>1936 Integrated Sci. A</i>	
165 ,166 Journalism A / B	<i>1937 Integrated Sci. B</i>	
168 Ind. Study of Literature	<i>180 Biology A</i>	
	<i>181 Biology B</i>	
	<i>1831 Comparative Biology</i>	
	<i>1841 Cell Biology</i>	
	<i>1851 Human Biology</i>	
Additional Required Courses	<i>185 Human Anat. & Physiology A</i>	Physical Education
228 Computer/ Workplace Skills or	<i>186 Human Anat. & Physiology B</i>	3261,2 General Physical Education
2281 Computer Sci. Principles	<i>187 Chemistry A</i>	32611 Unified PE (One Sem. Only)
263 Personal Financial Mgmt.	<i>188 Chemistry B</i>	3271,2 PE – Strength and Cond.
Social Studies	<i>189 Physics A</i>	32711, 21 PE- Early Str. & Cond.
<i>170 American History I</i>	<i>190 Physics B</i>	3281,2 PE - Personal Fitness
<i>171 American History II</i>	1935 Forensic Science	
Electives		
222 General Business	2651 Intro to ACE	285 Intro. to Family Consumer Science
223 Business Law	266 Metals / Small Gas Engines	286 Creative Sewing
224 Marketing	2671 Comp. Aided Drafting	2861 Creative Sewing 2
233 Accounting	268 Architectural Drafting	288 Foods I
235 Advanced Accounting	271 Fundamentals of AC/DC	289 Foods II
	272 Basic Electronics	290 Health I
<i>241 Spanish IA</i>	2731 Auto Ownership	291 Health II
<i>242 Spanish IB</i>	2741 Construc. Mat. Process.	292 Child Develop. /Parenting
<i>243 Spanish IIA</i>	2751 Construction Technology	293 Housing & Interiors
<i>244 Spanish IIB</i>	276 Industrial Metal Working	2941 Interpersonal Relationships
<i>245 Spanish IIIA</i>		
<i>246 Spanish IIIB</i>		
<i>247 Spanish IVA</i>		
<i>247B Spanish IVB</i>		

Electives	Electives	Learning Centers
300 Basic Art	365 Intro. to Engineering & Design A	001 Jackson – Sem. 1
302 3-Dimensional Form I	366 Intro. to Engineering & Design B	002 Jackson – Sem. 2
303 3-Dimensional Form II	368 Prin. of Engineering A	
304 Drawing & Painting I	369 Prin. of Engineering B	021 Hammersley – Sem. 1
305 Drawing & Painting II	374 Civil Engineering & Architect. A	022 Hammersley – Sem. 2
306 Graphic Design I	375 Civil Engineering & Architect. B	
307 Graphic Design II	3771 Software Engineering A	031 Hammond – Sem. 1
310 Portfolio I	3771 Software Engineering B	032 Hammond– Sem. 2
311 Portfolio II	3911,2 Entrepreneur A & B	
3151, 3161 Instrumental Music	3921,2 Entrepreneur 2A & 2B	041 Lough – Sem. 1
3181, 3191 Treble Choir	236 Internship (1 st Sem)	042 Lough – Sem. 2
3211, 3221 Concert Choir	237 Internship (2 nd Sem)	
339 Agriculture Education IA	237A Pre-Apprenticeship	051 Zuspenn – Sem. 1
340 Agriculture Education IB	2371 Apprenticeship - Nursing	052 Zuspenn – Sem. 2
342 Animal Science	2372 Apprenticeship - Welding	
3421 Adv. Animal Science		
343 Veterinary Medicine	Non-Credit Courses	Make Up Courses
344 Natural Resources	312 SH - (1 st Sem.)	1521 English 10AM
345 Landscape Design	313 SH – (2 nd Sem)	1522 English 10BM
3451 Plant Science	361 Sr. Release – (1 st Sem.)	1523 English 10CM
346 Aqua Science	362 Sr. Release – (2 nd Sem.)	1932 Gen. Science 1M
3473 Greenhouse Management		1933 Gen. Science 2M
348 Ag. Business Management		
3481 Ag. Independ. Study	498 Alt. Concurrent Placeholder (1 st Sem.)	
	499 Alt. Concurrent Placeholder (2 nd Sem.)	

Dual Credit Courses @ V-S HS		Dual Credit Courses Off-Site <i>All are Academies</i>
349 Principles of Agronomy		281 Auto Collision
350 Precision Farming Systems		364 Health Sci.-Pharm. Tech.
2153 Applied Math		370 Health Sci.-Dental
216 Calculus		360 Adv. Manuf./Eng. Tech.
2154 Statistics		328 Health Sci.-EMT B
325 Composition I		282 Auto. Tech.
3252 Composition II		
692 Fundamentals of Oral Communication		
329 US History to 1877		
3291 US History since 1877		
295 Health Sci. Academy-Patient Care		A list of all Academy courses can be found at:
365, 366 PLTW - IED A&B		Kirkwood.edu/linnregional
368, 369 PLTW - POE A&B		
374, 375 PLTW - CEA A&B		
3771, 3772 PLTW - Software A&B		
395 Music Appreciation		

ALTERNATIVE CONCURRENT ENROLLMENT OPTION

The Alternative Concurrent Enrollment Option allows students to take courses at an eligible Iowa college provided they meet the college's requirements for enrolling in the course and have the proper permission forms from V-S HS signed and turned in by the deadline. The purpose of the program is to promote rigorous educational pursuits and to provide a wide variety of options for students. V-S HS students interested in this option should speak to their counselor to receive both course specific information and enrollment instructions. Students receive V-S HS course credit as well as college credit. The grade will be included on both the V-S HS and college transcripts, be calculated in both GPA averages, and be used at V-S HS for determining eligibility for other programs/options (extracurricular activities, senior release, etc.)

On days that a college course does not meet, a senior student taking an off-campus class is not required to be at the high school during the periods that they have scheduled for their college course. An underclassman is required to report to study hall during the corresponding periods that the college class is not in session. Any student taking an online course is required to report to their assigned study hall or other supervised area at the start of the period.

CAREER ACADEMIES

In cooperation with Kirkwood Community College, V-S HS students are able to participate in Career Academies which earn both high school and KW college credit. To see a complete list of the Academies available for 2023-2024 as well as their prerequisites, follow the steps below.

1. Log on to www.kirkwood.edu/linnregional
2. Click on the "High School Students" link
3. Under the heading High School Students click on the "Download the entire academy packet" link

If you want to take an academy, you need to see a guidance counselor ASAP to register for the Academy.

CREDIT CONVERSIONS FOR ALTERNATIVE CONCURRENT ENROLLMENT & ACADEMY CLASSES

<u>College Hours</u>	<u>V-S HS Credit</u>
.5	.08
1.0	.17
1.5	.25
2.0	.33
3.0	.50
4.0	.68
5.0	.83
6.5	1.08

Any student desiring to enroll in any concurrent enrollment course or career academy is subject to the requirements of the State of Iowa's Senior Year Plus Initiative. See state guidelines on the last two pages of this document.

VSHS Co-Curricular Activities

These are activities which have a direct link and are an integral part of a specific curriculum or class.

FFA	Instrumental Music
Concert Choir	Newspaper “Viking Voice”
Treble Choir	Yearbook “The Arrow”

VSHS Extra-Curricular Activities

Student Senate	Football
National Honor Society	Volleyball
Jazz Band	Boys / Girls Wrestling
Chamber Choir	Boys/Girls Cross Country
Individual & Large Group Speech	Boys/Girls Swimming
Debate	Boys/Girls Basketball
Fall Musical/Spring Play	Boys/Girls Golf
Reality Check	Boys/Girls Track
Fellowship of Christian Athletes	Boys/Girls Soccer
Archery	Baseball/Softball
	Boys/Girls Trap Shooting
	Boys/Girls Bowling
	Cheerleading
	Voyagers
	Trapshooting

Vinton-Shellsburg High School Course Descriptions

FINE ARTS

Instrumental Music (.5 credit per semester)

Band begins in late summer with marching band “camp”. Throughout the first trimester, band students may be expected to attend extra marching rehearsals, most likely before school or an occasional Saturday. During marching band season, class begins every day at 7:15 a.m. During concert band season, class begins every day at 8:00 a.m. Students perform a variety of literature in many styles to develop an understanding and appreciation of a wide range of music. Students who register for band are expected to participate all year.

Student Expectations

- **Dress:** Students will provide black marching shoes for their issued uniform. An \$8.00 uniform cleaning fee is charged at registration. Students are also required to provide a white t-shirt (with sleeves) and black socks for their uniform.
- **Care of school and personal property:** Proper care of the uniform, music and instruments is always a priority. Fines will be issued to persons showing neglect or improper use of these items. Please see the Band Handbook for description of fines. Rental of school owned instruments is \$30.00 per semester.
- **Performances:** All band members perform at all home football games and numerous concerts in Vinton, festivals in other towns and 5-6 pep bands for winter sports. A required performance schedule is in the Band Handbook. PLEASE READ THE HANDBOOK CAREFULLY FOR POLICIES AND INFORMATION.
- **Lessons:** In a group the size of a band, the only way to assess individuals is in individual student lessons. Students will attend 5-6 lessons per semester. Their achievement and progress will be documented in their individual student portfolio. Students need to provide Advanced Method Vol. I and Vol. II by Rubank, as it will serve as their lesson book. Please see the Band Handbook for more information.

Other instrumental opportunities: All students are encouraged to audition for Jazz Band. The Jazz Band will perform in concerts and out-of-town festivals. Rehearsals are Mondays and Wednesdays from 6:44-7:45 a.m. Solo and small ensemble performances are available mainly in the spring at State Solo/Ensemble Festival but also throughout the year at local civic and church events. Students will also have the opportunity for participation in the Iowa All-State auditions and many honor bands, including the WaMaC Honor Band, NEIBA Honor Band, Iowa State University Honor Band, Northern Festival of Bands (UNI), and the University of Iowa Honor Band.

Vocal Music (.5 credit per semester)

Students registering for vocal music will participate in one of two curricular choirs – Treble Choir or Concert Choir. Treble Choir is scheduled at the same time as Band, so students in both will enroll in Concert Choir. First year treble voices not in band will be enrolled in Treble Choir. After the first year, those students may choose either ensemble. Choir students will work on healthy vocal techniques, increase theory and historical knowledge, build sight-singing skills, and work together as an ensemble. Literature from the major historic time periods, that of great and lesser-known composers and a wide variety of vocal styles will be studied in a four-year curricular cycle. Each choir member, regardless of skill level, is expected to show improvement with continued rehearsal and performance. Students who register for Vocal Music are expected to participate all year.

Student Expectations

- **Performances:** A calendar of required performances is included in the vocal music handbook handed out in August. Two required performances per semester are scheduled. In addition, all eligible students meeting acceptable performance standards will participate in the State Large Group Festival held in May. Other opportunities may include singing at school assemblies, vocal festivals and community performances.
- **Concert Dress:** All students are assigned a VSHS choir robe at the beginning of the year, which serves as their performance uniform. In addition, all singers will need to wear a dark shirt without a collar, black dress slacks/trousers, black socks, and black shoes that are close-toed and flat (no heels). A robe-cleaning & maintenance fee is collected at school registration each year.
- **Lessons:** Lessons are required to monitor and assess individual student progress. Each student is expected to attend a minimum of 7 lessons per semester. Students are scheduled individually during the school day on a weekly or bi-weekly lesson rotation.

Other vocal opportunities: Students are also encouraged to be involved in extracurricular activities, such as: Honor choirs, national anthem performances, Opus and All-State auditions, treble and bass clef small ensembles, State Solo and Ensemble Festival, and Chamber Choir. Students have the opportunity to earn a varsity letter in choir by earning points through participating in these extra events. Those points accumulate as you participate in vocal music activities throughout the year and carry over from year to year.

- Chamber Choir - This auditioned group of students will have the opportunity to work on advanced vocal techniques in a select ensemble. Students will perform upper-level high school literature, collegiate level music and learn techniques for various styles of music including vocal jazz. Rehearsals are on Tuesday & Thursday mornings at 6:45am. Students must be enrolled in one of the curricular choirs to participate.

ART

Basic Art (.5 credit)

This is an entry level art course. Students will use the elements of art and art history as their structure for study. Each unit includes a focus on one or more of the elements along with contemporary and historical references. Throughout the semester students do art projects sampling various media such as drawing, painting, ceramics, and printmaking. Information and practice is attained through sketch time, videos, slides, and skill-building exercises. Grades are given per project as well as points given daily for sketchbook work, skill-builder exercises and studio habits.

Drawing and Painting I, II (.5 credit each) (Prerequisite for Drawing II is Drawing I)

Drawing and Painting are combined in one class, as the two processes tend to overlap and enhance each other. The class will offer an in-depth exploration of the fundamentals of drawing using various media such as pencil, charcoal, conte' crayon, oil pastels, chalk pastels, ink and other non-traditional materials. Mixed media work is encouraged. A variety of painting techniques and media are also explored. A study of color theory is required. Emphasis is placed on increasing awareness of composition, technique, and personal expression. Additional materials such as oil paint, ink and watercolor wash may be introduced in D&P II.

Three-Dimensional Form I, II (sculpture/ceramics) (.5 credit each) (Prerequisite for 3-D Form II is 3-D Form I)

This class involves creating 3-dimensional projects. Attention will be given to formal design elements and principles in abstract work. Representational work is also encouraged. Materials may range from plaster, wood, wire, clay, wax, plastics, metals and non-traditional found objects. There will be one unit specifically on hand-building clay techniques. 3DII will also include wheel throwing and artist investigations to increase student knowledge of sculptural possibilities. Along with project grades, daily points are given for sketchbook work, skill-building activities and studio habits.

Graphic Design I, II (.5 credit each) (Prerequisite for Graphic Design II is Graphic Design I)

This course is designed to teach students traditional graphic design skills using various computer design programs. Exposure and use of the elements and principles of design as well as color theory and personal design aesthetic will be explored. Use of computers daily is required. This class is open to all students and teaches skills that have practical future applications in many careers. Any student considering a design career, publishing, commercial art, advertising, marketing and/or fine art should take this class as preparation for future education in any of these fields.

Portfolio Class I, II (.5 credit each) (Prerequisite: At least four art classes, two of which need to be in one medium)

Students develop portfolio material for the purpose of obtaining opportunities for college entrance, jobs, and exhibitions. Group critique and response are critical skills and fundamental activities for this class. Advanced art topics are discussed. Priority is given to those students considering the art field after high school and/or those excelling in previous art classes.

FOREIGN LANGUAGES

For all foreign language classes, each half of the course serves as the prerequisite for the next half of the course in the sequence. For example, Spanish 1A must be passed in order to take Spanish 1B.

Spanish I A & B (.5 credit per semester)

This beginning foreign language class is an elective open to all students grades 9-12. The emphasis is on communication in Spanish. Although speaking is strongly emphasized, reading, writing, and listening are also important. Daily written and speaking practice, both in and out of class, is expected for maximum success. Topics will include family, numbers, calendar, school, activities, and food. Culturally speaking, the student is exposed to the Spanish-speaking areas of the U.S. and the world and learns how Spanish can be a useful skill in daily living.

Spanish II A & B (.5 credit per semester) (Prerequisite: Spanish IB)

The class is conducted more in Spanish than the first-year class with the student being expected to comprehend and use the language in a larger variety of situations. Dialogues and readings focus on the culture of Hispanic countries. Supplementary materials are used to encourage active participation by all students. Students learn to speak, read, listen and write in Spanish. Daily written and speaking practice, both in and out of class, is expected for maximum success. It is STRONGLY recommended that students have C's or better in Spanish I to continue to Spanish II.

Spanish III A & B (.5 credit per semester) (Prerequisite: Spanish IIB)

Students will expand their Spanish vocabulary and will work to express themselves with greater ease in the language, in increasingly more complex situations. Vocabulary and conversation topics will include childhood, friends, travel, art, health and fitness, foods and dining. Students will read selections related to cultural topics and themes as well as short literary pieces. Additional verb tenses will be introduced to aid and improve the student's communication in the language. Daily written and speaking practice, both in and out of class is expected for maximum success. It is STRONGLY recommended that students have C's or better in Spanish II to continue to Spanish III.

Spanish IV A & B (.5 credit per semester) (Prerequisite: Spanish IIIB)

Oral communication continues to be emphasized so that the student can now use Spanish almost exclusively during class. We will continue to refine communication skills and expand vocabulary related to unit themes that will include future plans, survival skills for travel or work in a Spanish speaking country, shopping and entertainment. Students will read selections related to cultural topics and themes as well as short literary pieces. Students will continue to broaden their understanding of all Spanish speaking areas. Daily written and speaking practice, both in and out of class is expected for maximum success. Satisfactory completion of Spanish IV satisfies the language requirements in some colleges. It is STRONGLY recommended that students have C's or better in Spanish III to continue to Spanish IV.

LANGUAGE ARTS

English 9 - A & B (.5 credit per semester)

This course builds upon student's prior knowledge of grammar, vocabulary, work usage, and the mechanics of writing and usually includes the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

English 10 - A & B (.5 credit per semester)

This course offers a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Course will also include improving students oral communication skills through the use of listening, analyzing and speaking.

English 11 (.5 credits) (Prerequisite: English 10C)

This course will be based on the assumption that students know the essential skills learned in English 10C. The course will give the students more practice in developing their writing skills, with increased emphasis on expository writing, movie and book reviews, persuasive writing, and researching skills.

Generation Literature (.5 credit) (Prerequisites: English 10, instructor approval)

This course will enable students to experience a variety of literature showing how people choose to cope with complex situations in life. There will be an emphasis on 20th century literature. Students will be required to keep up with the reading and will have frequent quizzes. Some writing will be required along with a working knowledge of vocabulary, literary terms, and the function of both. Emphasis will be on discussion and class interaction. This course is designed for students who have trouble meeting with success in the traditional language arts course.

Journalism A & B (.5 credit per semester) (Prerequisite: English 10)

Students with a **finely tuned work ethic** will work in an intense news lab situation. Success in this class requires hard work and dedication in producing the school's yearbook & newspaper, THE ARROW & the VIKING VOICE. The course is rigorous with a **deadline-oriented focus** on all aspects of various publications. Participants will learn journalistic writing, interviewing techniques, layout and design, headline writing & fitting, photojournalistic principles, and desktop publishing. Learning-by-doing will be the method used to facilitate all phases of the publishing experiences in a natural work setting, where there are editors above staffers with each working toward and responsible for project completion.

Public Speaking (.5 credit) (Prerequisite: English 10)

This is a course for students who want more knowledge and experience with public speaking situations. The primary emphasis will be placed on the performance of the individual student. Entertaining and informative speeches, persuasion, debate, interpretive reading, and radio and television speaking are the units, which are covered in the course. This is a good elective for any student who plans to go on to any kind of post-secondary schooling.

Dramatic Literature (.5 credit) (Prerequisites: English 10)

The emphasis in this course will be on reading dramatic literature and exploring acting and technical theater. Students will be asked to perform scenes, analyze characters, experiment with technical theater and evaluate plays for production. Participation in class will be an important evaluation element.

Genres of Literature (.5 credit) (Prerequisites: English 10)

The course involves the reader with literature as a mirror of the self and one's culture and establishes reading and literature as an activity of value throughout a lifetime. The focus is on classical literature and authors. The student will explore a variety of literary genres including some of the following: short stories, the novelette, drama, film, and poetry. Through story analysis, students will review and increase their understanding of the literary tool's authors use in their writing. "Reading along" as a strategy will help improve reading skills. Class participation and writing will be required.

American Literature (.5 credit) (Prerequisite: English 10) (Prerequisite for World Literature)

This is a course in which the student's American heritage is studied through literature. Works from approximately 1600-1900 are studied in chronological order or reverse chronological order in this class. Examples of authors dealt with include Hawthorne, Twain, Wharton, Dickinson, Poe, Whitman, and Longfellow. Significant work is done to introduce and use literary terminology. The course is predominantly a discussion group in which social and moral issues may arise as well as literary issues. Discussion, reading and writing are central to success. Writing and reading journals, as well as two major analytical papers, will be required. This is a prerequisite for World Literature.

World Literature (.5 credit) (Prerequisites: Eng. 11 or Comp. 1 & American Literature)

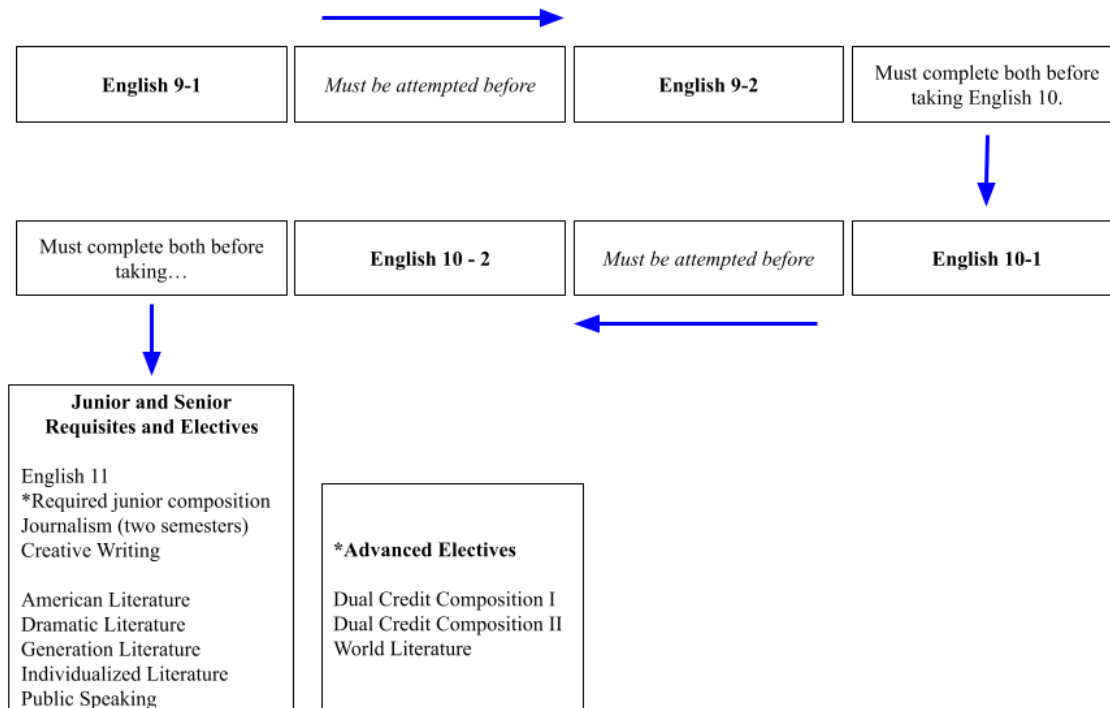
This is a course in which the student will explore Western and British literature and culture up to approximately the 1700's. Works from Greek mythology, legend and classical writings will begin the course. Then, Norse legend, *Beowulf* and *Canterbury Tales* will herald the beginning of British Literature. At the peak, the Renaissance and the works of Shakespeare will figure heavily into the student's course of study. Other world authors touched on will include Dante, Cervantes, Moliere, and Goethe. The course is predominantly a discussion group in which social and moral issues may arise as well as historical and literary issues. Journals and papers are required. The course is designed for students who read, then think, talk, and write about what they have read. (*World Literature comes highly recommended by graduates of V-S HS who enter four-year post-secondary schools.*)

Creative Writing (.5 credit) (Prerequisite: English 10)

This one semester elective is designed for juniors and seniors highly interested in writing. Learners will be expected to produce pieces, which have gone through the writing process. Reading and discussing class written and published materials are critical to this workshop class. Genres such as personal narrative, autobiography, biography, non-fiction, fiction, and poetry may be written.

Individualized Study of Literature (.5 credit) (Prerequisite: English 10)

This is a course designed with the reading goals of Vinton-Shellsburg School district in mind. The class will be just as the title suggests; a time where students may read what they choose, within reason and with certain classroom requirements being fulfilled, on an individualized reading plan. As an example, a college preparatory student might be reading from a recommended reading list for college freshman while a challenged reader in the same class may be reading high interest, low ability material appropriate to his/her reading level. Challenges, however, will be available at all levels.



To graduate, students must complete all required classes plus three electives. One term of English / Literature must be taken each year. One elective must be a literature class. It is highly recommended that college bound students access at least two English classes each year.

Please refer to the Kirkwood Community College catalog for a course description for college-level Composition 1 (ENG-105) and Composition 2 (ENG-106). These courses are dual high school and college credit courses taught at V-S HS. Admission to Comp. 1 requires a 2.8 GPA and admission to Comp. 2 requires successful completion of Comp. 1.

MATHEMATICS

Algebra I A & B (.5 credit per semester)

This course is designed to acquaint the student with solving, graphing, writing linear, proportional and linear equations and inequalities. Also introduced are functions, systems of equations, exponents, radicals, quadratics, and expanding/factoring polynomials. Descriptive statistics are interspersed throughout the course. Problem-solving skills are stressed.

Integrated Geometry A & B (.5 credit per semester)(Requires a qualifying score on the Algebra 1 placement test)

This course replaces Algebra 1 and Geometry. Topics covered will include linear equations and inequalities, exponential functions, quadratic functions, transformations, algebraic and geometric proofs, congruent and similar triangles, trigonometry, and volume of solids.

Geometry A & B (.5 credit per semester) (Prerequisite: See Flow Chart)

This course utilizes explorations, applications, technology, and projects as a means to understand geometric relationships and mathematical relations that can be represented geometrically. Topics included are reasoning, polygon relationships, measurement, spatial shapes, circles, trigonometry, proof and logic, and other geometry topics.

Algebra II A & B (.5 credit per semester) (Prerequisite: See Flow Chart)

The student makes use of the methods and procedures learned in Algebra I and applies them to such topics as functions, relations, inequalities, complex numbers, logarithms, conic sections, sequences, and trigonometry.

Math Topics (.5 credit) (Prerequisite: See Flow Chart)

This course involves discrete mathematics topics and the study of finances. Students will also explore applications of these topics in a real-world setting.

Finite Math (.5 credit) (Prerequisite: See Flow Chart)

Includes methods of solving linear equations and inequalities. Introduces linear programming, matrices, functions, graphs, counting techniques, probability, mathematics of finance and applications.

Advanced Mathematics A & B (.5 credit per semester) (Prerequisite: See Flow Chart)

Included in this course are college-level algebra, trigonometry, analytical geometry, and sequences and probability. College-bound students with high mathematical ability are encouraged to take this course.

DUAL ENROLLED COURSES: (High school and college credit courses taught at VS-HS)
(Requires qualifying score on the ALEKS test)

Applied Math (MAT-772) (.5 credits)

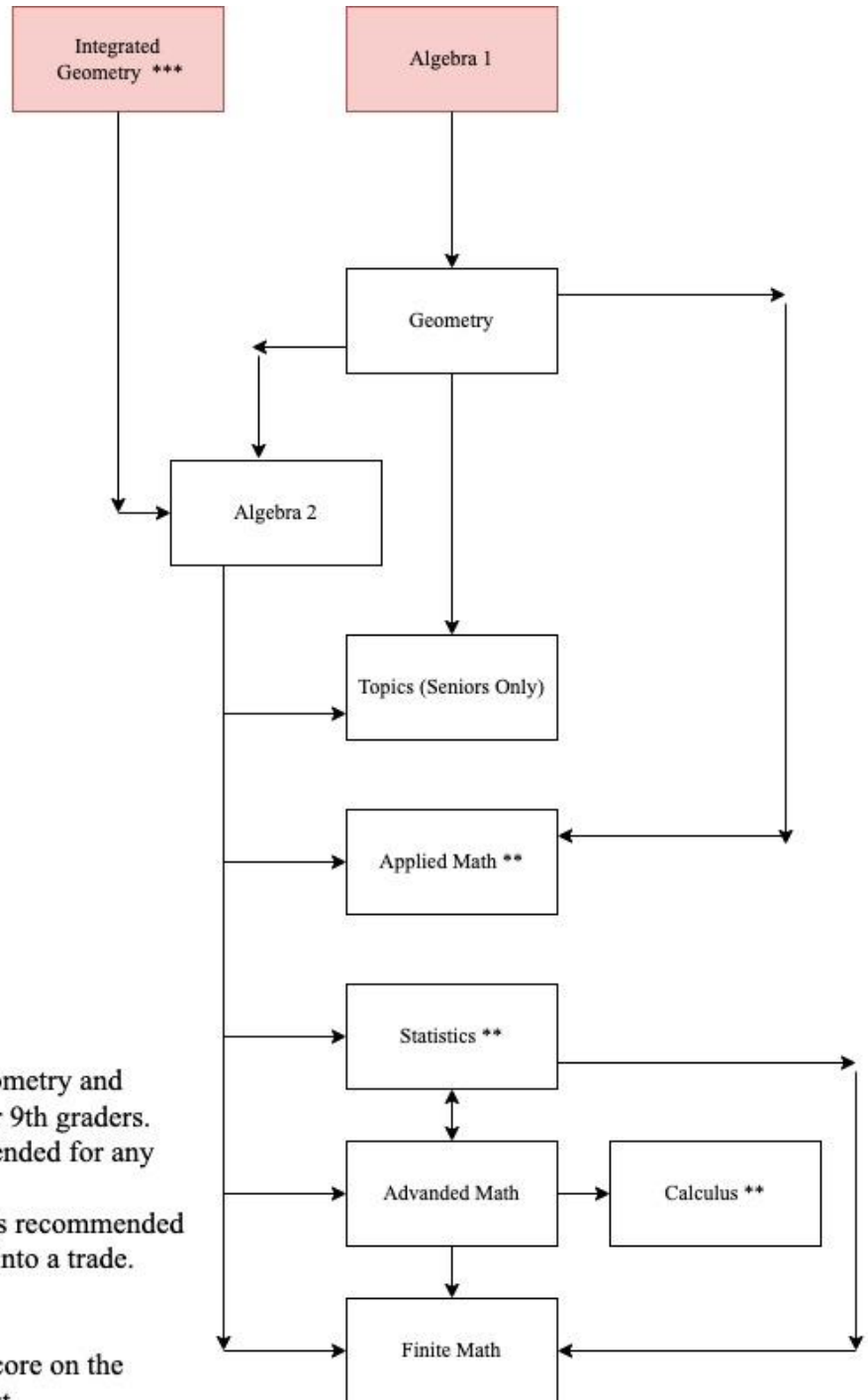
Covers basic mathematical skills for students in career and technical fields. Focuses on computing with whole numbers, fractions, decimals, and signed numbers; percents; evaluating formulas; ratio and proportion as a problem-solving tool; the metric system; measurement; basic algebra; and reading tables and graphs.

Statistics (MAT-157) (.5 credits)

Focuses on descriptive statistics (mean, median, mode, standard deviation and variance) and introduces correlation and linear regression. Emphasizes inferential statistics and probability distributions as applied to confidence intervals, hypothesis testing of means and proportions, and applications to business and other fields.

Calculus (MAT-210) (.5 credits) (It is highly recommended that students take Finite Math prior to taking this course)

Introduction to limits, differentiation, applications of the derivative, the definite and indefinite integral including The Fundamental Theorem of Calculus, and an introduction to differential equations.



Notes:

1. Algebra 1, Integrated Geometry and Geometry are entry level for 9th graders.
2. Applied Math is recommended for any student going into a trade.
3. Finite Math or Statistics is recommended for any student NOT going into a trade.

** Dual-enrolled courses
*** Requires a qualifying score on the Algebra 1 placement test

SCIENCE

All 9th grade students are required to take both Integrated Science 1 & 2. All 10th grade students are required to take both Biology 1 & 2. Students will have several science elective options to fulfill the 3 years of science for graduation.

Integrated Science A & B (.5 credit per semester) (Required for 9th grade)

Focus on understanding how the world and universe works. One third of the year will focus on physical science, one third will focus on earth science, and the last third will focus on the basics of chemistry. Topics include 1) earth and space science; 2) the study of matter, properties and classification of matter (structure, bonding, and families of atoms) and changes that matter undergoes; 3) motion, forces, energy, work, power, magnetism, electricity, light and sound

Biology A & B (.5 credit per semester) (Required for 10th Grade)

Biology is a year-long course that begins with an introduction to the nature of science, which will prepare students for data analysis and many problem-solving experiences. First semester topics include cells, cell processes, DNA and genetics, evolution and classification of living things. Second semester includes human body systems as well as topics related to the environment and ecology. There are several projects throughout the course that will tie different units together.

Chemistry A & B (.5 credit per semester) (Prerequisite: Gen. Sci. 2 OR Integrated Science A)

Chemistry is a study of the elements and their compounds. This study includes topics on atomic structure, chemical bonding, reactions, moles, gas laws, acids and bases, and solutions. Considerable emphasis is placed on problem solving and applications. Laboratory experiments are used to provide a hands-on approach to more thoroughly understand the concepts.

Human Anatomy & Physiology A & B (.5 credit per semester) (Prerequisites: Biology 1 & 2, Gen. Sci 2 or Integrated Science A)

The class is an advanced course in human anatomy and physiology. It is recommended for students interested in pursuing a medical, science or health related field. The course begins with an introduction to anatomical terminology and continues with sections dealing with cells, tissues, and organs. From there, the majority of the semester is spent investigating the various systems of the human body including Skeletal, Muscular, Integumentary, Histology, Cardiovascular, Nervous, and Respiratory systems. Labs and activities are an intricate part of this class. Cat dissecting and a trip to a cadaver lab are both offered during this class.

Physics A & B (.5 credit per semester) (Prerequisite: Alg.2 – Can be taken concurrently)

Physics is the science in which people seek to understand the nature of the physical world using mathematics. This course includes the study of one- and two-dimensional motion, equilibrium, unbalanced forces, impulse, momentum, work, power and energy in the first trimester. Second semester will include the study of field forces (gravitation, electric and magnetic), wave motion and thermodynamics. Class will consist of discussions, problem sets, labs, quizzes, and unit tests. A scientific calculator is required.

Forensic Science (.5 credit) (Prerequisite: Gen Science 2 or Integrated Science A, Biology 1&2)
Focuses on the collection, identification and analysis of crime scene evidence. Emphasis will be placed on the methods that link suspect, victim, and crime scene. Laboratory exercises may include fingerprinting, entomology, anthropology, blood typing, hair and fiber examination, and DNA analysis. Case studies and current events will be explored.

Comparative Biology (.5 credit) (Prerequisites: Integrated Science A & B (formally General Science 1 and 2) and Biology A & B (formally Biology 1 & 2))

Topics to be covered focus on the anatomy and physiology of a variety of different species, with an emphasis on comparing and contrasting the similarities and differences between different groups of organisms. Students will study the structures and functions of various systems, such as the respiratory, digestive, nervous, and reproductive systems. They will learn about the adaptations that different species have evolved in order to survive in different environments and carry out specific functions.

Dissection is a requirement with full participation. Examples of animals that could be dissected include, but are not limited to, clams, crayfish, fish, dogfish (shark), snake, and fetal pigs. Limit of 20 students per section.

Human Biology (.5 credit) (Prerequisites: Integrated Science A & B (formally General Science 1 and 2) and Biology A & B (formally Biology 1 & 2))

Focus is understanding how our body works and practical applications of life. Topics included, but not limited to, could be how infectious diseases spread and precautions we can take, injuries to our body (sprains, strains) and how we can help the healing process, proper nutrition and how food helps our body live and fight infections.

Cell Biology (.5 credit) (Prerequisites: Biology 1 and 2, General Science 2 or Integrated Science A)-**Formerly Advanced Biology A and Advanced Biology B**

Focus of the course will be on the cellular basis of life primarily the physiology of cellular homeostasis. Students will learn about advanced cell biology including macromolecules of life and properties; scientific studies into the origins of cellular life including the requirements for non-earth life; protein function and structure; infectious disease; and microbiology lab skills and DNA technologies including bacterial transformation and identification. Case studies and current events will be explored.

SOCIAL STUDIES

American History I (.5 credit) (Recommended for 9th Grade)

This course will cover the time period from the 1890s through the first half of the 20th century. It will look at how the United States has developed culturally, socially, economically, and technologically through this time period and how the events of this time period affect us today. Major topics and events to be covered will be the U.S. becoming a world power, immigration, certain political movements and presidents, the Spanish-American War, WWI, the Roaring Twenties, the Great Depression, WWII, the Holocaust, and Beginning of the Cold War.

American History II (.5 credit) (Recommended for 10th Grade)

This course will cover the time period from the Cold War through the present. It will look at how the United States has developed culturally, socially, economically, and technologically through this time period and how the events during this time affect us today. Major topics and events to be covered will be the Cold War, the Korean Conflict, the Civil Rights Movement, JFK Assassination, Vietnam, and Gulf War I, 9/11, and recent conflicts.

World History I (.5 credit) (Recommended for 11th Grade)

A primary goal of the World History course is to prepare students to be able to adapt to changing society. To accomplish this goal, students need knowledge of past civilizations and the ability to trace the parallels through time. Topics include Mesopotamia, Egypt, the Mediterranean world, including Greece, Macedonia, and Rome, the Middle-Ages, and the beginnings of modern history. Particular emphasis is on Ancient Greece, The Roman Empire, and the development of government, and the influences of classical civilization.

World History II (.5 credit) (Recommended for 12th Grade) (Prerequisite: World History I)

This course follows the development of Western civilization from the Enlightenment to current times. Topics include the Age of Revolutions, the development of the Holocaust, 20th century Africa, and the social, economic, and political factors of recent world history.

Economics (.5 credit) (Recommended for 11th Grade)

This course offers an understanding of basic concepts associated with economic theory and practices. The stock market is followed as well as current events related to economics on the local, state, national and international scene. The decision-making process, including budgeting, is learned and possible career choices are explored along with educational requirements for that career. Students will work with the interaction of supply and demand.

World Religions (.5 credit) (Prerequisite: World History I) (Recommended for 11th & 12th Grades)

This class will study a variety of religions both monotheistic and polytheistic. We will examine their history, their evolution, and their impact on today's society.

American Government (.5 credit) (Recommended for 12th Grade)

This course studies the basic structure and function of our three branches of government, analyzes the philosophy behind our democratic system of government, and traces some of the historical background of government in the United States. The most important American document – The Constitution – is looked at in detail. Actions and responsibilities of American citizens and American political behavior are studied. Government at the local level is viewed firsthand by students attending community meetings, helping with elections, or through other opportunities that present themselves. Students focus on a semester-long project to develop, research, and support their own personal political views.

Contemporary Issues & Geography (.5 credit) (Recommended for 10th - 12th Grades)

Students will immerse themselves in contemporary topics and their connection to the role of geography. Students will have the opportunity to examine current issues that impact local, regional, national and international communities. Evaluation of sources will be included in the course, so that students can be informed consumers of information. Participation will be a large part of the class.

Sociology (.5 credit) (Prerequisite: World History I) (Recommended for 11th & 12th Grades)

Students in this course will examine group behavior. This involves dealing with social institutions, social stratification, culture, attitudes, crime, minority groups, collective behavior, and the process of change itself. Particular concern is paid to social problems affecting society, as each student will complete an individual research paper on the “problem” of their choice. These are investigated so the student comes to a better understanding of human relationships.

Psychology (.5 credit) (Prerequisite: Biology) (Recommended for 11th & 12th Grades)

This course is designed to prepare you for the college level psychology course you will almost certainly have to take at some point. Subject areas to be studied are Perspectives and cultural influences, brain and nervous system, human development, sensation and perception, consciousness, learning and memory, emotion and motivation, personality, abnormal psychology, and mental health treatment.

Please refer to the Kirkwood Community College catalog for course descriptions for U.S. History to 1877 (HIS-151) and U.S. History since 1877 (HIS-152). These courses are dual high school and college credit courses taught at V-S HS.

PHYSICAL EDUCATION/HEALTH

One semester of physical education is required of all students each year.

*During one academic year, a student may take GPE, S&C or Personal Fitness, or a combination.
However, a student may only take 1 PE offering per semester.*

General Physical Education (.5 credit per semester, may only be taken 1 semester per year)

Physical Education is an offering in the school curriculum that provides all students the opportunity to develop movement skills in physical activities. Through these opportunities, they may acquire the physical fitness essential to their health and well-being and the knowledge of how to maintain fitness throughout life. Physical education also makes significant contributions to the mental and social development of students. Physical Education's unique contribution to the total experience at VS-HS is the immediate and future enhancement of the health and well-being of the students through physical activity and learning about lifetime activities.

Unified PE- (.5 credit per semester, may only be taken 1 semester per year)

Unified PE is a unique physical education class that provides an opportunity for students of all ability levels and backgrounds to come together through fitness, sports, and leadership activities. The same sports are played as in general physical education, but with some modifications of activities and equipment and an emphasis on peer teaching and coaching. This is a great class that combines physical activity with the lifelong skills of empathy and awareness.

PE – Strength and Conditioning (.5 credit per semester, may be taken all year)

Students will participate in areas of physical fitness intended to condition the body. Students will improve muscular strength, cardiovascular endurance, recovery time, muscular endurance, flexibility, running skills, jumping ability, agility and speed. This class contains activities that are very physically demanding and should not be confused with regular physical education class.

Early bird PE – (.5 credit per semester, may be taken all year)

This is a strength and conditioning class that is held at 6:30 AM Monday-Thursday.

PE – Personal Fitness (.5 credit per semester, may be taken all year)

This class will focus on your own personal fitness. Included in this course will be kickboxing, Pilates, aerobics, core strength, and other new and upcoming fitness trends. It will focus on cardiovascular endurance, recovery time, muscular strength, flexibility, and balance. This class will be physically demanding and should not be confused with the regular physical education class.

Health I (.5 credit) (Recommended for 10th-12th Grades) (No prerequisite)

Developing a healthy lifestyle takes more than information. This class is designed to lead students to healthy lifestyle choices through use of the decision-making process. It requires self-awareness and informed action. The areas of study include personal health; social and emotional health; human development: relationship between family and individual health; substance abuse; prevention, control, and characteristics of disease; safety and first aid; environmental health; consumer skills which affect community health; health resources, including services, products and information.

Critical-thinking skills developed in Health I provide students with the tools they need to think through issues and make choices. Critical thinking is also essential for dealing with the vast amount of health news continually bombarding the public. Without analysis, this information cannot be turned into useful guidelines for personal wellness.

Health II (.5 credit) (Recommended for 10th-12th Grades) (No prerequisite)

(A sequence of Health I preceding Health II is highly recommended when scheduling allows.) Health II presents the material high school students need in order to understand how to become and to stay healthy. This class is geared toward adolescent students who are not only reaching physical maturity but also assuming responsibility for many behavior patterns that will affect their health throughout their lives.

Health II teaches students the skills necessary to weigh options, to make responsible decisions, and to develop behaviors that promote healthy lifestyles. Students are encouraged to assess their attitudes and behavior patterns and to understand the impact their lifestyle choices have on their communities and on their own well-being. The units covered in Health II are as follows: alcohol abuse, tobacco abuse, drug abuse, sexually transmitted diseases, and HIV & AIDS.

Leadership (.5 credit)

This research-based curriculum is designed to improve character and leadership traits among high school students. This class will provide the students with the necessary skills to be successful in all facets of their lives. Topics include Attitude, Preparation, Perseverance, Respect, Honesty, Integrity, Courage, Appreciation, Composure, Empathy, Gratitude, Tolerance, Sacrifice, Loyalty, Responsibility, Compassion, Leadership, and Character. This class will only be offered every other year in the fall. (Offered next in the fall 2025).

CAREER & TECHNICAL EDUCATION

AGRICULTURE EDUCATION

Agriculture education includes more emphasis on agribusiness and science in addition to production agriculture. All areas of interest in agriculture are explored. The agriculture education program is made up of three parts: classroom instruction, supervised agricultural experience (SAE), and FFA. Classroom instruction is designed to give the student a broad, comprehensive background in all aspects of agriculture.

All Agriculture Education students are required to have a SAE program and maintain an SAE record book. The project can be in any area related to agriculture such as livestock, crops, agribusiness work, farm work experience, horticulture, conservation work, wildlife projects, small animals, or agriculture mechanics. Any difficulties with establishing an SAE should be discussed with the Ag. Ed. instructor. SAEs allow the student to apply the knowledge he/she acquires in the classroom to a realistic situation, give valuable work experience and management training, provide a potential source of income to the student, and provide a sense of pride and accomplishment for the student.

FFA is a co-curricular activity designed to give leadership and organizational experience to those participating. FFA is completely planned and organized by its members. It is an organization of, by, and for the students in Ag. Ed. In FFA, students have many opportunities to participate in leadership events, judging activities, community projects, and district/state/national conferences.

Agriculture IA & B (.5 credit per semester)

This class will introduce students to career opportunities in the science of agriculture and natural resources. Emphasis will be placed on exploring AFNR (Agriculture, Food, and Natural Resources) career pathways like animal science, plant science, and natural resources, in addition to developing skills in communication, leadership and recordkeeping.

Animal Science (.5 credit) (Prerequisite: Agriculture I or Junior Status)

The focus of this course is to develop advanced skills in animal science. The primary units of study will be: 1) Animals in our Lives; 2) Animals as Organisms; 3) Animal Nutrition and Feeding, and 4) Animal Health and 5) Animal Reproduction. Practical experiences will focus on applying basic scientific procedures and practices as well as learning through new developments in the animal industry. Students will apply knowledge and skills in real life situations with the opportunity to raise a selected species.

Advanced Animal Science (.5 credit) (Prereq: Animal Science or Junior Status)

Applying what students learned in Animal Science, this course will take a look at specific animal systems and how science is used to increase production in the dairy, beef, pork, sheep, goat, poultry, and equine industries. We will take an in-depth look into various concepts as labs are completed in the Animal Learning Lab. This course is an excellent precursor to Veterinary Medicine.

Veterinary Medicine (.5 credit) (Prerequisite: Adv. Animal Science or Junior Status)

This course is intended to prepare students for college, technical training, apprenticeships, and careers related to health and care of domesticated farm animals, companion animals, small pets, zoology and marine biology. Veterinary Terminology, Equipment, Medical Practices, and Posology will be studied in depth. Case studies will be used to help students develop problem-solving skills.

Natural Resources (.5 credit) (Prerequisite: Agriculture I or Junior Status)

This course is a broad and diverse study of the natural resources and their relationship to agriculture. Students are taught the importance of the basic natural resources including soil, air, water, forest, wildlife, etc. Emphasis is placed on developing knowledge and skills needed for the management and conservation of these resources.

Plant Science (.5 credit) (Prerequisite: Agriculture I or Junior Status)

A foundation-level course teaching students the form and function of plant systems. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students discover the value of plant production and its impact on the individual, the local, and the global economy.

Greenhouse Management (.5 credit) (Prerequisite: Agriculture I or Junior Status)

This horticulture course is designed to present knowledge and skills in the home horticulture and floriculture areas. Hands on greenhouse laboratory experiences are provided. Areas of study will include greenhouse management, plant propagation, indoor plant management, and floriculture with an emphasis on both retail and commercial applications. Students will apply knowledge and skills in real life situations through the arrangement of the annual plant sale.

Landscape Design (.5 credit) (Prerequisite: Agriculture I or Junior Status)

This horticulture course will introduce students to present knowledge and skills in the design, maintenance, and construction of home and commercial landscape applications. Areas covered will include ornamental, turf and hardscape design. Students will apply knowledge and skills in real life situations.

Agriculture Business Management (.5 credit) (Prerequisite: Agriculture I or Junior Status)

This advanced-level course is designed to emphasize agricultural business management. Students will have hands-on experience with computers and recordkeeping. They will manage simulated businesses and even plan their own entrepreneurship. Learning opportunities will include money management, marketing, planning, decision making, and analyzing agriculture markets. Students will apply knowledge and skills in real life situations through the arrangement of the annual holiday sale.

Agriculture Independent Study (.5 credits) (Seniors Only with 1.5 years of Agriculture Classes)

Students will follow along with an ICEV Self-Paced Certification Course of their choice. At the end of the semester, they would be eligible to complete the official certification exam for that course. Certifications exams include but are not limited to Food Safety, Meat Evaluation or Selection, Plant Science, Floral Design, Financial Responsibility, Conservation & Management, Small Engines, Animal Science, Veterinary Medical Application, Employment Skills,

Construction Skills, Equine Management, Livestock Selection, and Communications. Students would be placed into the study hall to complete their self-paced work.

Please refer to the Kirkwood Community College catalog for course descriptions for Principles of Agronomy (#AGA-114) and Precision Farming Systems (#AGP-333). These are dual high school and college credit courses taught at V-S HS.

BUSINESS EDUCATION

General Business (.5 credit)

This is a basic business course explaining how businesses operate. The course will look at the basic areas of business including human resources, law, marketing, finance, production, and management. Students will be actively involved in developing a business plan using those components. The course will provide a solid basis for students considering further study in business as well as offering useful and practical aspects of living to students not intending further business studies.

Accounting (.5 credit)

Automated (Computerized) Accounting will be introduced.

The accounting course offers the fundamentals and theory of elementary accounting. Students will be introduced to the accounting cycle using a service business organized as a sole proprietorship. This cycle will include analyzing and journalizing transactions, posting to a general ledger, preparing financial statements, and recording, adjusting and closing entries. An automated business simulation for a service business will be completed.

Advanced Accounting (.5 credit) *(This course is intended for those students interested in further advancement of their accounting skills and preparing to further their education in the business area.)*

The first unit will continue where accounting left off; it will explore general accounting adjustments for uncollectible accounts, plant assets, notes receivable, notes payable, prepaid and accrued expenses, and accrued revenue. The second unit will apply the first unit concepts to a departmentalized business. Students will also study departmentalized payroll accounting. The third unit will introduce corporation accounting; beginning with the formation of a corporation to acquiring capital to analyzing financial statements for a corporation. Automated accounting will be integrated throughout all units presented. At least one automated business simulation will be presented.

Business Law (.5 credit)

The study of law can benefit you on a personal and career level, dealing with our roles as citizens, workers, and consumers. Units of study will include understanding the law, enforcement of the law, business laws, juvenile laws, court proceedings, contract law, and ethics. The class will use speakers, mock trial, and case analysis to make the topics interesting and current.

Marketing (.5 credit)

The marketing course will introduce students to some of the basics of the field of marketing. Areas of study will include marketing functions, buyer behavior, product life cycle, and market planning. The four Ps of marketing will be emphasized: Product, Place, Price, and Promotion.

Personal Financial Management (.5 credit) (Required course taken in 11th or 12th Grade)

In the Money Management Unit, students will develop an understanding of gross pay, net pay, benefits, and working incentives. They will prepare budgets and learn about legal documents needed in everyday life; students will also learn about checking accounts and other banking services.

In the Credit Management Unit, students will learn what credit is, the types and sources of credit as well as what it takes to establish good credit. They will learn about credit ratings and legal protection; but most importantly, students will learn about using credit responsibly and analyzing the costs.

In the “*Saving for the Future*” Unit, students will develop savings goals, learn about savings options, features, and plans from various institutions. Students will also look at investing fundamentals and options available for investing.

Entrepreneur A & B: (.5 credit per semester) (May be taken twice during a student’s 11-12th grade years. In order to take the course, the student must have completed or be actively enrolled in other courses: Marketing, Accounting, and General Business)

The Vinton Popcorn Project is a student-run organization to revive Vinton Popcorn. Students will be working with the surrounding business community to gain real first-hand experience in the business world. Students interested in business careers will have the opportunity to put time into nearly all aspects of a start-up business without normal levels of fiscal responsibility. The students will study the fields of management, HR development, marketing, production, sales, and accounting. The courses will also cover topics such as distribution, team building, and workplace skills. Students will be simulating both an “hourly wage earner”, and the role of “middle management”. They will continue to study previous topics but will also learn to employ practical marketing skills and conclude the course by developing a business plan for the following year.

COMPUTER EDUCATION

A student may take either one of these courses to satisfy the VS Graduation requirement. If a student wants to take both courses, the second course will receive elective credit.

Computer & Workplace Skills (.5 credit)

This class will provide students with career planning and basic technology skills using various computer programs. Topics will include an introduction to Microsoft programs, Internet, computer literacy, multimedia presentations, and a create-your-own-business project. These computer topics will be integrated with career and workplace skills units that will allow students to explore occupation information, identify interests, and abilities they possess as they relate to career planning.

Computer Science Principles: (.5 credits)

Introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing, so all students understand how these concepts are transforming the world we live in.

FAMILY & CONSUMER SCIENCES

Introduction to FCS – (.5 credit) (Recommended for 9th & 10th Grades)

This course will have mini units that expose students to the major core areas of Family Consumer Science. Units will include Foods (Equipment, measuring, recipe conversion and writing, and easy food prep), sewing (Hand sewing and a project), Nutrition, Career, Housing and Human Development.

Creative Sewing – (.5 credit) (Recommended for 10th – 12th Grades)

This class involves the construction of a variety of projects based on student interest and preference. New innovative equipment and technology such as professional embroidery machines or a serger machine may be used to create projects based on student skill level and teacher approval. Units include Hand sewing, how to use a Sewing Machine and then student directed projects. Students will be able to select and create projects based on personal preferences and learning goals.

Evaluation will be done through grading rubrics and the assessment of learning accomplished and quality standards. **The student will need to provide fabric, patterns, notions, and any small equipment needed to construct projects. Funding is available for students' needing assistance.**

Creative Sewing 2 – (.5 credit) (Prerequisite: Creative Sewing 1) (Recommended for 10th – 12th Grades) **Successful completion of Creative Sewing 1 is required. The ability to be motivated and work with minimal direction is necessary.** Students will be creating advanced projects based on individual skills and preferences. One or two projects will take the entire semester.

Evaluation will be done through grading rubrics and the assessment of learning accomplished and quality standards. **The student will need to provide fabric, patterns, notions and any small equipment needed to construct projects. Funding is available for students needing assistance.**

Foods I – (.5 credit) (Successful completion of Introduction to FCS is recommended)
The goal of Foods 1 is to prepare students with the skills to be sufficient in home-made food preparation for their life after high school. Units included in Foods 1 are: Kitchen Equipment, Food Preparation Measurement, Recipe creation, writing and conversion, Bakeshop Ingredients, Quick Breads, Yeast Breads, Cakes, Cookies and Desserts and Nutrition. Other units may be added as time allows. Sanitation and Safety knowledge is interwoven throughout the course.

Evaluation includes Lab experiences, tests, and demonstration of knowledge through student created videos. Lab experiences that are graded include working as a group, finding appropriate recipes, properly ordering ingredients, food preparation, following a recipe, safety, sanitation, and lab clean up.

Foods II– (.5 credit) (Prerequisite: Foods 1) (Recommended for 10th to 12th Grades)
This class is the “next step” and continuation of learning from Foods 1 with special attention being places on whole meal preparation and presentation. Units include Nutrition, Meal Preparation, Sauces and Soups, Meat preparation, Cuisine Genres such as American, Mexican and International Foods as examples.

Evaluation includes Lab experiences, tests, and demonstration of knowledge through student created videos. Lab experiences that are graded include working as a group, finding appropriate recipes, properly ordering ingredients, food preparation, following a recipe, safety, sanitation, and lab clean up.

Housing & Interiors (.5 credit) (Recommended for 10th - 12th Grades)
Housing is meant to help the student understand how housing reflects the cultures of various civilizations, evaluate the social and physical needs of an individual as they affect housing, understand the aesthetic and practical interests in a home and to apply principles learned in this course.
Housing is a study of the home as a place of self-expression and creativity. This course includes the architecture of housing, renting versus buying, furnishing the home to reflect one’s personality, floor plans, and interior design. Evaluation and grading are based on daily assignments, tests & quizzes, and projects.

Child Development/Parenting (.5 credit) (Recommended for 10th – 12th Grades)

Child Development seeks to help the student recognize the unique developmental stages in children, become aware of the sequence of child development and understand the importance and value of good prenatal care. Child development emphasizes both prenatal and postnatal development of the child. This course also includes the relationship of this development to the parent's physical and mental health and attitudes, and other parental issues. Parenting choices and decisions are studied in-depth in this course. Evaluation of this class includes daily assignments, class participation, "Baby Think It Over" project (required for 24 hours), papers, tests & quizzes.

Interpersonal Relationships (.5 credit) (Recommended for 11th – 12th Grades)

This course is designed to look at issues teens will face during high school. Areas covered include the development of personality, dating, mate selection, marriage, sex, birth control, adjustment in marriage, adult relationships, in-laws, roles of men and women, divorce, single-parent families, aging, and death. Marriage simulation project included.

INDUSTRIAL TECHNOLOGY

Intro to Architecture, Construction and Engineering (ACE) (.5 credit)

This course is an introductory prerequisite for any other class taken in the Industrial Technology area. It will give students a basic introduction and overview to the topics available within the department. It will cover a wide range of study of the following areas: Architecture, Construction, Engineering, Graphic Communication, Manufacturing, Power and Energy, and Transportation. Most units will include safety, hands-on work, and in some areas a project. The curriculum is designed around exploration of these systems and their impacts on society. Students will also develop problem-solving skills, explore career awareness, and relate technology to math and science. Course activities include an introduction to CAD and 3D modeling, blueprint reading, CO2 dragsters, a woods project and basic woodworking skills, and aviation (gliders).

Metals/Small Gas Engines (.5 credit)

Metals will include study and product work in the areas of tools, sheet metal, arc welding, cutting metal, and foundry. Small Gas Engines include operation and construction, maintenance, repair, and overhaul.

Industrial Metalworking (.5 credit) (Recommended for 10th-12th Grades) (*Prereq: Metals/SGE*)

Metalworking will help students understand this industry as it is today. The student will work with some of the more common metals such as aluminum and low and high carbon steel. Typical units covered are sheet metal fabrication, foundry and pattern making, machining of metal, welding, and computer numerical controlled machining. This course is very helpful for students entering metal technology fields.

Auto Ownership (.5 credit) (Recommended for 10th-12th Grades)

This course will give students the knowledge and skills to purchase, lease, own, and maintain a vehicle. The course will cover topics such as automotive careers, selecting the right vehicle for you, financial responsibility of owning a car, shopping for insurance, car care, fluid checks, and component identification. Hands-on activities will include the following: automotive cleaning, fluid checks, changing oil, starting a dead battery, wiper blade replacement, tire inspection/removal, changing lights, and inspecting the brakes. A course designed for anyone who owns an automobile.

Fundamentals of AC/DC (.5 credit) (Recommended for 10th-12th Grades)

This course offers an introduction to Electricity and Electronics through hands-on lab modules. The course provides students with experiences in schematics, electrical sources, Ohm's Law, magnetism, alternating current, and electronic kit construction.

Basic Electronics (.5 credit) (Recommended for 11th-12th Grades) (*Prereq: Fundamentals of AC/DC*)

This course is designed to provide students, working in pairs, with experience in diodes, filters, power supplies, transistors, SCR's, binary numbers, digital circuits, OR gates, And gates, and encoders. This course is very helpful for students planning to major in industrial technology areas or engineering. There is also a unit on residential wiring.

Construction Material Processing (.5 credit) (Recommended for 10th-12th Grades)

(*Prerequisite: Intro to ACE or Instructor Permission*)

Students will continue developing team building skills introduced in Intro to ACE. This is the foundational course for the architecture and construction cluster. Students will learn proper construction terminology and safe instruction in power tool usage through project construction. Students will experience plan development, reading project drawings, material identification, cost estimation and production.

Construction Technology (.5 credit) (Recommended for 10th-12th Grades) (*Prerequisite: Construction Material Processing*)

This course is designed to give students an introduction to construction systems in today's society. Students will be responsible for the construction of individual and/or group project(s) built throughout the semester. The project(s) will be determined by the needs and wants of the class, community, and school district as well as the experience of the classmates involved. There will be a wide range of topics; job-site safety, concrete construction, rough framing construction, roofing construction, interior construction, electrical, fine finish carpentry, and other topics within the construction cluster. Most assessments are done in class and are based on work completed, employability skills, and other skills as determined by the instructor.

Computer Aided Drafting, Design and Modeling (.5 credit) (Recommended Grades 10-12)

(Prerequisite: Intro to ACE)

Students will develop knowledge and skills to communicate graphically with engineers, architects and mechanics. Students will have a basic understanding of how graphic communication affects our daily lives. This is a semester course designed to acquaint students with design, engineering, the design process and drafting principles. The design process is used throughout the course projects. Individual and group design projects are solved using a 3D modeling platform called Inventor. At the end of the course students will have covered the following units: sketching, 3D C.A.D. basics, multi-views, solids, dimensioning, sectionals, assemblies, auxiliary views, and 3D printing.

Architectural Drafting/Design (.5 credit) (Recommended for 10th-12th Grades) (*Prerequisite: Intro to ACE or CAD/CAM or Instructor Permission*)

In this course, students will gain knowledge in basic home design, interior design, and computer-aided design techniques in the world of architecture. Students will study architectural styles, house designs, general room planning, basic building methods, estimate the cost of materials, and the use of efficient energy designs. You will then make the following drawings using computer-aided design software called Chief Architect: floor plans, foundation and footing plans, elevations, and perspectives and renderings.

Face/Face Concurrent Enrollment Courses

CNA

Exploration/Healthcare Careers

Explores multiple aspects of healthcare and careers in the health field. Covers the past, present and future of healthcare. Introduces key career cluster terms and career pathways within each career cluster. Provides career information, including education required for each area, educational costs to attain a degree versus expected career earnings, job descriptions, case studies and skills needed for specific career areas. Results in BLS CPR certification upon successful completion.

Medical Terminology

A comprehensive study of medical terminology as the language of medicine. Analyzes words by dividing them into component parts. Relates the medical terms to the structure and functional pathology of diseases and current medical procedures. Emphasizes word usage, abbreviations, pronunciation and spelling.

Nurse Aide

Required to meet the training requirements for nurse aides in long-term care facilities. Emphasizes achievement of a basic level of knowledge and demonstration of skills to provide safe and effective resident care. The course includes 30 hours of clinical experience in a long-term care facility, supervised by an RN. Arts & Sciences Elective Code: B

Requisites: None

Professionals in Health

Presents skills and characteristics expected for professional preparation and employability. Provides an overview of the health industry as it relates to health and safety regulations.

Language Arts

Composition I (.5 credit)

Develops expository writing with emphasis on organization, supporting details, style, vocabulary and library research skills.

Composition II (.5 credit)

Teaches precise and responsible use of research tools. Requires critical analysis of reading materials, audience and self when communicating content material. Develops students' ability to use effective and ethical arguments.

Fundamentals of Oral Communication (.5 credit per)

Studies basic communication theory and practice including communication process, interpersonal relationships, small group interaction and public speaking.

Face/Face Concurrent Enrollment Courses (cont.)

Math

Applied Math (.5 credit)

Covers basic mathematical skills for students in career and technical fields. Focuses on computing with whole numbers, fractions, decimals, and signed numbers; percent; evaluating formulas; ratio and proportion as a problem-solving tool; the metric system; measurement; basic algebra; and reading tables and graphs.

Calculus (.5 credit)

Introduction to limits, differentiation, applications of the derivative, the definite and indefinite integral including The Fundamental Theorem of Calculus, and an introduction to differential equations.

Statistics (.5 credit)

Focuses on descriptive statistics (mean, median, mode, standard deviation and variance) and introduces correlation and linear regression. Emphasizes inferential statistics and probability distributions as applied to confidence intervals, hypothesis testing of means and proportions, and applications to business and other fields.

Social Studies

U.S. History to 1877 (.5 credit)

Studies the European background, the colonial experience, the revolutionary period and 19th century history to the Civil War and Reconstruction. Includes political, economic and social history of this period as well as the development of American thought.

U.S. History Since 1877 (.5 credit)

Studies the period from reconstruction to the present. Emphasis is upon industrialization and its impact; the development of a strong federal government; an aggressive foreign policy; and a growing involvement in an international economy.

Fine Arts

Music Appreciation (.5 credit)

Includes study of elements and forms of music with attention to major historical periods and composers of historical significance and survey of indigenous music.

Face/Face Concurrent Enrollment Courses (cont.)

Project Lead The Way

Please refer to the Project Lead the Way Career Academy at www.kirkwood.edu/careeracademies.

IED (.5 credit per semester)

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. This is a foundational class.

POE (.5 credit per semester)

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

CEA (.5 credit per semester)

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

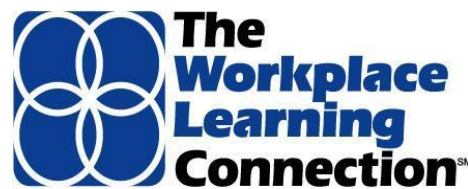
Computer Science (Listed in our class offerings as "Software" - .5 credit per semester)

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Computer Science Principles. Software helps students develop programming expertise and explore the workings of the Internet. Projects and problems include visualization of data, cybersecurity, and simulation.

Career and Work Readiness

Internship Program (Prerequisite: Computer & Workplace Skills or Computer Principles - 1 period on alternating days for 1 semester; .5 credits)

The internship program provides juniors and seniors with a planned and supervised career development experience related to their learning and career goals.



Businesses and industries partner with the school to provide this opportunity at the business/industry site. Internship job sites are available in both the Vinton and Cedar Rapids areas. Students must apply for a specific job site, go through an interview process and be accepted by the internship program supervisor and the prospective internship business/industry supervisor. Students must furnish their own transportation to and from their job site and must conform to the dress codes and employee rules for the respective site. Some required meetings MIGHT be held outside of the school calendar. The Workplace Learning Connection and the V-S HS guidance office staff coordinate this program.

Job Shadow (no credit given)

Job shadows are available to sophomore, junior, and senior high school students. Students apply for job shadows in their career field of interest. During this half or full day experience, students have the opportunity to meet one-on-one, or in small groups with business people to learn more about the real world of work and the career they are interested in. An orientation meeting facilitated by the Workplace Learning Connection staff is required before students may participate in the job shadow program. The Workplace Learning Connection and the V-S HS guidance office staff jointly coordinate this project.

Pre-Apprenticeship: (.5 credits)

This course is designed for students who plan to directly enter the workforce with no post secondary education. It is currently only offered in the area of welding with training taking place at Ideal Industries in Vinton. This course offers students the opportunity to earn high school credits and get paid by the business. Space is limited and students will be screened by both the guidance office and our MOC coordinator (Mrs. Fleming). Application for this course is no guarantee of placement.

Apprenticeship: (.5 credits per semester) (Prerequisite: Nursing - CNA certification, Welding-completion of the Advanced Manufacturing Academy thru Kirkwood)

This course is offered through the Workplace Learning Center and is designed for students who wish to continue their education after high school. Currently, apprenticeships are offered in the area of Nursing and Welding. This course offers students the opportunity to earn credit and get paid by the business. The course requires 2000 hours of contact time, and will need to be started and completed with many of the hours coming outside of school time. Upon completion of this course, students will receive a nationally recognized Certificate of Apprenticeship. Space in this program is limited and application for this course is no guarantee of acceptance.

Since these are new programs and are being currently developed, the description of these courses may change. If they do, the course book will be updated accordingly.

SPECIAL PROGRAMS

SPECIAL EDUCATION

The high school Special Education Department consists of three programs: Resource, Life Skills Class, and Behavioral Disability classrooms. Programming is determined by the student's Individual Education Plan (IEP).

EXPANDED LEARNING PROGRAM

The Expanded Learning Program offers challenging academic options. Advanced placement classes via the internet are one option. The ELP coordinator will work with interested, qualified students and their teacher to adjust their learning program to better fit the student's needs and abilities. The facilitator will help students with a four-year plan that may include college credit classes.

Via the high school daily bulletin and monthly meetings, ELP students will be informed of opportunities available to them such as competitions, college visits, and special classes.

Vinton-Shellsburg High School's Expanded Learning Program includes students who:

- Have been previously identified for gifted and talented programming.
- Are highly motivated and capable in a given learning area or field; and
- Have been recommended for participation via the ELP advocacy program.

The ELP advocacy process may place students into the program via:

- Student, teacher or parent nomination.
- Student application/resume completion.
- Recommendations from two teachers.

Students may attempt to take a class earlier than recommended after they have completed the prerequisite. For example, a freshman may apply to take a sophomore level class by working with the Expanded Learning Program facilitator. Upperclassmen will be given priority for enrollment in the class.

V-S ALTERNATIVE HIGH SCHOOL PROGRAM

Students experiencing academic difficulties may wish to explore the V-S alternative high school program. Information about this option is available through the V-S HS academic advisor.

SENIOR YEAR PLUS

Vinton-Shellsburg High School Requirements

V-S HS Administratively Approved: 1/11/10

V-S CSD Board of Education Adopted: 1/25/10

Enacted by the Iowa legislature, Senior Year Plus was created to provide increased and more equal access to college credit courses. Courses delivered through Senior Year Plus provide students the opportunity to take a rigorous college curriculum and receive, in many cases, both high school and college credit concurrently. At Vinton-Shellsburg High School joint-enrolled courses include:

- Alternative Concurrent Enrollment Courses
 - Career Academy courses
 - On-site college-level courses
 - Iowa Learning Online courses (ILO)

The ***state guidelines*** now require all** students enrolling in Senior Year Plus eligible courses (starting the fall of 2010) to be proficient in reading (*Reading Comprehension Test*), math (*Mathematics Concepts and Problem-Solving Test*), and science (*Analysis of Science Materials*) as assessed through Iowa Assessments.

STATE APPROVED CRITERIA ENSURING READING, MATH & SCIENCE PROFICIENCY AS REQUIRED BY SENIOR YEAR PLUS (SYP):

1. The student is proficient on the reading, math, **and** science portions of the Iowa Assessments. Proficiency is a National Percentile Rank of 41 or higher on each of these tests.

If a student at Vinton-Shellsburg High School is not proficient as described in #1, a Vinton-Shellsburg student may meet the requirement by fulfilling **the following two requirements**. NOTE: Students would only need to meet alternative proficiency requirements in the areas not met via the IA Assessment testing.

- A. The student is proficient on the reading, math, **and** science portions of the American College Testing test (ACT). Proficiency is a score of 18 or higher on each individual portion.
- B. The student received a B- grade or better (in both semesters of a course) in **each** related high school course (Reading: *English-Language Arts*, Math: *Algebra I*, and Science: *Biology*).

**Students with an IEP will be subject to an IEP Team Review to determine eligibility under Senior Year Plus.*