

Vinton-Shellsburg High School



2021-2022 Registration Guide

“Planning for your Future!”

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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 2021-2022 Registration Guide is current as of February 2021. 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. Student meets with 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" in the class dropped for the appropriate semester.

V-S GRADUATION REQUIREMENTS

To graduate from Vinton-Shellsburg High School a student must 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 & Workplace Skills: .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: 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

<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
Language Arts A & B	English 10 A, B, C	English 11 / Comp. 1	English Elect.
General Science 1 & 2	Biology 1 & 2	English Elect.	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		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
150 <i>Language Arts A</i>	171H <i>American Humanities B</i>	1951 Pre-Algebra A
151 <i>Language Arts B</i>	172 World History I	1961 Pre-Algebra B
	173 <i>Economics</i>	200 <i>Algebra IA / 201 Algebra IB</i>
152A English 10 A	174 World History II	202 <i>Algebra IIA / 203 Algebra IIB</i>
152B English 10 B	175 American Government	204 <i>Geometry A / 205 Geometry B</i>
152C English 10 C	176 <i>Psychology</i>	208 <i>Probability & Statistics</i>
152HA <i>American Humanities A</i>	177 <i>Sociology</i>	209 Topics
154 English 11	178G <i>Contemporary Iss. & Geog.</i>	210 <i>Adv. Math. A / 211 Adv. Math B</i>
155 <i>Generation Literature</i>	179 <i>World Religions</i>	213 Non-Proof Geometry
156 <i>Genres of Literature</i>		214 Basic Statistics
158 <i>Dramatic Literature & Stage</i>	Science	
159 <i>American Literature (Survey)</i>	180 Biology 1	
160 <i>World Literature</i>	181 Biology 2	
162 <i>Creative Writing</i>	183 <i>Advanced Biology A</i>	
164 <i>Public Speaking</i>	184 <i>Advanced Biology B</i>	
165 ,166 <i>Journalism A / B</i>	185 <i>Human Anat. & Physiology A</i>	
168 <i>Ind. Study of Literature</i>	186 <i>Human Anat. & Physiology B</i>	
	187 <i>Chemistry</i>	
	1871 <i>Adv. Chemistry</i>	Physical Education
Additional Required Courses	189 Physics A	3261,2 General Physical Education
228 Computer and Workplace Skills	190 Physics B	3261,2 Unified PE
263 Personal Financial Mgmt.	1914 General Science 1	3271,2 PE – Strength and Cond.
Social Studies	1924 General Science 2	3271,21 PE- Early Str. & Cond.
170 American History I	1934 General Science 3	3281,2 PE - Personal Fitness
171 American History II	1935 Forensic Science	3264 Leadership
Electives		
222 <i>General Business</i>	2651 <i>Intro to ACE</i>	285 <i>Intro. to Family Consumer Science</i>
223 <i>Business Law</i>	266 <i>Metals / Small Gas Engines</i>	286 <i>Creative Sewing</i>
224 <i>Marketing</i>	2671 <i>Comp. Aided Drafting</i>	288 <i>Foods I</i>
233 <i>Accounting</i>	268 <i>Architectural Drafting</i>	289 <i>Foods II</i>
235 <i>Advanced Accounting</i>	271 <i>Fundamentals of AC/DC</i>	290 <i>Health I</i>
	272 <i>Basic Electronics</i>	291 <i>Health II</i>
	2731 <i>Auto Ownership</i>	292 <i>Child Develop./Parenting</i>
241 <i>Spanish IA</i>	2741 <i>Construc. Mat. Process.</i>	293 <i>Housing & Interiors</i>
242 <i>Spanish IB</i>	2751 <i>Construction Technology</i>	2941 <i>Interpersonal Relationships</i>
243 <i>Spanish IIA</i>	276 <i>Industrial Metal Working</i>	
244 <i>Spanish IIB</i>	277 <i>Principles of Technology 1</i>	
245 <i>Spanish IIIA</i>	278 <i>Principles of Technology 2</i>	
246 <i>Spanish IIIB</i>	279 <i>Principles of Technology 3</i>	
247 <i>Spanish IVA</i>	280 <i>Principles of Technology 4</i>	
247B <i>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 Hofer – Sem. 1
310 Portfolio I	3771 Software Engineering B	032 Hofer – Sem. 2
311 Portfolio II		
3151, 3161 Instrumental Music		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	3911,2 Entrepreneur A & B	051 Zuspann – Sem. 1
340 Agriculture Education IB		052 Zuspann – Sem. 2
342 Animal Science		
3421 Adv. Animal Science		
343 Veterinary Medicine	Non Credit Courses	
344 Natural Resources	312 SH - (1 st Sem.)	
345 Landscape Design	313 SH - (2 nd Sem.)	
3451 Plant Science		
346 Aqua Science	361 Sr. Release – (1 st Sem.)	
3473 Greenhouse Management	362 Sr. Release – (2 nd Sem.)	
348 Ag. Business Management		
3481 Ag. Independ. Study	498 ACE Placeholder (1 st Sem.)	
	499 ACE 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.
212 <i>Finite Math</i>		370 Health Sci.-Dental
2152 Industrial Math 1		360 Adv. Manuf./Eng. Tech.
216 <i>Calculus</i>		328 Health Sci.-EMT B
325 <i>Composition I</i>		282 Auto. Tech.
3252 <i>Composition II</i>		
329 <i>US History to 1877</i>		
3291 <i>US History since 1877</i>		
2691 Architect. Plans and Specs		
2831 Residential Construction Lab		
2832 Commercial Construction Lab		
295 Health Sci. Academy-Patient Care		

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 2019-2020 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.

<u>V-S HS Co-Curricular Activities</u>	
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"
<u>V-S HS Extra-Curricular Activities</u>	
Student Senate	Football
National Honor Society	Volleyball
Jazz Band	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
	Baseball/Softball
	Trap Shooting
	Bowling
	Cheerleading
	Voyagers

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 participate in 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. 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. One required performance per semester is scheduled. In addition, all eligible students meeting acceptable performance standards will participate in 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 to wear assigned robes or dresses. Men need to wear a dark shirt without a collar, black trousers, black shoes and black socks. Women should wear dresses or skirts underneath their robe and need to wear black shoes, closed toed heels preferred. A robe-cleaning fee is collected at school registration each year.
- **Lessons:** Lessons are required to monitor and assess student progress. Each student is expected to attend a minimum of 7 lessons per semester. Students are scheduled in small groups during the school day on a weekly lesson rotation.

Other vocal opportunities: Students are encouraged to be involved in co-curricular activities. Honor choirs, solo opportunities, Opus and All-State auditions, treble and bass clef small ensembles, madrigal, State Solo and Ensemble Festival, and Chamber Choir participation is encouraged for students wishing additional opportunities. Students have the opportunity to letter in choir. Points accumulate as you participate in vocal music activities throughout the year and carry over from year to year.

- **Chamber Choir** - This Chamber group of 24-30 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 Friday mornings at 7:00 a.m. (after marching band season). A second rehearsal per week will be scheduled as time allows. Students must be enrolled in Vocal Music to participate.
- **Jazz Choir** - All interested choir students must audition for this ensemble. The jazz choir will study and perform standard jazz literature and jazz literature of the modern era. Students will be exposed to 'scat' singing, jazz improvisation, music theory, and jazz history. Students will perform at concerts, out-of-town Jazz festivals, and possibly community events. Students must be enrolled in Vocal Music to participate.

Please refer to the Kirkwood Community College catalog for course descriptions for Music Appreciation (MUS-100). This is a dual high school and college credit course taught at V-S HS.

ART

Basic Art (.5 credit)

This is an art studio course in which students follow a historical timeline. Each historical unit includes a multimedia approach to learning, which includes video, slides, and lecture. Along with each unit, students do art projects sampling various media such as drawing, painting, ceramics, and printmaking.

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, 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. Student investigation of a painter/drawer of the 19th or 20th century is required to increase student awareness of artistic possibilities. Additional materials such as oil painting and watercolor 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 used will range from plaster, wood, wire, clay, wax, plastics and non-traditional found objects. There will be a unit on hand-built and wheel-thrown clay work. Reports on sculptors are required to increase student knowledge of sculptural possibilities. Some additional materials may be included in 3-D Form II.

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. The traditional graphic arts include color theory, design creation techniques, and the correct usage of tools such as exacto-knives, rulers, templates, etc. This class is open to all students and teaches skills that have practical future applications. Any student considering desktop publishing, commercial art, 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) (Prerequisite for Portfolio II is Portfolio I)
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 sports. 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. It is STRONGLY recommended that students have B's or better in Language Arts courses to take Spanish I as a 9th grader.

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. The study of Hispanic people and culture focuses on Mexico, Puerto Rico, Spain and Central America. The student will read short selections related to unit themes as well as longer narrative. 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

Language Arts A & B (.5 credit per semester)

All activities involved in this course are intended to improve learning and understanding through literacy. Special provisions are made for improving listening, speaking, reading and writing skills. The course centers on literature, covering the major genres of short story, nonfiction, poetry, drama, and the novel. Emphasis in literature is placed on reading for enjoyment, comprehension and interpretation through inference. Conventions of the language are taught in a blended, meaningful context and in isolation, as this is how people learn best. Writing is stressed both in coordination with literature and

separate writing activities. Summary of narrative figures heavily into the writing. Learning and response logs are kept to extend and build strong foundations for thought.

English 10 A (.5 credit)

(Prerequisites: Language Arts A & B or A, B and C) (Prerequisite for all future literature classes)

Tenth Grade Literature introduces a concentrated study of literature. The course will concentrate on the study of American literature during the 20th century. On some level, the class will attempt to complement the 10th grade history course. Participation in critical reading strategies, discussion of pertinent topics, analysis through literary terminology, vocabulary study, author study, and formal writing about literature will lead to success in this prerequisite for all future literature offerings.

English 10A can be **replaced** by two terms of integrated **American Humanities**. Both terms of American Humanities must be successfully completed and will fulfill American History II and English 10A requirements. See Social Studies for description.

English 10 B (.5 credit) (Prerequisite for Public Speaking and Dramatic Literature)

Course content will include listening, group skills, analyzing audience and occasion, organizing material and outlining for speeches, parliamentary procedure and storytelling. Speeches will be the major emphasis of this course. The purpose of the course is to improve the student's oral communication skills as well as providing necessary skills for other courses, which the student will take in high school.

English 10 C (.5 credit)

(Prerequisites: Language Arts A & B) (Prerequisite for all future literature and writing classes)

This is a required introductory writing class that stresses a self-critical approach to essay writing. Students will be given a "tool box" of techniques to use to revise writing and then will be asked to apply the elements of the "tool box" to their own writings. Although personal experience essay writing is the focus of the class, student will have the opportunity, as they become proficient with the writing process, to rough draft other genre of writing. Vocabulary building, editing skills, essay test writing, letter writing, research skills, and published models of writing will also play a critical role in the class curriculum.

English 11 (.5 credit) (Prerequisite: English 10C) (Students who meet the qualifying score on the Accuplacer test may take dual-credit Composition 1 in place of English 11)

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. Students may meet this requirement by completing two consecutive semesters of journalism.

Generation Literature (.5 credit) (Prerequisites: English 10A & 10C, 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 10C)

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 & news-paper, 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 10B)

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 (and the Stage) (.5 credit) (Prerequisites: English 10A, 10B & 10C)

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 10A & 10C)

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 genre 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 tools authors use in their writing. "Reading along" as a strategy will help improve reading skills. Class participation and writing will be required.

(Survey of) American Literature (.5 credit)

(Prerequisite: English 10A & 10C) (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.*)

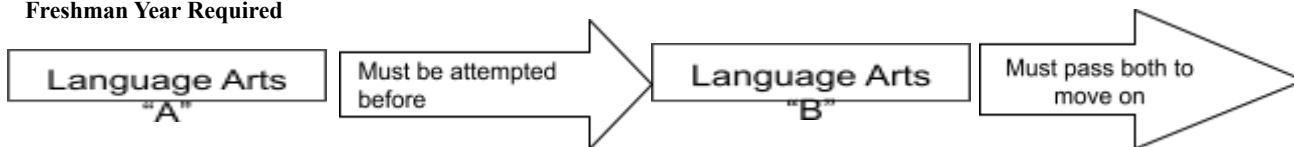
Creative Writing (.5 credit) (Prerequisite: English 10C)

This one semester elective is designed for juniors and seniors highly interested in the area of 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. Genre such as personal narrative, autobiography, biography, non-fiction, fiction, and poetry may be written.

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

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.

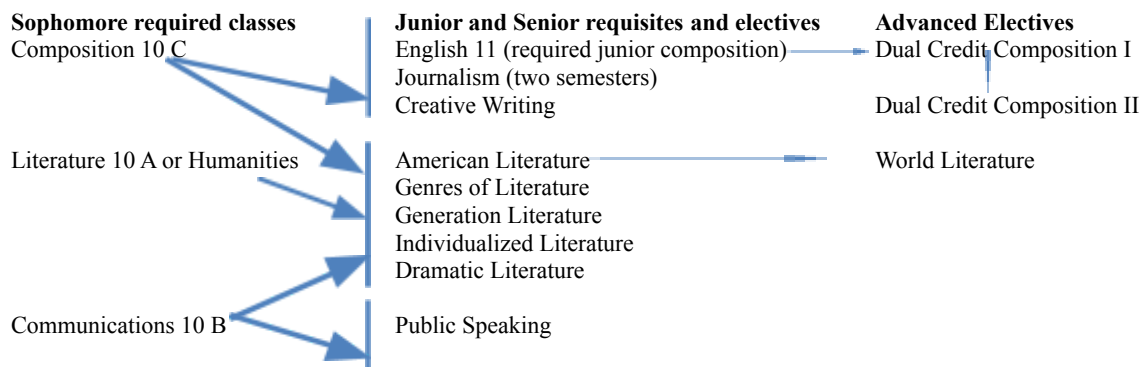
**Language Arts Flow Chart
Freshman Year Required**



Classes –

Freshman Language Arts must be completed to continue in the Language Arts Department

ARROWS INDICATE PREREQUISITES



To graduate, students must complete all required classes plus two electives. One term of Language Arts must be taken each year. One elective must be a literature class. It is highly recommended that college bound students access at least two Language Arts 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 qualifying score on the Accu-Placer test and admission to Comp. 2 requires successful completion of Comp. 1.

MATHEMATICS

Pre-Algebra A & B (.5 credit per semester)

Admission to this course requires math departmental recommendation. This course contains units involving order of operations, basic algebra, number theory, fractions, ratio and proportion, graphs, geometry and measurement, probability and statistics, and integers.

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

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

Non-Proof Geometry (.5 credit) (Prerequisite: See Flow Chart)

This course is a non-proof based geometry course. It is intended for those students who are following the general or intermediate math sequence. Topics include geometric shapes and terminology, relationships and properties of geometric shapes, measurement of 2-D and 3-D figures. This course does not meet the geometry requirements for college admission standards.

Basic Statistics (.5 credit) (Prerequisite: See Flow Chart)

This course involves data analysis, probability, simulation, and surveys. Students will collect and graph data; explore the probability of certain data occurring; simulate life occurrences utilizing coins, dice, random number tables, and calculators; and explore surveys and surveying techniques.

Topics (.5 credit) (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.

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)

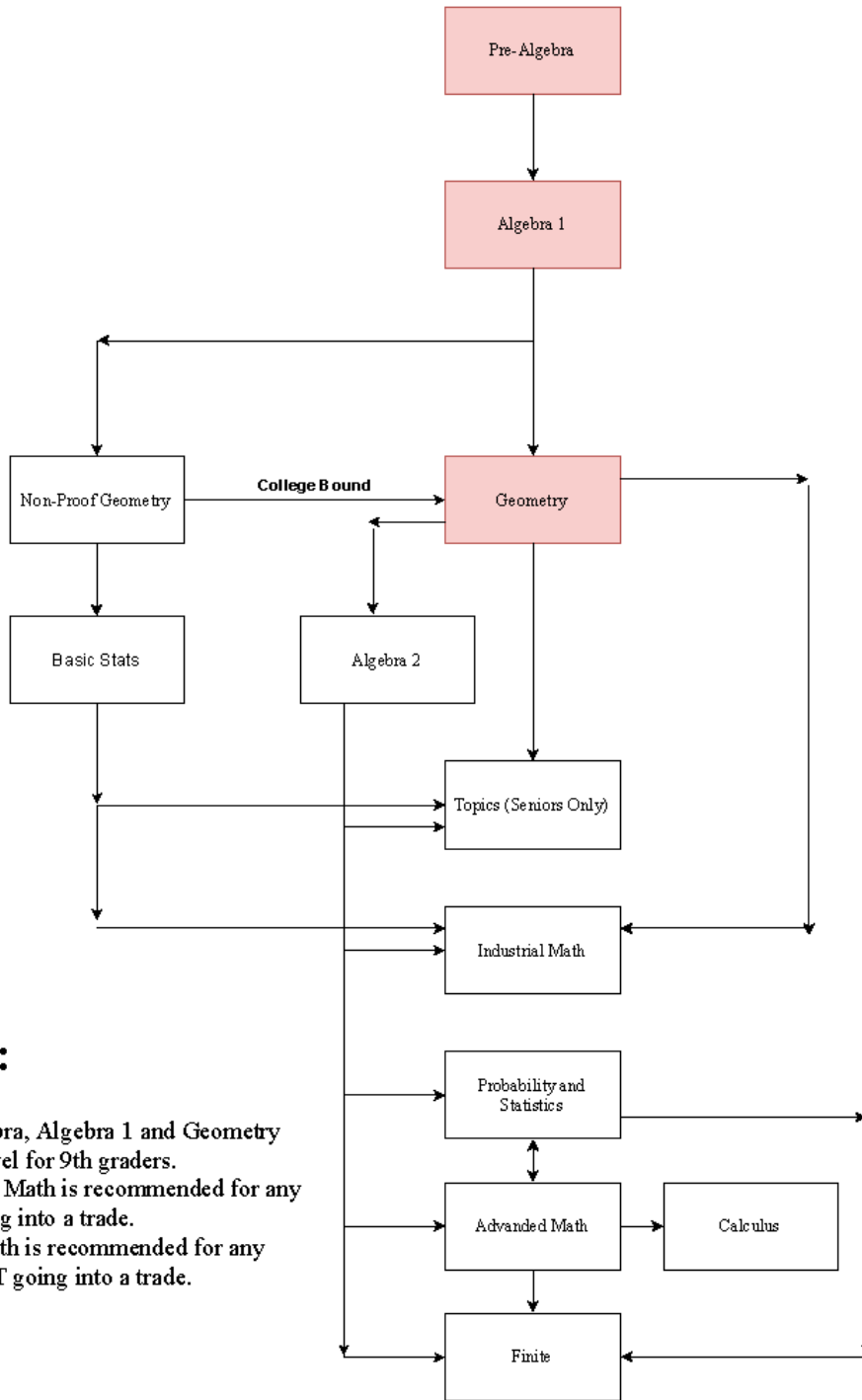
The student makes use of the methods and procedures learned in Algebra I and applies them to such topics as functions, relations, inequalities, complex numbers, logarithms, conic sections, sequences, and trigonometry.

Probability and Statistics (.5 credit) (Prerequisite: See Flow Chart)

Students will study different math topics with applications to real world situations. These could include probability, statistics, game theory, and others chosen by the instructor. This class is designed for students who want to continue in math but not with the intensity of Advanced Math.

Advanced Mathematics (College-level Algebra and Trigonometry) (.5 credit) (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. ***Please refer to the following flowchart and the Kirkwood Community College catalog for prerequisites and course descriptions for Finite Math (MAT-140), Industrial Math 1, and Calculus I (MAT-210). These courses are dual high school and college credit courses taught at V-S HS; admission to the courses requires a qualifying score on a math placement test.***



Notes:

- 1. Pre-Algebra, Algebra 1 and Geometry are entry level for 9th graders.
- 2. Industrial Math is recommended for any student going into a trade.
- 3. Finite Math is recommended for any student NOT going into a trade.

SCIENCE

All 9th grade students are required to take both General Science 1 & 2. All sophomores are required to take both Biology 1 & 2. Once a student is a Junior they may choose to either take both semesters of Physics or take General Science 3 and another science course to complete their 3 credits required for graduation.

General Science 1, 2, & 3 (.5 credit per semester) (1 & 2 required in 9th Grade)

Topics are grouped by course: 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 1 & 2 (.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 and Adv. Chemistry (2 credits; 2 periods for 2 semesters) (Prerequisite: Gen. Sci. 2 and Algebra IIB)

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)

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 trip to a cadaver lab are both offered during this class.

Advanced Biology A & B (.5 credit per semester) (Prerequisites: Biology 1 & 2, Gen. Sci. 2)

Advanced topics in Biology will take an in-depth look into areas such as genetics/ biotechnology, cell biology, microbiology, and biochemistry. Labs and other activities will be an intricate part of 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, 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 will include finger printing, entomology, anthropology, blood typing, hair and fiber examination, and DNA analysis. 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, Watergate, the Reagan years, and Desert Storm, among others.

American Humanities A&B (.5 credit per semester) (10th Grade) (Prerequisites: LA A&B and AH1)

This is a co-taught course incorporating a combined curriculum to emphasize the events of 20th and 21st century American History and their impact on the literature and culture of the period. Students completing the course will receive credit for both American History II and English 10A.

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 Revolution, the beginning of industrialism and new imperialism, 19th century, 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 first hand 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 6:30AM 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)

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 2021).**

CAREER & TECHNICAL EDUCATION

AGRICULTURE EDUCATION

Agriculture education has changed to include 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 ag. mechanics. Any difficulties with establishing an SAE should be discussed with the Ag. Ed. instructor. SAE's 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 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. Students will acquire leadership, communication and recordkeeping skills. Emphasis will be placed on animal science, plant science, natural resources, communication, leadership and recordkeeping.

Animal Science (.5 credit) (Recommended for 10th – 12th Grades) (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) Animal Reproduction; 2) Genetics; 3) Animal Systems, and 4) Feeding and Nutrition. Practical experiences will focus on applying basic scientific procedures and practices as well as learning through new developments in the animal industry.

Advanced Animal Science (.5 credit) (Recommended for 10th & 11th Grades) (Prereq: Animal Science)

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 and equine industries. We will take a look at in-depth study on ruminant vs. non-ruminant needs and requirements in the production world as labs are completed in the Animal Learning Lab. This course is an excellent precursor to Veterinary Medicine.

Veterinary Medicine (.5 credit) (Recommended for 11th & 12th Grades) (Prerequisite: Adv. Animal Science)

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, and small pets. Students interested in zoology and marine biology may also want to take this course. Cell biology and animal anatomy and physiology concepts/topics will be studied in depth. Common ailments and ideas will also be investigated. Case studies will be used to help students develop problem-solving skills.

Natural Resources (.5 credit) (Recommended for 10th - 12th Grades)

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.

Greenhouse Management (.5 credit) (Recommended for 10th- 12th grades) (Prerequisite: Agriculture I)

This beginning-level 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.

Landscape Design (.5 credit) (Recommended for 10th - 12th Grades) (Prerequisite: Ag. 1)

This horticulture course will introduce students to present knowledge and skills in the design and maintenance of home and commercial landscape applications. Areas covered will include ornamental, turf and landscape design, as well as units in fruit and vegetable production. Students will learn to draft landscape designs and will apply knowledge and skills in real life situations.

Plant Science (.5 credit) (Prerequisite: Ag 1) 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. Could be a prerequisite to Greenhouse Management and/or Landscaping.

Aqua Sciences and Technology (.5 credit) (Recommended for 10th - 12th Grades)

In this class students will identify opportunities in the aquaculture industry; identify aquaculture species and their anatomy; examine principles of production and management; operate a fish hatchery and re-circulating production systems – aquaponics. Skills developed will be controlling environments, controlling nutrition in aquatic plants and animals, evaluate and maintain water quality, and process and market fish and plants.

Agriculture Business Management (.5 credit) (Recommended for 11th & 12th Grades)

(Prerequisite: Agriculture I)

This advanced-level course is designed to emphasize agricultural business management. Students will have hands-on experience with computers and other data serving networks. They will manage simulated businesses and even plan their own entrepreneurships. Learning opportunities will include credit and money management, marketing, planning and decision making. Management principles of recordkeeping and occupational/career planning will be stressed.

Agriculture Independent Study (.5 credits) (Seniors only)

Course Description: Students will follow along with a 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 are available in 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. The initial license to access course content would be paid for by the school, but the ending exam fee will not be.

Prerequisites: Students must be in “Senior Standing” and “Concentrators” (1.5 years) of the Agriculture program PLUS 2 additional agriculture courses in the student’s area of interest to enroll.

The teacher will create a timeline for students to work through the coursework independently. Monthly progress checks with the student and teacher will take place.

Students would be placed into the study hall to complete their self-paced work. Questions related to coursework can be asked via email or before/after school in person, they should not interrupt the class being taught that hour. The exception would be if the student has hands-on activities to complete in which they can use the available facilities.

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 P's 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, student 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 important, students will learn about using credit responsibly and analyzing the costs of using credit.

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 every year 10th-12th Grades)

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

Computer & Workplace Skills (.5 credit) (9th Grade Requirement)

This class will provide students with career planning and basic technology skills using various computer programs. Topics will include an introduction to Microsoft Office 2016 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.

FAMILY & CONSUMER SCIENCES

Introduction to Family Consumer Science (.5 credit) (Recommended for 9th & 10th Grades)

This course will have mini-units in the FCS area to expose students to: 1) Food Prep, 2) Fashion/Sewing, 3) Relationships, Self-Esteem, Self-Confidence, and Character, 4) Careers, and 5) Child Development.

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

This class involves construction of a variety of projects and new innovative technology (a professional embroidery machine). Students will be able to use many designs and techniques on their projects with this new technology.

Evaluation and grading in this course are based on class projects, choice projects, participation, and efficiency and quizzes. The student and teacher will evaluate projects sewn. The student will need to provide fabric, patterns, notions, and any small equipment needed to construct projects.

Foods I (.5 credit) (*Successful completion of Introduction to FCS is recommended*)

The goal of Foods I is to prepare students with the skills to be sufficient in home-made food preparation for their life after high school. Foods I is a course designed to help a student know the nutritional needs of teenagers. Students will be able to plan balanced menus, follow a recipe, employ basic skills in food preparation, and identify equipment used in food preparation from all food groups.

Foods I class will include the basics of kitchen procedures. Evaluation and grading in this class are based on several factors. Students are graded on class participation and daily work, lab experiences, and tests & quizzes. Both the student and teacher will evaluate the performance. Units include: 1) Kitchen Basics, 2) Microwave, 3) Vegetables, 4) Eggs, 5) Milk, 6) Cheese, 7) Fruit, 8) Grains, 9) Meats, 10) Spices & Herbs.

Foods II (.5 credit) (Prerequisite: Foods I) (Recommended for 10th-12th Grades)

This class builds on the food preparation and information learned in Foods I with special attention given to presentation. Foods II units include 1) Quick Breads, 2) Cookies, 3) Yeast Bread, 4) Soups, 5) Salads, 6) Pastries, 7) Cakes and Cake Decorating, 8) International Foods.

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, renting vs. buying, and interior design. Evaluation and grading is 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 post-natal 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 directly after 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, earthquake towers, 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 includes 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 10th-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)

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.

***Architectural Plans and Specs** (.5 credit) (Recommended for 11th-12th Grades)

(Prerequisite: Architectural Drafting /Design and Instructor Permission)

This course will introduce the skills and methods for understanding and interpreting construction drawings and technical specifications for residential and commercial buildings. Students will use construction blueprints, both in-hand and online, to display a working knowledge of this form of graphic communication.

***Residential Construction Lab** (.5 credit) (Recommended for 11th-12th Grades)

(Prerequisite: Construction Technology, Architectural Plans & Specs., and Instructor Permission)

Students will apply prior knowledge of residential construction practices to hands-on modules and real-world projects. Projects will allow students to display skills that can be used for post-secondary employment or further education opportunities. Students will be expected to provide basic tools and safety glasses.

***Commercial Construction Lab** (.5 credit) (Recommended for 11th-12th Grades)

(Prerequisite: Construction Technology and Architectural Plans & Specs/Instructor Permission)

Students will apply prior knowledge of commercial construction practices to hands-on modules and real-world projects. Projects will allow students to display skills that can be used for post-secondary employment or further education opportunities.

Principles of Technology I – IV (.5 credit per course)

Instructional materials are organized into fourteen modules. The course uses video presentations and hands-on laboratory exercises to make learning effective and appealing for the student. In a concrete and practical manner it shows how technical concepts and principles apply to the mechanical, thermal (heat), electrical, and fluidal (hydraulic and pneumatic) systems that are the foundation of high technology. Sixty (60) percent of the time is devoted to laboratory activities. Science students, especially those interested in engineering, and industrial technology students interested in technical related fields should explore the possibility of taking this. Students should have taken or be taking a year of Algebra.

Project Lead the Way (.5 credit per semester; courses are yearlong) (Recommended to have completed or be enrolled in Algebra I)

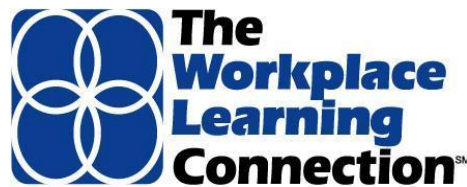
Please refer to the Engineering: Project Lead the Way Career Academy at www.kirkwood.edu/careeracademies for the course description relating to Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture, and Computer Science and Software Engineering.

****Please refer to the Kirkwood Community College catalog for course descriptions for Architectural Plans & Specs (CON-116), Residential Construction Lab (CON-190) and Commercial Construction Lab (CON-272). These courses are dual high school and college credit courses taught at V-S HS.***

Career and Work Readiness

Internship Program (Prerequisite: Computer & Workplace Skills) (1period 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.



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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 program.

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).

V-S ALTERNATIVE HIGH SCHOOL PROGRAM

Students experiencing significant 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.

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.

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.