

Index for Registration Guide

Contents	
Advanced Programs of Study	5-6
Class Rank	5
Drop/Add Guidelines	2
Dual Enrollment Application Procedures	46
Dual Enrollment at SHS & VWCC	6
Electives Offered	42
Fine or Practical Art Graduation Requirement	5
Governor's School for Science & Technology	6
Grading Scale, GPA, and Distinguished Scholars	5
Graduation Credits	3
Graduation Requirements	3-4
Guidance	7, 37
Instructions for Registration	2
International Baccalaureate	6, 36, 45
NCAA Eligibility Requirements	43-44
Parent Portal, Grade Posting Practice, and PowerSchool	37
Pathways	48-52
Planning Guide	39
Pyramid of Success	38
Registration Form - Working Copy	33
Requirements for Advanced Studies Diploma	4
Requirements for Standard Diploma	3-4
SAT/ACT Dates	<i>Inside Back Cover</i>
Senior Checklist	47
Senior Pathway Projects	34
SHS Online Academy	8-9
Student Promotion	3
Suggested Course Sequence	40-41
VWCC Career & Technical Academy	35
Course Descriptions	
Art	10-11
Business	11-12
Computer Science	12-13
English	13-16
Family and Consumer Sciences	16-17
Health and Physical Education (and Driver's Ed)	17-18
History and Social Science	19-20
Marketing Education	20-21
Mathematics	21-22
Performing Arts	23-24
Science	24-26
Special Education	26-27
Technology Education	27
Trades and Industrial Education	27-30
World Languages	30-32

Introduction

This guide is designed to enable students and parents to make informed decisions regarding a program of study and to prepare for the lifelong career decision-making process.

The registration process is an important matter. For students, course selections formulate a student's program of study for the next school year. This program must consider current academic progress and future goals for the student. For schools, registration guides staffing and budgetary decisions. Therefore, a student's requests cannot be made in a rushed or whimsical manner. Course requests represent a commitment to meet the prerequisites by finishing the current school year with the best possible grades and to follow the program of study agreed upon during spring registration with equal academic effort.

Inevitably, some changes are required when a prerequisite is not met or when an elective choice made by a student is not available. Changes in a student's schedule will not be made prior to the opening of school simply to accommodate a change of mind. Doing so runs the risk of overloading classes for the vast majority of students that seek to fulfill their registration commitment. Parents and students are encouraged to take their time, consult with teachers and counselors, and make sound decisions. If you have questions regarding the process, please contact your student's counselor.

General Registration Instructions

1. Students select courses they wish to take, making sure they meet all prerequisites, and register with their counselor.
2. Students should review course selections with parents and counselors to determine consistency with educational and career plans.
3. Parents sign registration form noting approval of course selections.
4. Students who fail to register will have courses selected by school counselors.
5. Students and parents should remember during the registration process that students will not be allowed to drop a dual-enrolled/IB/pre-IB/ AP course during the first four weeks of the school year.

Students who do not meet prerequisites at the end of the school year and who do not attend summer school will have their schedules adjusted by the school counseling department.

Note: Course offerings, including dual enrollment options, are contingent upon sufficient enrollment and staffing.

Drop/Add Guidelines

Adding a Course

Students may not add courses after the first seven days of a semester.

Dropping a Course (Withdrawal Policy)

A student interested in dropping a course should request a Drop Request Form from the counseling office. The parent/guardian, the teacher of the class, and the student must sign the form. The student is responsible for returning the signed form to his or her school counselor, who will make a recommendation to the administration.

PLEASE NOTE: NOT ALL DROP REQUESTS WILL BE APPROVED.

The following restrictions apply:

During the 1st 4 weeks:

- A course dropped during or at the end of the 1st 4 weeks of the course will not appear on the transcript or be calculated in the GPA.

When the student is *passing* the course:

- A course dropped when passing after the 1st 4 weeks of the course appears as "WP" (withdrew passing) on the transcript and will not be calculated in the GPA.

When the student is *failing* the course:

- A course dropped by a student who is failing after the 1st 4 weeks of the course will appear as a "WF" (withdrew failing) on the transcript and will be calculated in the GPA as a credit attempted (1.0) with a grade of "F".

Students are not permitted to drop a course during the last six weeks of the course.

Withdrawal from pre-IB, IB, AP, or Dual Enrolled Courses

Students registering for these courses are required to stay in the course for at least 4 weeks. If a student decides to drop such a course after 4 weeks, there is no guarantee the student will be able to transfer to a new course. Study hall might be the only option. Keep this in mind when registering.

By registering for an advanced course, the student and parent/guardian agree to abide by the Commitment to Advanced Programs of Study (page 5).

Attention Athletes - Take 5 Pass 5

Student athletes are eligible for sports only if they passed 5 courses during the previous semester and are currently enrolled in 5 new courses. Repeat classes do **not** count in this total. If a student drops a class during a semester leaving fewer than 5 courses in his or her schedule, the athlete is immediately ineligible to participate in sports that semester and the following semester. First-time freshmen are eligible fall semester regardless of grades the previous semester.

Graduation Credits

Denial of Credit

Students with excessive absences could be denied credit. Standards of student attendance and consequences for unsatisfactory attendance are a part of the Salem City School Board Attendance Policy.

Standard Unit of Credit

A Standard Unit of Credit in a course that does not have an end-of-course SOL test is earned by a student who successfully completes a course with a grade of "D" or better and maintains good attendance. **In courses having a required end-of-course SOL test, a student must also pass the SOL test or successfully complete an approved remediation program in order to receive a Standard Unit of Credit.**

Verified Unit of Credit

Verified Unit of Credits are earned by completing a course that has a required end-of-course SOL test with a grade of "D" or better, passing the end-of-course SOL test, and maintaining good attendance. Failure to pass an end-of-course SOL test required for graduation will result in a grade of incomplete ("I") for the course. To convert the "I" to a course grade, a student must successfully complete a remediation program. The course will not count toward graduation until the "I" is resolved.

Graduation Credits in Middle School

High school courses taught at the middle school are the same as courses taught at the high school and carry the appropriate high school credit and SOL requirements.

Grades Dropped at the Middle School

A course having the grade dropped at the middle school may not be used as a prerequisite for a course at the high school. Example: If parents elect to have a French 1 grade dropped from the middle school transcript before entering high school, French 2 could not be taken until French 1 had been repeated.

Student Promotion

A. Promotion for grade classification purposes is based upon the total number of credits accumulated as follows:

Sophomore.....5 credits

Junior 11 credits

Senior..... 17 credits

B. Transfer students from other schools will be evaluated on an individual basis. Transfer students who take courses from VWCC will have those credits accepted at SHS only if the course has been pre-approved, qualifies as a 100 or 200 level course, and if VWCC awarded credit. For example, Algebra 2 at VWCC is remedial and credit is not awarded at VWCC or at SHS. This policy does not apply to dual-enrollment courses at SHS. Credit earned from online academic programs must have prior approval from the principal.

Graduation Requirements

Requirements for Graduation

The requirements for a student to earn a diploma from a Virginia high school shall be those in effect when that student enters the ninth grade for the first time.

Standard Diploma Requirements

1. Must earn the units of credit described in Table 1
2. Students may submit an appeal to receive locally awarded verified credit (LVC) for the Standard Diploma in science and/or history and social science if they meet all four of the following criteria:
 - a) The student passed the course.
 - b) The student has taken the required end-of-course SOL test at least two times.
 - c) The student achieved a minimum score of 375 on at least one of the attempts.

Note: Starting with 2018-19 freshmen: LVCs may be used for the Advanced Studies Diploma or the Standard Diploma. Students can only have 1 LVC (unless specified in a student's IEP/504 Plan).
3. Starting with 2018-19 freshman: Students must **EITHER** earn a career and technical education certification credential **OR** take an AP/IB/Honors class before graduation.

Students who complete the requirements for a Standard Diploma with an average grade of "A" (3.5 gpa or higher) will receive a Board of Education Seal on the diploma.

Table 1: Credits Required for Graduation: Standard Diploma

Discipline Area	Standard Units Required	Verified Credits Required
English	4	2
Mathematics ¹	3	1
Laboratory Science ²	3	1
History and Soc. Sciences ³	3	1
Health and Phys. Ed.	2	
W. Lang, Fine Arts or CTE	2	
Electives ⁴	4	
Econ and Personal Finance	1	
Total	22	5

¹Mathematics:

Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra 1, Geometry, Algebra 2, or other mathematics courses above the level of algebra and geometry. The Board may approve additional courses to satisfy this requirement. (Computer Math has been approved for meeting the Standard Diploma for students who are a CTE completer.)

²Science:

Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth science, biology, chemistry, or physics. The Board may approve additional courses to satisfy this requirement.

³History & Social Science

Courses completed to satisfy this requirement shall include U.S. & Virginia History, U.S. & Virginia Government, and one world history/geography course. Courses which satisfy the world history/geography requirement are: (i) World Geography, (ii) Modern World History or (iii) Ancient World History. The Board may approve additional courses to satisfy this requirement.

⁴Electives:

Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. Sequential electives are a series of two related, one-credit courses or a combination of 0.5 credit courses in a related content area.

Advanced Diploma Requirements

Must earn the units of credit described in Table 2

Students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better, and successfully complete at least one International Baccalaureate (IB), AP or one college-level course for credit will receive the Governor's Seal on the diploma.

Table 2: Credits Required for Graduation: Advanced Studies Diploma

Discipline Area	Standard Units Required	Verified Credits Required
English	4	2
Mathematics ¹	4	1
Laboratory Science ²	4	1
History and Soc. Sciences ³	4	1
World Language ⁴	3	
Health and Phys. Ed.	2	
Fine/ Performing Arts or CTE	1	
Econ & Personal Finance	1	
Electives	3	
Total	26	5

¹Mathematics:

Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least three different course selections from among: Algebra 1, Geometry, Algebra 2, or other mathematics courses above the level of Algebra 2. The Board may approve additional courses to satisfy this requirement. (Computer Math does not meet the requirements for an Advanced Studies Diploma.)

²Science:

Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, life sciences, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma. The Board may approve additional courses to satisfy this requirement.

³History & Social Science

Courses completed to satisfy this requirement shall include U.S. & Virginia History and U.S. & Virginia Government. Other requirements include two courses from: (i) World Geography; (ii) Modern World History; or (iii) Ancient World History. The Board may approve additional courses to satisfy this requirement.

⁴World Language:

Three years of one language or two years each of two languages.

Fine/Practical Art Requirement

These courses meet the Fine/Practical Art Requirement for graduation. Students may complete two semester classes or one full-year course.

Semester Courses

Art Foundations
Advanced Drawing
Ceramics
Intro to Arch.
Intro to Engineering
Foundations Cybersecurity
Digital Applications
Beg. or Adv. Painting
Mobile Apps
Intro to Collision Repair
IB Theory of Knowledge
Adobe Photoshop
Adobe Illustrator
Digital Photography
Exploring Foods
Intro to ECE
Computer Programming
Business Law
IB Music
Computer Applications
Intro to Collision Repair
Desktop Publishing
Multimedia Presentations
Marching Band
Welding Exploratory
Intro to Auto Service
Intro to Marketing

Full-year Courses

IB Art
Accounting
Computer Information Systems
Early Childhood Education
Concert Choir
Photojournalism
Drama
IB Theater
Welding
Marketing
Robotics
Mechatronics
Culinary Arts
Chorale
Band
Co-op Courses
Salem Singers
Vocal Ensemble
IB Business & Management
AP Computer Science
Education for Work
Technical Drawing
Engineering Drawing
Architectural Drawing
Auto Service Technology
Advanced Graphic Arts

Grade Point Average

The number of graduation credits carried by a course is multiplied by a numerical grade equivalent. That product is added together with the product of every other course taken by the student. The result is divided by the total number of credits attempted by the student. The resulting number is the student's GPA. All credit courses at SHS are included in the calculation. Generally, numerical equivalents are assigned on the four-point scale listed here

A = 4; B = 3; C = 2; D = 1; F = 0

International Baccalaureate, AP and pre-IB courses use the following higher numerical equivalent to reflect their substantially greater difficulty:

IB/ AP Courses

A = 5
B = 4
C = 3
D = 1
F = 0

SHS Pre-IB Courses

A = 4.5
B = 3.5
C = 2.5
D = 1
F = 0

A student's official GPA is computed using end-of-year grades.

However, the GPA at the end of the first semester of the senior year is used to determine which seniors will be named as Distinguished Scholars for the graduation ceremony. Students earning Distinguished Scholar status at the end of the senior year will receive the token awarded to all such scholars but will not be recognized during the graduation ceremony.

Class Rank

Salem City Schools do not rank students within their class. For the purposes of facilitating college applications, the average GPA of a class will be listed on transcripts issued to colleges.

SHS Grading Scale

If a teacher chooses to use a numerical system to assign final letter grades, the following scale will apply:

A 94-100
B 87-93
C 79-86
D 70-78
F 69 and below

Advanced Programs of Study

SHS offers a number of courses which provide more depth and cover more material than their grade level counterparts. A significant amount of work outside class is to be expected. Students may be required to apply for specific courses.

Commitment to Advanced Programs of Study (IB, AP, SHS pre-IB, Dual Enrolled)

By registering for advanced courses, students and parents/guardians understand and agree to the following:

1. Complete summer reading/requirements.
2. Student will not attempt to drop the class prior to the opening of the fall term due to not completing summer requirements.
3. Student remains in class a minimum of 4 weeks.
4. If an advanced class is dropped after 4 weeks, there is no guarantee a replacement class will be available. Other classes will not be overloaded to accommodate the drop.

International Baccalaureate

The International Baccalaureate (IB) is recognized around the world as a symbol of academic integrity and intellectual promise. The two-year course of study offers motivated and academically talented students a comprehensive liberal arts education that goes beyond the regular high school curriculum to challenge their intellectual, social and critical perspectives of the world. Students learn to do research, to analyze, and to demonstrate tolerance for and a willingness to communicate with others.

More than 1600 schools in 120 countries offer the IB Program, and SHS has been a member since 1990.

Students may elect to earn certificates in specific subject areas or pursue the IB Diploma, which requires completion of six subjects, with three or four at the higher level and others at the standard level. All diploma candidates also submit an extended essay in one of their subject areas and complete a course in the theory of knowledge. External examinations occur in May of each year. Colleges may use examination scores to determine placement or credit.

IB credits are recognized and accepted for college credit or placement at hundreds of universities including UVA, Virginia Tech, JMU, William and Mary and many others. Acceptance policies from colleges are on the IB website, www.ibo.org.

Students who register for IB and SHS pre-IB courses are expected to make the necessary commitment to be successful in a rigorous program of study.

The Governor's School

The Governor's School is a regional center for the study of advanced courses in science, mathematics, computer applications, and technology. Students must apply for admission. Only rising 10-12 graders are eligible. Students should be academically prepared and motivated to want to learn advanced science and math. Students must have completed Algebra1 and Geometry prior to enrollment.

The application period is January through mid-February. Parents, accompanied by the student, may receive an application at any of the scheduled valley-wide informational meetings. Transportation is provided to the Governor's School. Nonresident students should apply through the school in their attendance area. Students who elect to complete course work at the Governor's School may have to make alternate course selections at their home school due to schedule constraints and may lose a class period that could include an elective due to the time spent traveling to/from the Governor's School.

Dual Enrollment at SHS & VWCC

SHS has a rigorous course of study which includes several college-level courses. In recognition of this, VWCC has agreed to give college credit for a number of courses being taught at SHS.

In most dual enrolled classes, students receive three or four college credits per dual enrolled semester. Courses are taught at SHS by college-accredited high school staff. Books for the courses are provided at no charge to the student. Students who drop a dual enrolled course at SHS must also do so through the Advanced Studies Office.

Dual Enrollment is optional. Students who desire to receive college credit must register and pay tuition as determined by VWCC. Registration occurs in August for the fall semester and January for the spring semester. Students register and pay for classes at SHS through the Advanced Studies Office.

VWCC tuition is determined by the number of credit-hours a student elects to dual enroll and is subject to change. Scholarships are available.

VWCC credits can be transferred to many colleges and universities, dependent upon admission practices. Students and parents are encouraged to contact the admissions office at universities of interest to the student and inquire about credit transfer policies.

****All Dual Enrollment courses and offerings are subject to change based on staffing and availability.***

Career & Technical Preparation

Career and Technical Education provides a sequence of study beginning in high school and continuing through at least two years of post-secondary education.

CTE programs prepare students for direct entry into the workplace after high school and for advanced study leading to a college degree. They include a combination of academic and technical courses providing knowledge and skills needed for success in modern business and industry.

Areas of Career & Technical Focus

<i>Auto Body Repair</i>	<i>Heavy Equip Operation</i>
<i>Auto Service Tech</i>	<i>Marketing</i>
<i>Business/Office Admin</i>	<i>Pharmacy Tech</i>
<i>Computer-Aided Drafting</i>	<i>Precision Machining</i>
<i>Cosmetology</i>	<i>Robotics & Mechatronics</i>
<i>Culinary Arts</i>	<i>Welding</i>
<i>Early Childhood Ed</i>	

The Virginia Department of Education and the City of Salem School Division define a CTE program completer as a student who successfully fulfills all minimum requirements of an approved career and technical education program. An approved career and technical education program consists of a sequence of courses or learning experiences designed to develop competencies required for specific career fields or continuing education.

Student Fees

Some elective courses may charge a fee for materials that are consumed or retained by the students, or for specific supplies in excess of what is required for students to complete class assignments. However, fees should never prevent or discourage students from registering for a course. Financial assistance is available for students who qualify. For additional information regarding financial assistance please see the Principal.

SHS Counseling Department

During school hours call: 387-2437

Students Last Names (A—E):

Drew Barrett—email: dbarrett@salem.k12.va.us
24 hr. confidential voice mail: (540) 444-0914

Students Last Names (F-J):

Kristi Snow—email: ksnow@salem.k12.va.us
24 hr. confidential voice mail: (540) 444-0912

Students Last Names (K-Q):

Michele Arbogast—email: marbogast@salem.k12.va.us
24 hr. confidential voice mail: (540) 444-0911

Students Last Names (R-Z):

Jenny Parrish—email: jparrish@salem.k12.va.us
24 hr. confidential voice mail: (540) 444-0913

School Counseling Department Secretary

Tammy Chitwood—email: tchitwood@salem.k12.va.us
24 hr. confidential voice mail: (540) 444-0910

NEW OPPORTUNITY: SHS ONLINE ACADEMY

School years 19-20 and 20-21 forced us to increase online course offerings. Many students longed for a traditional academic setting, but others thrived online. To provide a more personalized and flexible approach to learning for those who prefer an online environment, Spartan students now have the option to submit an application to continue taking advantage of online course offerings.

Courses SHS hopes to offer online are listed on the next page of this Registration Guide. Most courses not offered online are those where meeting in person is essential to completing the course. Students who choose to take online courses can also register for courses not offered online. Students who take a combination of online and in-person courses will receive a hybrid schedule and will attend in-person classes as scheduled. The hybrid model may result in students arriving late, leaving early, or both depending on the nature of their schedule. For any "open" periods during the day, students will be assigned to a location in the school to work independently.

The manner in which courses will be offered, either by SHS teachers or via a third party provider, will be determined based on student requests and staff availability. Many online courses will be taught by Salem High faculty; however, at times SHS will utilize third party providers such as Virtual Virginia. Students who elect to take classes online must take them in the manner determined by SHS. The delivery model will be communicated prior to the add/drop date to allow students the opportunity to add or drop an online course once the delivery method has been determined.

Online classes will be offered asynchronously, meaning students will be able to access content and complete assignments at their own pace. However, there will be synchronous requirements. Students will be expected to connect with teachers on a regular basis, and there could be a limited number of times throughout the year when students will be required to come to school to complete a task in person with a teacher.

This instructional mode does not work well for all students. Therefore, interested students must apply to be considered for this opportunity. Students receive applications from their school counselor. On the application students will be asked to compose a short response explaining why they desire to participate in online courses.

Other criteria considered include: Parent/Guardian permission, academic history, GPA, courses completed, prior success with online courses, grades, academic independence, ability to meet deadlines, and grade level.

In general, 9th graders will not participate in the online academy. Exceptions might be made for incoming freshmen in 2021 based on their level of success with online coursework during the 20-21 school year.

After counselors receive completed applications and decisions are made regarding acceptance, counselors will schedule personalized registration meetings to help online students and families make appropriate decisions and to answer questions about what and how courses are offered.

Similar to our existing procedures regarding changing course requests, students will have until the last Friday in June to choose online or in-person classes. After that date, students will not be allowed to change. This includes students who originally chose to take online courses and then decide they prefer to attend traditional classes. If students begin taking a class online and then desire to switch to the traditional in-person model, SHS will make every effort to allow that to happen. However, the ability to move to in-person classes will depend upon space available; therefore, students should only choose the online option if they are confident they will work well in that setting.

This is an exciting endeavor for our school, but it's also new. With anything new there are bound to be many questions. Please ask your counselor for additional information.

Anticipated SHS Online Academy Classes

Art Foundations	Modern World History	IB Math SL 1: Precalculus
IB Art 1,2	Ancient World History	IB Math SL 2: Analysis & Approaches
Personal Finance and Econ	US/VA History	IB Math Applications
Accounting	US/VA Government	Earth Science
Business Law	AP US/VA Government	Biology
IB Business and Management	AP US/VA History	Chemistry
Computer Science Foundations	African American History	Chemistry: SHS pre-IB
AP Computer Science	Sociology	Anatomy and Physiology
AP Computer Science Principles	Psychology	Physics: SHS pre-IB
Intro to Game Design	IB History 1,2	Physical Science 2
Foundations of Cybersecurity	IB Theory of Knowledge 1,2	Environmental Science
Mobile Apps	IB Extended Essay 1,2	AP Environmental Science
English 9	Intro to Marketing	IB Biology 1,2
English 9 SHS pre-IB	Marketing	IB Chemistry
English 10	Advanced Marketing	IB Physics SL
English 10 SHS pre-IB	Geometry	French 1,2,3
AP Language and Composition	AFDA	Spanish 1,2,3
English 11	Algebra 2	German 1,2,3
English 11: College Prep	Algebra 2: SHS pre-IB	Chinese 1,2,3
English 12	Trig: SHS pre-IB	IB French 1,2
English 12: College Prep	AP Calculus BC	IB Spanish 1,2
IB English 1,2	AP Statistics	IB German 1,2
Health 1, 2	Elements of Calculus: SHS pre-IB	IB Chinese 1,2
PE 1,2	Liberal Arts Math: SHS pre-IB	

Which courses end up being offered and the manner in which courses will be offered, either by SHS teachers or via a third party provider, will be determined based on student requests and staff availability. Many online courses will be taught by Salem High faculty; however, at times SHS will utilize third party providers such as Virtual Virginia. Students who elect to take classes online must take them in the manner determined by SHS. The delivery model will be communicated prior to the add/drop date to allow students the opportunity to add or drop an online course once the delivery method has been determined. Which

After counselors receive completed applications and decisions are made regarding acceptance, counselors will schedule personalized registration meetings to help online students and families make appropriate decisions and to answer questions about what and how courses are offered.

See your counselor to get more information and to pick up an application.

Course Guide

SHS encourages its students to choose challenging courses. Research shows the rigor of classes taken in high school is an excellent indicator of future academic success.

Prior academic success is a helpful predictor of how a student will do in a course. Therefore, courses in this Registration Guide have their own recommendations to help students and families make appropriate choices.

Students and parents should take these recommendations into consideration when making course requests, and all students should speak with their current teachers and their school counselor for advice on what classes to take next year.

Art

Art Foundations (9120)

Prerequisite: None
Credit: 0.5 GPA: 4.0

This course is designed to introduce students to various techniques and media used in both two- and three-dimensional design. Students will study and work in such areas as drawing, painting, design, and art appreciation with emphasis on the elements of art and the principles of design. Students are responsible for some art supplies.

Advanced Drawing (9140)

Prerequisite: Art Foundations
Credit: 0.5 GPA: 4.0

This studio-oriented course is designed to provide students an opportunity to expand on experiences and processes learned in Art Foundations. Students are encouraged to develop independent thinking, self-confidence, self-expression, and perceptual awareness in solving accelerated studio problems. Areas of study include composition, sketching and shading techniques, perspective, figure drawing and portraits. Students are responsible for some supplies.

Ceramics 1 (9175)

Prerequisite: None
Credit: 0.5 GPA: 4.0

Ceramics 1 is a one semester course designed to introduce students to making projects out of clay by handbuilding and using the pottery wheel. Basic skills are taught through each project. You will make the coolest, most mind-blowing ceramic art the world has ever seen.

Ceramics 2 (9176)

Prerequisite: Ceramics 1
Credit: 0.5 GPA: 4.0

Ceramics 2 is a one semester class that could be requested simultaneously at the same time to follow the Ceramics 1 class or can be requested the next year. Students will continue their skills learned in the previous class and will be able to apply those skills to higher level projects. Larger vases, bowl sets, jars with lids, matching mugs, sculpture, and handbuilt larger items are created while increasing the skill levels.

Ceramics 3 (9162)

Prerequisite: Ceramics 2
Credit: 0.5 GPA: 4.0

Ceramics 3 is a one semester class that could be requested simultaneously at the same time to follow the Ceramics 2 class or can be requested the next year. This class further develops skills to the extent that students master the techniques of ceramics. Students create wheel thrown pottery from hollow closed forms, combining forms, and using these skills to create teapots, rice bowl sets, chip and dip platters, plates, sculptures and other indepth handbuilt projects. Students are asked to pay a \$10.00 materials fee, and will be able to keep the ceramics they create.

Beginning Painting (9130)

Prerequisite: None
Credit: 0.5 GPA: 4.0

Beginning Painting is a one-semester course designed to introduce students to varied painting techniques and media. Students will be introduced to basic color theory and will have opportunities to work in watercolor and acrylic painting. Students will be asked to furnish certain basic supplies.

Advanced Painting (9145)

Prerequisite: Beginning Painting
Credit: 0.5 GPA: 4.0

Advanced Painting is a one-semester course presenting students with the opportunity to further express themselves through painting. Students will work with watercolor and oil paints while studying and experimenting with various painting styles. Students will be asked to furnish certain supplies.

Advanced Graphic Arts (9153D)

Prerequisite: Adobe Photoshop or Adobe Illustrator; with Instructor Permission
Credit: 1.0 GPA: 4.0 **VWCC**

Advanced Graphic Arts is a year long course designed to further student knowledge and understanding of Adobe applications and the elements of art and principles of design. Class assignments, lessons, and commercial projects will allow students to develop practical skills in graphic design, web design, photography, and Adobe applications. Activities call for students to apply problem solving methodology to analyze and formulate real world solutions. Students will work in a studio environment as a team to collectively accomplish individual and group projects. Students will put together a portfolio of work that will demonstrate a wide range of graphic design skills and have the option

to get their ACA Specialist certificate (Adobe Certified Associate). - Some studio fees may apply to this course.

Adobe Photoshop (9154)

Prerequisite: None

Credit: 0.5 GPA: 4.0

Adobe Photoshop is the premier software application used by artists, designers and creative professionals for different disciplines including graphic design, digital photography, web design, and many other industries. This semester course is designed to give students an introductory understanding of how to use Photoshop and perform many different image-processing techniques. Students will learn the Photoshop fundamentals including application tool sets, design terms and pixel based concepts to create/edit graphics and manipulate images. Various lessons, projects, and class assignments will assist students in learning how to select parts of images, retouching photographs, layers, filters, color modes, and many other specific Photoshop operations. - Some studio fees may apply to this course.

Adobe Illustrator (9180)

Prerequisite: None

Credit: 0.5 GPA: 4.0

Adobe Illustrator is the standard application used to create computer graphics, logos, fonts, and many other kinds of artwork. Graphic designers and other professional artists utilize Illustrator to create vector based artwork required for many creative businesses and commercial industries. Illustrator is a semester class where the fundamentals of producing, manipulating and commercial use of vector graphics is explored. Illustrator's numerous functions and tools are covered in sequence to produce geometric primitives (points, lines, and shapes) to create art that is clean, camera ready, and can be scaled infinitely, without any loss of quality or fidelity. A range of vector based concepts, lessons, and projects will be covered outlining specific standards used by graphic designers, printers and web developers. - Some studio fees may apply to this course.

Digital Photography (9190)

Prerequisite: None

Credit: 0.5 GPA: 4.0

Digital Photography is a semester class that will cover the fundamentals of cameras, lenses, lighting, image editing software (Adobe's Lightroom/Photoshop), and other basic photographic equipment. Digital Photography will cover essential camera concepts and functions such as aperture, shutter speed, ISO, and the production of a correct image exposure. School fields trips, class assignments, and student projects will comprise of portraits, still life's, food photography, and other photo related compositions based on the principles and elements of design. This class is an introductory course and is intended for students looking to explore or improve their skills in digital photography. Some studio fees may apply to this course.

IB Art 1: Higher Level (9147)

Prerequisite: Adv. Drawing or Departmental Approval;

Grade 11 or 12; Approval/application is required for all

Credit: 1.0 GPA: 5.0

IB Art 1 is the first class for students who plan to test in

IB Art at the higher level. Exact course requirements will depend on whether the student is taking the course on the standard level or higher level. IB diploma candidates may test in IB Art at the standard level as their sixth subject option. Studio work will represent a major part of the course of study. A research workbook (higher level) will comprise the remainder of study. Areas of study may include design, drawing, printmaking, commercial design, painting, aesthetics and art history. Students will be asked to pay a **\$50 materials fee** to assist with the cost of consumable materials that come home with students. Total fee is for the entire year.

IB Art 2: Higher Level (9149)

Prerequisite: IB Art 1: Standard Level; Grade 11 or 12,

Approval/application required for all

Credit: 1.0 GPA: 5.0

IB Art 2 is the second course in the IB Art sequence and in course design is very similar to IB Art 1. Areas of study may include aesthetics, design drawing, art history, painting and sculpture. Students will be asked to pay a **\$50 materials fee** to assist with the cost of consumable materials that come home with students. Students will have the opportunity to test for IB HL in the Visual Arts. Total fee is for the entire year.

Business Education

Digital Applications (6617)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This course introduces the use of office productivity software commonly used in business and industry. Students will demonstrate knowledge associated with basic computer functionality, touch typing skills, and the ability to create end-products using word processing, spreadsheet, and presentation software. This course is designed as a first step for students wishing to progress through more advanced business and information technology coursework.

Economics & Personal Finance (6120)

Prerequisite: None

Credit: 1.0 GPA: 4.0

Students will learn how economies and markets operate and how the United States economy is interconnected with the global economy. Students will learn basic consumer skills that will help them survive "life after graduation". Topics include: career exploration, budgeting, employment, savings options, investing, credit, managing debt, taxes, and insurance. Students take the WISE Financial Literacy Certification Test at the end of this course. **This satisfies the Financial Literacy and Economics Graduation Requirement.**

Online Econ. & Personal Finance (6120o)

Prerequisite: None

Credit: 1.0 GPA: 4.0

In this year-long class, students will learn how economies and markets operate and how the United States economy is interconnected with the global economy. Additionally, students will learn basic consumer skills

that will help them survive "life after graduation". Topics include: career exploration, budgeting, employment, savings options, investing, credit, managing debt, taxes, and insurance. Students enrolling in the online section should have strong study skills, good time management, and a willingness to work independently. Course content will be delivered through Virtual Virginia. Students will take the WISE Financial Literacy Certification Test at the end of this course. **This satisfies the Financial Literacy and Economics Graduation Requirement.**

Computer Info Systems (CIS) (6612)

Prerequisite: Grade 11 or 12

Credit: 1.0 GPA: 4.0

This year-long course trains students in advanced Microsoft Office business applications. Students complete applications using Microsoft Word, Excel, Access and PowerPoint and the integration of this software using business projects. Students learn skills needed in college and/or job applications. Students prepare for the MOS (Microsoft Office Specialist) Industry Certification related to this course. With teacher approval students may participate in the work study program, Cooperative Office Education (COE).

Accounting (6320)

Prerequisite: Grade 11 or 12 (recommended), Algebra

Credit: 1.0 GPA: 4.0

Accounting is a yearlong course designed to study basic principles, concepts, and practices of the accounting cycle for a service business and a merchandising business. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash control systems. Business ethics and professional conduct are emphasized. Students learn fundamental accounting procedures. Students planning to major in business in college or to work in business will benefit from this course.

Cooperative Office Ed (COE) (6799)

Prerequisite: Grade 11 or 12; Employment in a related field

Credit: 1.0 GPA: 4.0

This course is available to students who are enrolled in Accounting and/or Computer Information Systems. Cooperative Office Education is the supervised, on-the-job instruction phase of an occupational preparation program. Students combine classroom instruction with a minimum of 396 hours of continuous, supervised, on-the-job training during the school year. They receive one credit for the business class and another credit for COE.

Attention Co-op Students: Students requesting COE will not be released early unless they have a job. Until then, students stay in school in a study hall.

Business Law (6131)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Business Law is a semester course designed to help stu-

dents develop an awareness of the individual's legal rights and responsibilities in society. Emphasis is placed on studying legal issues from a business perspective. Topics include: the legal system, civil law, criminal law, business ethics, contracts, agency law, commercial and consumer law, and employee/employer rights and responsibilities. Students visit area courts to observe the judicial process.

Design, Multimedia, & Web Tech (6632A)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This semester course introduces the basics of desktop publishing using Adobe InDesign. This includes terminology, page layout and design, fonts, clip art, and graphic ideas. Digital photography and scanning will be addressed and incorporated into course work. Students will produce newsletters, programs, brochures, announcements, flyers, etc. Presentation portfolios will be developed.

Adv Design, Multimedia, Web Tech (6633A)

Prerequisite: Design, Multimedia, Web Tech or Desktop Publishing

Credit: 0.5 GPA: 4.0

This course builds on students' knowledge of design and layout. Students will create interactive multimedia, graphics, and website projects. Throughout the semester, students will compile a digital portfolio of their work.

IB Business and Management (6135IB)

Prerequisite: Grade 11 or 12 and a strong academic background is highly recommended due to the advanced nature of this course.

Credit: 1.0 GPA: 5.0

This International Baccalaureate course provides a rigorous and critical study of the ways in which individuals and groups interact in a dynamic business environment. It examines how business decisions are made, how decisions make an impact on internal and external environments, and how decisions foster international cooperation and responsible citizenship. Entrepreneurship and Infusion Units may be used to help students achieve additional, focused competencies and enhance the validated competencies related to identifying and starting a new business venture.

Computer Science

Computer Science Foundations (6644)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

This course is an introductory overview of computer science principles that focuses on the foundations of computer science and basic programming. Students will gain a broad understanding of the computer science field and learn how to think logically and creatively to solve a variety of problems. Topics include cybersecurity and digital citizenship, coding with JavaScript, how the Internet works, programming with graphics, and event-driven program design. Students will complete a variety of creative computing projects using JavaScript, HTML and other tools/languages.

AP Computer Science A (Java) (3185)

Prerequisite: Completion of a previous full-year programming course or instructor approval

Credit: 1.0 GPA: 5.0 **NCAA**

AP Computer Science A (Java) students will learn to design and implement computer programs that solve problems relevant to today's society. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize critical thinking and algorithm development by using hands-on experiences to design, write, and test computer programs that solve problems and/or accomplish tasks. This course will prepare students for the end-of-course AP Exam.

Introduction to Game Design (6640)

Prerequisite: None; Algebra 1 and strong mathematical reasoning skills are strongly recommended.

Credit: 1.0 GPA: 4.0 **NCAA**

This course teaches the foundations of creating video games in JavaScript. The content focuses on the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Students use a graphic environment to learn basic programming concepts, including logic, control structures, using variables, and data structures. Students will create a variety of video games that highlight the skills and concepts needed to learn to use more sophisticated programming languages.

Foundations of Cybersecurity (6302)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Foundations of Cybersecurity is a semester course designed to develop the knowledge and skills needed to master core concepts in cybersecurity. Course material is current with changes in technology and threat landscape. Students will learn foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration. Students will complete a variety of projects that highlight the importance of specific topics related to cybersecurity. This is not a coding intensive course, but students will learn basic SQL, and will utilize basic HTML and JavaScript within specific contexts.

Mobile Apps (6641)

Prerequisite: Completion of a previous full-year programming course or instructor approval

Credit: 1.0 GPA: 4.0 **NCAA**

In this course, students will design and build applications to run on their own smartphones and will use the latest tools and technologies available for mobile app development. Students will learn the foundations of the React Native framework, components, and how to use components to create scalable, custom, and fast mobile applications. Students will also learn about important computer science topics including state changes, using XML and stylesheet objects, mapping through objects, rendering dynamic data, and creating modular app layouts with flex and the Dimensions API.

AP Computer Science Principles (10160)

Prerequisite: 10th grade or instructor approval

Credit: 1.0 GPA: 5.0 **NCAA**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the field of computer science. Students design and evaluate solutions and apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover knowledge. Students explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a collaborative and ethical computing culture while preparing for the end-of-course AP Exam.

English

English 9 (1130) SOL COURSE

Prerequisite: Grade 9

Credit: 1.0 GPA: 4.0 **NCAA**

In English 9, students study the five English strands—oral language, grammar, reading/literature, writing, and research. Language study emphasizes oral skills. In literature, students study a variety of literary types. Throughout the course, students incorporate different kinds of writing into classroom activities. Students also learn and practice library and research skills and participate in listening and speaking activities and basic computer skills.

English 9: SHS pre-IB (1130IB) SOL COURSE

Prerequisite: Grade 9; score of 475 or above on all previous English SOLs is strongly recommended.

Credit: 1.0 GPA: 4.5 **NCAA**

This is designed for students who are competent, independent readers and writers. The major concepts of this course will include, but not be limited to, instruction in the backgrounds and critical analyses of major literary works representing various genres, with emphasis on American literature. Composition focuses upon using the writing process to develop themes and includes application of research skills. Vocabulary study will focus on preparation for College Entrance Examination. **Summer reading is required and is assigned by the instructor.**

English 10 (1140) SOL COURSE

Prerequisite: Grade 10

Credit: 1.0 GPA: 4.0 **NCAA**

This college and career preparatory class will integrate the study of language with the study of literature and writing. In literature, emphasis is placed on analyzing works from a variety of eras and cultures, including short stories, novels, fiction, and nonfiction texts. This class will also focus on the grammar, vocabulary, communication, research, and writing composition skills necessary to demonstrate readiness on the Virginia End-of-Course writing assessment. Students will practice informal and formal writing and revision processes, focusing on persuasive composition, technical writing, and the research paper. Language study will focus on the mastery of grammar, usage, and mechanic skills.

English 10: SHS pre-IB (1140IB)

Prerequisite: Grade 10; A grade of "B" or better in English 9: SHS pre-IB or an "A" in English 9 are strongly recommended

Credit: 1.0 GPA: 4.5 **NCAA SOL COURSE**

This college and career preparatory class will integrate the study of language with the study of literature and writing. In literature, emphasis is placed on independently reading and analyzing works from a variety of eras and cultures, including short stories, novels, fiction, and non-fiction texts. Designed for students that demonstrate SOL writing skill readiness at the completion of 9th grade, this class will hone analytical skills to be applied in compositions, presentations, discussions, and the research paper. Students will practice informal and formal writing and revision processes, focusing on the mastery of complex vocabulary, grammar, usage, and mechanic skills. **Summer reading is required and is assigned by the instructor.**

AP Language and Composition (1196)

Prerequisite: Only Grade 10; An "A" in all previous English courses and pass advanced SOL scores are strongly recommended

Credit: 1.0 GPA: 5.0 **NCAA VWCC SOL COURSE**

Designed for students demonstrating readiness for collegiate-level writing, this class is an advanced study of language and composition in all forms. In literature, emphasis is placed on independently reading and analyzing works from a variety of eras and cultures. Students analyze authors' purpose when composing text and the rhetorical elements employed to manipulate an audience. Students analyze composition styles authors utilize when writing, and improve their own writing and communication through frequent practice of different composition forms. This course is an intensive writing experience; students will be required to complete in-class timed essays, out-of-class polished works, reflective writing, journaling, peer and self-edits, research projects, and other written and spoken activities designed to increase mastery of rhetorical techniques. **Summer reading is required and is assigned by the instructor.**

English 11 (1150) SOL COURSE

Prerequisite: Grade 11

Credit: 1.0 GPA: 4.0 **NCAA**

In English 11, students study the five English strands - oral language, grammar, reading/literature, writing, and research. The curriculum includes a survey of American literature, including the study of short fiction, poetry, and the novel, in addition to analysis of non-fiction selections; formal composition of analytical essays; and practice in written and verbal communication. Language study focuses on elimination of errors in grammar and usage/mechanics.

English 11: College Prep (1151) SOL COURSE

Prerequisite: Grade 11; Recommended for students who earned a "B" or better in English 10

Credit: 1.0 GPA: 4.0 **NCAA**

English 11: College Preparatory aims to develop in college-bound students the reading and writing skills necessary for successful performance at the college

level. Instruction methods include discussion, lectures, models, group work, and audiovisual presentations. The course emphasizes literary analysis of significant works of American literature – both classic and contemporary, written analysis of these works, the elimination of common errors in formal composition, grammar skills necessary for proper composition style, the writing of expository essays, and the preparation of the research paper. Vocabulary study will focus on preparation for college entrance exams, such as the SAT and ACT. Students should expect to do the majority of reading and essay writing outside of class.

Students enrolled in English 11 CP will NOT be able to switch to English 11. Summer reading is required and is assigned by the instructor.

IB English 1 (1150IB) SOL COURSE

Prerequisite: Grade 11 or 12; Successful completion of

English 10: SHS pre-IB or English 11 CP is required and a grade of "A" in either is strongly recommended.

Credit: 1.0 GPA: 5.0 **NCAA**

IB English 1 focuses on selections from American, British, and World literature, building on concepts and skills taught in SHS pre-IB English 9 and 10. Particular emphasis is placed on development and enhancement of organizational skills, analytical abilities, an appreciation for an author's technique and purpose in writing and linguistic accuracy and effectiveness in both written and oral communication. Students study a variety of poetry and prose selections, including examples of nonfiction expository writing and should already have advanced composition skills and knowledge of literary periods, terms, and genres before entering IB English 1. IB texts are chosen from a list provided by the IB Organization. Many of the texts deal with contemporary themes and are chosen to complement one another for comparative analysis. A list of each year's texts is available from the SHS IB office. **Summer reading is required and is assigned by the instructor.**

English 12: Heroes and Villains (1160A)

Prerequisite: Grade 12

Credit: 1.0 GPA: 4.0 **NCAA**

This college prep class includes the study of heroes and villains from British literature and beyond, while honing grammar and composition skills appropriate to college and the business world. Today's graduates need to possess skills in written and oral communication as well as in higher level thinking, research, and problem solving. The curriculum integrates academic and career readiness skills, with a focus on oral communication, research, writing, and reading. Students will also focus on a particular career or career cluster and develop a summative portfolio that demonstrates their abilities to think critically, solve problems, and communicate effectively, which will be presented in a culminating exit interview prior to graduation.

English 12: Not the Novel - Exploration of Nontraditional Text (1160B)

Prerequisite: Grade 12

Credit: 1.0 GPA: 4.0 **NCAA**

This college prep course will focus on the exploration of nontraditional text (novellas, graphic novels, short stories,

plays, and poetry), while honing grammar and composition skills appropriate to college and the business world. Today's graduates need to possess skills in written and oral communication as well as in higher level thinking, research, and problem solving. The curriculum integrates academic and career readiness skills, with a focus on oral communication, research, writing, and reading. Students will also focus on a particular career or career cluster and develop a summative portfolio that demonstrates their abilities to think critically, solve problems, and communicate effectively, which will be presented in a culminating exit interview prior to graduation.

English 12 College Prep: Contemporary Literature and Pop Culture (1161A)

Prerequisite: Grade 12; A grade of "B" or better in 11th grade English course is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

In this advanced college prep course, students study a variety of literature with a focus on modern texts written after 1940. Students continue to expand vocabulary and to develop skills in writing paragraphs, essays, and documented papers. They practice advanced composition skills and will also develop skills in critical thinking and analytical writing. Students will develop a literature-based portfolio to demonstrate growth in literary analysis and composition skills. Students should expect the majority of reading and essay writing to be done outside of class. Students enrolled in Contemporary Literature and Pop Culture will NOT be able to switch to Not the Novel or Heroes and Villains. **Summer reading is required and is assigned by the instructor.**

English 12 College Prep: Literature in Fiction, Films, and Plays (1161B)

Prerequisite: Grade 12; A grade of "B" or better in 11th grade English course is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

In this advanced college prep course, students study major dramatic works, including plays, scripts, and screenplays. Students continue to expand vocabulary and to develop skills in writing paragraphs, essays, and documented papers. They practice advanced composition skills and will also develop skills in critical thinking and analytical writing. Students will write a script or screenplay of their own as a final production component. Students should expect the majority of reading and essay writing to be done outside of class. Students enrolled in Literature in Fiction, Films, and Plays will NOT be able to switch to Not the Novel or Heroes and Villains. **Summer reading is required and is assigned by the instructor.**

IB English 2 (1160IB)

Prerequisite: Grade 12; IB English 1

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This follows IB English 1 sequentially, and provides direction to students in their preparation for the higher level International Baccalaureate examination in English by strengthening independent critical-thinking skills in the study of literature and fostering a high level of achievement in both written and oral communication. This focuses on readings from all areas of literature emphasizing selections

from cultures other than American and British. Methods of instruction are determined by the instructor and include the oral and written assessments prescribed by International Baccalaureate. Many of the texts deal with contemporary themes and are chosen to complement one another for comparative analysis. A list of each year's texts is available from the SHS IB office. **Summer reading is required and is assigned by the instructor.**

Creative Writing 1 (1171)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Designed to meet students at their present writing level, this emphasizes the concept of "writing with power," and finding the students' style and "voice" as writers. Through instruction and interaction with other student writers, students develop strategies to generate, develop, and revise their writing. Students will study and write from the following categories: journal, poetry, short story, autobiography, descriptive and narrative writing, interviewing, characterization, point-of-view, and children's stories. Students will generate a final portfolio of their best work for assessment, oral sharing, and publication at the end of the course.

Creative Writing 2 (1177)

Prerequisite: Creative Writing 1

Credit: 0.5 GPA: 4.0 **NCAA**

This course is an accelerated review of strategies covered in Creative Writing 1, with emphasis placed upon editing for publication. Students will be strongly encouraged to submit work to the school's literary magazine, Delphi. Focus will be placed on workshop style editing to advance student's abilities and understanding of writing fiction, nonfiction, and poetry. The course will culminate in a portfolio style collection of the student's work over the course of the semester.

IB Extended Essay 1 (1517IB)

Prerequisite: IB Diploma Candidate

Credit: 0.0 GPA: 0.0 **NCAA**

IB Extended Essay 2 (1518IB)

Prerequisite: IB Diploma Candidate

Credit: 1.0 GPA: 5.0 **NCAA**

Students pursuing the IB Diploma are required to register for Extended Essay the first semester of their junior year and then again the second semester of their senior year. This course helps with the writing of the 4,000 word extended essay. In the first semester, each student explores topics, chooses an advisor, and begins researching. The rough draft is due the first semester of the senior year, and the final is turned in the second semester. The IB office supplies the text for the course. Both Extended Essays are semester classes. Students do not receive credit for IB Extended Essay 1 but will receive one (1) full credit after completing the semester of IB Extended Essay 2.

Classical Mythology (1519)

Prerequisite: None; Recommended for College Bound Students

Credit: 0.5 GPA: 4.0 **NCAA**

Classical mythology will appeal to those who enjoy reading Greek and Roman myths or folklore. Reading and class discussion will go beyond the 12 main gods and goddesses

to include a study of the major myths (creation, the great flood, the twelve labors of Hercules, Theseus and the Minotaur, Jason and the Argonauts, Perseus and Medusa, etc.), the Trojan War, heroes, monsters, the ancient concept of death and the underworld, and the zodiac. An effort will be made to relate mythology to music, art, literature, and today's world. Assignments will consist mainly of reading and small projects.

Photojournalism: Yearbook (1215)

Prerequisite: By application

Credit: 1.0 GPA: 4.0

The yearbook staff produces the school's award-winning yearbook, *The Laconian*, using Adobe InDesign and Photoshop. Students gain experience in layout and design, interviewing, writing, photography, small-business, and sales, while also learning to be committed to a team. The staff meets during a scheduled class time, but after-school hours are often necessary in order to meet deadlines. Students are also encouraged to attend workshops in the summer. The staff is selected by an application process. Applications are available from the adviser in the spring.

Family & Consumer Sciences

Exploring Foods (8249)

Prerequisite: 9th or 10th grade; 11th and 12th may only request as an alternate

Credit: 0.5 GPA: 4.0

Designed to introduce students to selection and preparation of menu basics, this course provides opportunities through demonstrations, guest speakers, labs, individual and team projects and field experiences. Topics will include safety and sanitation principles; analysis of food choices; teambuilding exercises; planning and preparing principles; introduction to equipment and usage; terminology; following and analyzing recipes; exploring career options; and food presentation and evaluation. Students will be required to provide and to wear rubber-soled shoes and use hair covering and wear jacket/apron as provided. Students are encouraged to have active participation in FCCLA.

Gourmet Cuisine (8275)

Prerequisite: Grade 11; or completed Exploring Foods with "C" or better. 12th graders may only sign up as an alternate.

Credit: 1.0 GPA: 4.0 **VWCC**

This course is designed to investigate principles and styles of food preparation. Students will be given opportunities to perform side work, explore regional foods and service styles, practice simple catering and banquet functions, explore professional opportunities, develop menus, investigate costing and purchasing principles and prepare and serve at various functions. Practical sanitation skills will be emphasized. Class activities will include field trips, demonstrations, guest lecturers, individual and team labs. Students will be required to provide and to wear rubber-

soled shoes and use hair covering and wear jacket/apron as provided. Students are encouraged to have active participation in FCCLA.

Culinary Essentials (8276)

Prerequisite: Grade 11 or 12; Gourmet Cuisine with C or better and MUST have passed Serv-Safe Certification test.

Credit: 2.0 GPA: 4.0

This course is designed to investigate principles and styles of food preparation. Students will be given opportunities to perform side work, explore regional foods and service styles, practice simple catering and banquet functions, explore professional opportunities, develop menus, investigate costing and purchasing principles and prepare and serve at various functions. Practical sanitation skills will be emphasized. Class activities will include field trips, demonstrations, guest lecturers, individual and team labs. Students will be required to provide and to wear rubber-soled shoes and use hair covering and wear jacket/apron as provided. Students are encouraged to participate in FCCLA.

Intro to Early Childhood Ed (8233EC)

Prerequisite: 9th or 10th grade; 11th and 12th may only request as an alternate

Credit: 0.5 GPA: 4.0

This course serves as an introductory class for the Early Childhood Education program. Students learn about parenting through the study of the intellectual, social-emotional, and physical growth and development of children in the ages of early childhood. This class also provided the opportunity to explore careers in the early childhood education field. Class activities include lecture-demonstrations, live events, and individual projects. Child Development students and their parent/guardian will be expected to sign and abide by the Early Childhood Education Code of Ethics Contract. Students are encouraged to have active participation in FCCLA.

Early Childhood Education 1 (8285)

Prerequisite: Grade 12 or completed Intro to ECE with "C" or better and submission of completed application packet. Preference given to ECE CTE completers.

Credit: 1.0 GPA: 4.0

This course is designed to teach basic skills of child development in an early childhood setting. Students will have opportunities to observe, plan, and participate in developmentally appropriate children's activities. Early Childhood Education students and their parent/guardian will be expected to sign and abide by the ECE Code of Ethics Contract. This is an excellent course for any student interested in working with young children or in a teaching career.

Please note: This is a highly requested course; therefore, students must intend to remain in this course for the entire school year. Also, students are selected for this course by an application process. Applications are available from the instructor during 2nd semester. Students are encouraged to participate in FCCLA.

Early Childhood Education 2 (8286)

Prerequisite: "C" or better in Early Childhood Education 1 and submission of completed application packet.

Credit: 2.0 GPA: 4.0

This two-period course is the second year of a two-year Early Childhood Education program. Students completing this program will be prepared to be a child care aide, teacher's aide, or pursue collegiate study in early childhood education. ECE 2 emphasizes an advanced study of child development; curriculum planning implementation; and developmentally appropriate practices. Qualifying students may combine classroom instruction with teaching internships. Early Childhood Education students and their parent/guardian will be expected to sign and abide by the ECE Code of Ethics Contract. **Please note: This is a highly requested course; therefore, students must intend to remain in this course for the entire school year. Students are selected for this course by an application process. Applications are available from the instructor during 2nd semester.** Students are encouraged to have active participation in FCCLA.

FACS Internship (8215-sem; 8216-FY)

Prerequisite: C or better in ECE 2, submission of completed application packet and selection interview.

Credit: 0.5-2.0 GPA: 4.0

These courses are available to qualifying students enrolled in the Culinary Arts and Early Childhood Education programs. Speciality areas for the ECE internships include, but are not limited to, educational opportunities in elementary, ELL, and Special Education. This unpaid work experience provides the opportunity for students to apply classroom knowledge in a professional setting. A training agreement is developed by the employer, teacher-coordinator, and the student. **Also, students are selected for this opportunity by an application process. Applications are available from the instructor during 2nd semester. Once the completed application packet is submitted, an interview will be scheduled with the Selection Committee.**

Health & Physical Ed

Health Education 1 (7320)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This course will focus on the following topics: Health and Wellness, Healthy Family Relations, Consumer Health, Alcohol, Tobacco and Drugs, Communicable Diseases, Systems of the Body, Family Life, First Aid & CPR, Health Related Emergencies, Safety and Well-being, Internet Safety, Resolving Conflict and Preventing Violence. All students will complete the VDOE First Aid and CPR requirement for Health 1.

Health Education 2 (7420)

Prerequisite: Health Education 1

Credit: 0.5 GPA: 4.0

Health 2 will focus on the following topics: Stress Management, Mental Health, Mental Health Disorders, Physical

Fitness, Wellness, Decision Making, Nutrition, Infectious Disease, Steroids & Performance Enhancing Drugs, and Internet Safety. Health 2 students participate in Drug Abuse Resistance Education sponsored by SHS and the Salem Police. The SHS Counseling Department will also present a Signs of Suicide Prevention Program.

Online Health 1 or 2 (7320, 7420)

Prerequisite: Health 1 required to take Online Health 2

Credit: 0.5 GPA: 4.0

These courses are year-long alternatives to the corresponding semester courses taught at SHS. Students enrolling in the online section should have strong study skills, good time management and a willingness to work independently. These classes do NOT meet during the normal school day. They are introductions to the same health topics covered during the semester course.

PE 2 - Lifetime Fitness (7640)

Prerequisite: PE1 (counts as a PE graduation req)

Credit: 0.5 GPA: 4.0

This course focuses on lifetime fitness, recreational sports, and team sports activities. The student will demonstrate the ability to independently apply basic FITT principles of training and intensity level concepts to help increase physical activity and improve personal fitness. The student will apply appropriate training principles in multiple lifetime fitness activities, while demonstrating appropriate behavior in all physical activity settings. All students will be encouraged to pursue lifetime fitness and sports based activities after they graduate from high school.

PE 2 - Rhythmic Movements (7640D)

Prerequisite: PE1 (counts as a PE graduation req)

Credit: 0.5 GPA: 4.0

This course focuses on lifetime fitness with an emphasis on rhythmic movements and dances through the ages. The student will participate regularly in health-enhancing physical activities that contribute to personal enjoyment and the attainment and maintenance of personal physical activity goals. The student will use a variety of resources and technology to help enhance his/her personal physical activity experience

Adaptive Physical Education (7700)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This course is structured to meet the needs of the permanently or temporarily disabled students. Such students require individualized instruction based upon their needs. This course will focus on enhancing physical fitness, muscle strength, flexibility, endurance, coordination and social development through a wide variety of activities and skill based movement.

Weight Training (7650A)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This elective course is designed to provide students with a variety of opportunities to acquire basic knowledge/skills in weight training. The student will understand key concepts that include analysis of performance, application of principles

of movement and principles of training while setting goals to help improve personal skills. The student will create a plan for future physical activities beyond school years. Students will receive individualized instruction on safe and proper lifting techniques. This course does not satisfy a PE requirement.

Sports Administration & Sports Management (9826a)

Prerequisite: Must have completed Health and P.E. graduation requirements

Credit: 0.5 GPA: 4.0

This course will combine theory and practical application to provide an overview of all facets of sports administration and sports management. The course will place a focus on the foundations of sports management, sports administration, broadcasting, communications, sports information, parks and recreation management, coaching, and officiating. The instructor will work in conjunction with local universities, colleges, sports governing bodies, parks and recreation agencies, and officiating governing bodies to provide real world experiences for our students. Our goal is to give our students the knowledge base necessary to pursue a career and/or job placement in sports administration and sports management.

Strength & Conditioning (7650A)

Prerequisite: Health 1, P.E. 1, Must have a specific sport in mind for training purposes

Credit: 0.5 GPA: 4.0

This familiarizes students to an approach at athletic conditioning and strength training, and promotes the student's knowledge in developing, tracking and learning about resistance training as it relates to athletics. Students develop a weight-training program based on a personal fitness goal. Students will be instructed in basic principles of strength training & conditioning for personal fitness and development. The focus is on strength training which includes instruction in lifts & principles of strength training and conditioning. Students will be provided quality workout opportunity based on the strength training principles taught. Topics include systematic strength training, plyometric (explosion) training, speed & agility training, physiology of exercise, and other training methods. Tests and measurements of fitness, strength, & conditioning, as a means of evaluating progress, will be part of this course. The instructor works with SHS coaches to target sport specific assessments for each student in the class.

Personal Training (7660B)

Prerequisite: Health 1, PE 1

Credit: 0.5 GPA: 4.0

This course is designed to prepare students with the knowledge, skills, and competence to conduct fitness assessments and to design exercise programs for various populations. Students will gain practical experience related to healthy fitness management programs, basic exercise physiology and nutrition. Course participants might seek future employment in health clubs, fitness centers, or wellness centers. Job activities might include fitness testing, identifying risk factors, conducting individual and group exercise programs, counseling clients in behavior modi-

fication, and designing individualized fitness programs. The goal is for our students to develop a personal training knowledge base that will make them more marketable for future internships, partnerships, and employment opportunities in the fitness industry. This course does not meet the graduation requirement for Health and PE.

Introduction to Sports Medicine (7660ISM)

Prerequisite: None

Credit: 0.5 GPA: 4.0

Introduction to Sports Medicine is a practical course that will introduce the students to the field of Sports Medicine and potential career paths in medicine. This course will focus on anatomy/physiology, prevention, treatment, & rehabilitation of Sports Medicine injuries.

Sports Medicine 2 (7660SM)

Prerequisite: Intro to Sports Medicine, Health 1, PE 1

Credit: 0.5 GPA: 4.0

This course will combine the base knowledge from Introduction to Sports Medicine and practical application to provide the students a deeper look into the sports medicine field. This course will build on the foundation from SM I, broadening the scope of anatomy/physiology, prevention, treatment, nutrition in sports, & rehabilitation of Sports Medicine injuries.

Sports Medicine 3 - Internship (7660SMI1)

Prerequisite: Instructor Approval

Credit: 0.5 GPA: 4.0

This course will combine the knowledge base from both Introduction to Sports Medicine and Sports Medicine 2. This course will be designed to apply content knowledge and skills learned in a sports medicine clinical setting. This course will continue to focus on the anatomy, physiology, prevention, treatment, rehabilitation, and nutrition related to sports medicine injuries. Sports Medicine 3 will also introduce the students to surgical techniques, diagnostic imaging, medications, and post-surgery/post-injury rehabilitation. Students will be required to complete a minimum of five hours per week in the athletic training room.

Driver's Ed: Sem 1/Sem 2 (7015 & 7016)

Prerequisite: Age 15 years 6 months; Learner's permit

Credit: 0.0

Driver Education is a noncredit course and includes two phases: classroom and on-the-road instruction. Emphasis is placed on attitude and on skills that are vital to basic driving behavior. Much concentration and practice outside of school are mandatory. State minimum requirements of 36 hours in classroom, 7 hours in-car observation, and 7 hours in-car driving must be met. In order to balance classes, students may be reassigned by counselors or administrators.

History & Social Science

Modern World History (2342) SOL COURSE

Prerequisite: None

Credit: 1.0 GPA: 4.0 **NCAA**

Modern World History incorporates a study of history and geography from the late Middle Ages (1500 AD) to the present with a strong emphasis on the history and development of western civilization. Topics include the evolution of nation-states, scientific and technological revolutions which create new economic models, social and political changes, and the biographies of individuals who contributed to the societal development. Strong connections will be drawn between historical events and contemporary issues.

Ancient World History (2341) SOL COURSE

Prerequisite: Grade 10-12; or Modern World History

Credit: 1.0 GPA: 4.0 **NCAA**

Ancient World History examines the historical development of the world, its peoples, and the patterns of life and its development. Students will study their heritage and traditions from prehistory to 1500 AD. The course emphasizes the Greek, Roman, and Byzantine cultures and the role played by the Mediterranean nations in the development of the Western world. Eastern cultures of India, China, Japan, Africa, and Central America will also be examined.

US and Virginia History (2360) SOL COURSE

Prerequisite: Grade 11

Credit: 1.0 GPA: 4.0 **NCAA**

This course is a survey of United States History from the pre-colonial period to the present. Emphasis is placed on mastering social studies skills, studying important people and events, developing historical concepts, and relating current issues to historical events. The study is chronological and complements 11th grade literature. Virginia and United States History fulfills the United States History requirement for graduation.

US and Virginia Government (2440)

Prerequisite: Grade 12

Credit: 1.0 GPA: 4.0 **NCAA**

This course surveys the basic principles of American Government and is designed to help students understand the structure, function and operation of local, state and federal government. The course provides an examination of politics, which should be a part of every citizen's education, and fulfills the government requirement for graduation.

AP US/VA History (2319) SOL COURSE

Prerequisite: A grade of "A" in previous social studies course is strongly recommended. A pass advanced on a previous SOL writing test is also recommended.

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This is the equivalent of a two-semester survey course in college. If dual enrolled, students may earn college credit for HIS 121 and HIS 122 at Virginia Western Community College. Students investigate significant events, individuals, developments, and processes in nine historical periods from 1491 to the present. Strong writing background

recommended; AP level essays are a major component of this class. The course includes an end of course AP exam that universities use to evaluate whether qualified students receive college credit or advanced placement.

AP US/VA Government: (2445)

Prerequisite: AP US History; A grade of "B" or better in AP US/VA History is strongly recommended

Credit: 1.0 GPA: 5.0 **NCAA**

This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Analysis of Supreme Court cases, policy topics, and constitutional issues will be a focus. Strong writing background recommended; AP level essays are a major component of this class. The course includes an end of course AP exam. The course includes an end of course AP exam that universities use to evaluate whether qualified students receive college credit or advanced placement.

Practical Law (2420)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Practical Law is designed to help students develop an understanding of basic civil and criminal law and their legal rights and responsibilities. Other areas to be studied include civil rights, juvenile rights, law enforcement procedures and the penal system. Students will visit the local jail, the courthouse, and will attend a jury trial. Law enforcement officers will be invited to speak to the class about their particular interest areas.

Sociology (2500)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Sociology is the study of society, its structure, and its dynamics. There is a major focus on culture and its role in shaping individuals and their values. Modern social problems are also examined. The study is achieved through classroom lecture, discussion, experiments, outside readings, guided research and projects.

Psychology (2900)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Psychology provides students opportunities for understanding themselves. The course provides background for the study of post-secondary psychology through the explanation of its various fields. Emphasis will be on practical insights into everyday behavior and on a survey of the major areas of study in psychology. Topics of study include learning, memory and thought, the body and behavior, sensation and perception, stress, developmental psychology and relational psychology.

Comparative Religions (2996)

Prerequisite: None

Credit: 0.5 GPA: 4.0 **NCAA**

Comparative Religions will concentrate on the ideals and history of classic world religions, such as Buddhism, Christianity, Hinduism, Islam, Judaism and others. The

course is intended neither to convert students to any particular religious view nor to persuade them to reject any or all religion. The purpose, rather, is to assist students in developing an informed appreciation for the religious life of humankind. Emphasis will be placed on the role of religion in the modern world and its continuing importance to many different societies, cultures and events. Areas of instruction will include historical and philosophical underpinnings of world religions, the connections between religion and culture and the role that religion plays in current world affairs.

IB TOK 1 & 2 (2997IB & 2998IB)

Prerequisite: IB Diploma Cand; or enrolled in 4 IB Courses
Credit: 0.5 GPA: 5.0 **NCAA**

The objective of the Theory of Knowledge (TOK) course is not to learn new "knowledge" but to increase the student's understanding of what they have already learned and to help them reflect upon it. The process of reflection will be a critical examination of what the student claims to know and what is professed as knowledge by others. The student will examine how the forms of knowledge relate to one another, and how to think critically. There is an integration of all subject areas and the spirit of inquiry and its expression will enhance oral and written skills. This course is a requirement for the IB Diploma and scheduling preference is given to IB Diploma Candidates.

IB History 1 (2360IB) SOL COURSE

Prerequisite: AP US/VA Government; A grade of "B" or better in AP US/VA Government is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This course is designed to cover specific topics in world history from the Early Modern States to the Cold War. It will be taught at the eleventh grade level to IB candidates and will serve as preparation for IB History 2 and the higher level history examination. Topics included for study are: causes, practices, and effects of war; nationalist and independence movements; decolonization and the emergence and problems of new nations; economic developments; social change; the rise and rule of authoritarian states; the establishment and work of international organizations; religion and politics; East/West relations after 1945; and minorities in the 20th century.

IB History 2 (2361IB)

Prerequisite: IB History 1; A grade of "B" or better in IB History 1 is strongly recommended. Grade 12.

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This course is designed to cover specific topics in world history from the causes of World War I to the start of the Cold War. It will be taught at the twelfth grade level to IB candidates and will serve as their final preparation for the higher level history examination. In addition to the world history topics listed under the description of IB History I, this course offers a detailed regional study of 20th century Europe. The main focus of the regional study will be political, but social, economic, and cultural aspects will also be emphasized. Students will begin work on their guided course-work project, a 2,500-word research paper and will take the IB examination in May.

African American History (2371)

Prerequisite: Must have completed US/VA History

Credit: 0.5 GPA: 4.0

This course will survey African American history from precolonial Africa through the present. Students will be introduced to key concepts in African American history from early beginnings in indigenous Africa through the transatlantic slave trade, the Civil War, Emancipation, Reconstruction, the Civil Rights era and into the present. The course, offered in a variety of learning models, will give students an opportunity to explore social events and processes, individuals and agency, documents and institutions; and analyze past and present positions for future implications for African Americans. This course does require students to complete a Capstone project. Students will pursue independent research relative to the content on a question or problem of their choice and produce a learning object that reflects a deeper understanding of African American history.

Marketing

Intro: Sports and Entertainment (8111b)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This course allows students to develop an understanding of general marketing concepts and theories as they relate to the sports, entertainment, and recreation industries. Topics included in this course are: the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports, entertainment, and recreation events. DECA membership is optional.

Intro: Fashion (8247)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This course is designed for students to develop general marketing skills related to the fashion industry. The focus will be on personal selling, sales promotion, purchasing, distribution, market planning, and product/service management in the apparel and accessories industry. DECA membership is optional.

Marketing (8120)

Prerequisite: Must be in grade 10-12

Credit: 1.0 GPA: 4.0

Marketing is designed for students pursuing a career in marketing. The course provides students with instruction that enables them to obtain and to succeed in a marketing occupation. Students develop competencies in selling, merchandising, communications, economics, sales promotion, mathematics, human relations, employment and advancement, and self-development. Customer Service and Professional Sales certifications through the National Retail Federation are available to enrolled students. A \$20 fee is recommended for membership in the DECA Chapter.

Marketing Co-op (8199A)

Prerequisite: Must be enrolled in Marketing or Advanced Marketing; Instructor Permission Required

Credit: 1.0 GPA: 4.0

Students enrolled in Marketing (8120) will have the opportunity to earn additional credit through participation in Marketing Co-op. It is designed for students to combine classroom instruction and practical work experience. Students have a minimum of 396 hours of continuous, supervised, on-the-job training during the school year in a local marketing business. Unsatisfactory progress in Marketing could cause the student to be removed from co-op.

Attention Co-op Students: Students requesting Co-op classes will not be released early from school until they have a job. Until then, students will stay in school be placed in a study hall.

Advanced Marketing (8130)

Prerequisite: Marketing

Credit: 1.0 GPA: 4.0

Advanced Marketing enables students to develop an understanding of current trends and issues in marketing related to personal selling, advertising, distribution, communications, employment, and the global economy. Students develop leadership skills and are involved in community service events through the DECA Club. Customer Service and Professional Sales certifications through the National Retail Federation are available to enrolled students. A \$20 fee is required with membership in the DECA Chapter.

Advanced Marketing Co-op (8199B)

Prerequisite: Marketing Co-op; Must be enrolled in Advanced Marketing; Instructor Permission Required

Credit: 1.0 GPA: 4.0

Any student enrolled in Advanced Marketing (8130) will have the opportunity to earn additional credit through Advanced Marketing Co-op. It is designed for students to combine classroom instruction and practical work experience. Students must have a minimum of 396 hours of continuous, supervised, on-the-job training during the school year in a local marketing business. Unsatisfactory progress in Advanced Marketing (8130) could cause the student to be removed from this co-op class.

Mathematics

Algebra 1 (3132) SOL COURSE

Prerequisite: Pre-Algebra 8

Credit: 1.0 GPA: 4.0 **NCAA**

Algebra 1 is one way to begin the sequence of earning three credits of mathematics. Students should develop self-reliance and a questioning attitude, as well as verbal and written precision in applying algebraic processes to mathematical problems. Topics to be studied include fundamental algebraic language, the real number system, linear and quadratic equations

and inequalities, polynomials, factoring, coordinate graphing, systems of linear equations and inequalities, rational expressions, radicals, and statistics.

Computer Mathematics (3184)

Prerequisite: Completed or currently enrolled in Algebra 1.

This class is not intended for those who are enrolled in or have completed Algebra 2.

Credit: 1.0 GPA: 4.0

Computer Math provides an introduction into the Computer Science pathway and is not intended for students who are enrolled in Algebra 2 or have completed Algebra 2. This course is intended to provide students with experiences in using computer programming techniques and skills to solve problems that can be set up as mathematical models. The Computer Math credit is an elective area credit which may only count as a math credit towards a standard diploma if the student is a CTE completer. This course may not count as a math elective towards an Advanced Diploma.

Geometry (3143) SOL COURSE

Prerequisite: Algebra 1

Credit: 1.0 GPA: 4.0 **NCAA**

Geometry deals with the Euclidean geometry of points, lines and planes. Emphasis is placed on deductive reasoning and algebraic problem-solving skills through the study of geometric theorems and proofs. Arithmetic and algebraic skills are required. This course includes a study of coordinate and transformational geometry and trigonometry of right triangles.

AFDA (3134)

Prerequisite: Algebra 1; Freshmen are not eligible to take this course (only grades 10-12)

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for students who have completed the standards for Algebra 1. The content covered includes select key topics from Algebra 1 (solving linear equations and inequalities, analyzing linear functions, solving systems of linear equations and inequalities, factoring quadratics, solving quadratic equations, analyzing quadratic functions, and regression of linear and quadratic data sets) that are expanded to include the Algebra 2 standards. In addition, students are introduced to several functions that are further explored in Algebra 2 (radical, rational, exponential, and logarithmic functions).

Algebra 2 (3135) SOL COURSE

Prerequisite: Algebra 1; It is recommended that a student complete Geometry prior to enrolling in Algebra 2.

Credit: 1.0 GPA: 4.0 **NCAA**

Algebra 2 is designed to be an extension and a reinforcement of Algebra 1. New concepts that broaden algebraic reasoning are introduced. Topics include the study of quadratic equations, radical and rational expressions and equations, transformations, graph analysis, logarithms, arithmetic and geometric sequences and series, polynomials, and statistics.

Algebra 2: SHS pre-IB (3135IB) *SOL COURSE*

Prerequisite: Algebra 1; An "A" in Algebra 1 and completion of Geometry is strongly recommended.

Credit: 1.0 GPA: 4.5 **NCAA**

Algebra 2: SHS pre-IB presents an in-depth study of topics of algebra in preparation for the IB/AP program. Topics include the study of quadratic equations, and systems, transformations (particularly absolute value graphs and exponential functions), logarithms, arithmetic and geometric sequences and series, polynomials, and statistics. This course is not a replacement for trigonometry or precalculus. It is not intended that a student who completes this course is immediately prepared to enter calculus.

Trigonometry: SHS pre-IB (3150)

Prerequisite: Algebra 2 or Algebra 2: SHS Pre-IB

Credit: 1.0 GPA: 4.5 **NCAA**

This course builds on the topics covered in Algebra 2. It covers determining the domain of, performing operations with, transformational graphing and symmetry of, and finding inverses of functions, including polynomial, exponential, and logarithmic. It also provides a thorough treatment of trigonometry. Topics studied include trigonometry of right and oblique triangles, The Unit Circle, graphs of trigonometric functions, inverse trigonometric functions, and trigonometric identities and equations.

IB Math SL 1: Precalculus (3162)

Prerequisite: An "A" in Algebra 2 or in Algebra 2: SHS pre-IB is strongly recommended

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This course serves as a springboard to a range of higher-level courses including Elements of Calculus, AP Statistics, and IB Math SL 2. Topics covered include, but are not limited to, Algebra, Functions and Equations, Probability and Statistics, Circular Functions and Trigonometry.

AP Statistics (3192)

Prerequisite: Trigonometry: SHS pre-IB or IB Math SL 1: Precalculus

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

AP Statistics is equivalent to a one-semester, introductory, non-calculus-based college course in statistics, and covers major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are 4 topics in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Elements of Calc: SHS pre-IB (3199)

Prerequisite: Trigonometry SHS pre-IB or IB Math SL 1: Precalculus; A grade of "B" or better in either course is strongly recommended.

Credit: 1.0 GPA: 4.5 **NCAA VWCC**

This course familiarizes students with basic calculus concepts to prepare them for entry-level calculus courses in college. Without the pressures of IB and AP requirements, students will be given ample time to internalize fundamental topics. Calculus is a complex subject and this course will give students the confidence to pursue further mathematics in college. This course will review some of the important topics

from trigonometry and advanced algebra before covering the topics of limits, derivatives and their applications. This course may include some integration and application.

Liberal Arts Math: SHS pre-IB (3200IB)

Prerequisite: Geometry and Algebra 2; A grade of "C" or better in both classes is strongly recommended.

Credit: 1.0 GPA: 4.5 **NCAA**

Liberal Arts Math includes topics in Numbers and Algebra, Geometry and Trigonometry, Functions, Financial Mathematics, and Introductory Differential Calculus. This course prepares students for college algebra, IB Math Applications SL, or the math needed for a trade school.

IB Math Applications SL (3198IB)

Prerequisite: Liberal Arts Math or instructor approval

Credit: 1.0 GPA: 5.0 **NCAA**

IB Math Applications SL (formerly IB Math Studies SL) includes elementary statistical methods, descriptive statistics, estimation, hypothesis testing, linear regression, and categorical data analysis. Additional topics include counting methods, probability, applications and analysis of functions, mathematical models, geometry, trigonometry, and an introduction to calculus. Students will complete an Internal Assessment and are encouraged to take the IB Mathematics: Applications & Interpretation SL Exam.

IB Math SL 2: Analysis & Approaches (3177IBA)

Prerequisite: IB Math SL 1: Precalculus

Credit: 1.0 GPA: 5.0 **NCAA**

This course extends the study of concepts introduced in IB Math SL 1. Students will study the theory and application of probability and random variables, and both descriptive and inferential statistics. This course also includes the study of differential and integral calculus of functions of a single variable with applications. Students will complete an Internal Assessment and are encouraged to take the IB Mathematics: Analysis & Approaches SL examination.

AP Calculus BC (3178)

Prerequisite: IB Math SL 2

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in IB Math SL 2 to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

Performing Arts

Choral Music

Concert Choir (9285)

Prerequisite: Open to all students with interest in singing choral music

Credit: 1.0 GPA: 4.0

This course is open to students in all grades. Correct singing and good musicianship are stressed. Development of musical skills and understanding are emphasized. **This is a performance-based class. After school rehearsals and performances are required unless released by director.**

Vocal Ensemble (9280VE)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

This choir is an intermediate level, auditioned ensemble. Repertoire will be challenging and prior experience in other choral ensembles is recommended but not required. The following fundamentals of good choral singing will be further developed: musical literacy, healthy tone production, and musicianship. **This is a performance-based class. After school rehearsals and performances are required unless released by director.**

Chorale (9289)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

This chorus requires the highest degree of performance from every member and further develops individual vocal skills and musical understanding. Previous training in one of the other choral ensembles is helpful but not necessary. Emphasis is placed on individual vocal production, sight-reading, music fundamentals and vocal techniques. **This is a performance-based class. After-school rehearsals and performances are required unless released by director.**

Salem Singers (9280SS)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

This select small choral ensemble focuses on small choral ensemble literature and technique, such as *a capella* madrigals, vocal jazz and advanced contemporary commercial music. This course requires a high degree of performance from each member and further develops individual vocal and ensemble skills as well as execution of choreography. Previous or concurrent training in Chorale is recommended. Emphasis is placed on a variety of vocal techniques consistent with the styles of literature, a capella singing, sight-reading, ear training and vocal improvisation. **This is a performance-based class. After-school rehearsals and performances are required unless released by director.**

Instrumental Music

Marching Band (9296)

Co-requisite for Instrumentalists: Enrollment in an additional band class or instructor permission.

Prerequisite for Auxiliaries: Audition/instructor permission.

Credit: 0.5 GPA: 4.0

This award-winning organization performs at SHS football games, parades in the community, and at contests with other high school bands. An audition is required. At times the contests require the band to travel out of state on overnight trips. **There is a financial commitment required to be a member.** Marching band begins rehearsals in late July/early August (depending on the school calendar). Students typically rehearse 4 days a week before school begins and attend band camp for 1 week out of town. During the first semester, the band rehearses 2 days a week after school. Students who play the piano can perform with the band on keyboard instruments. Membership in the organization is voluntary; however, participation in a band class is required unless excused by the Director. There will be open tryouts for students wishing to participate exclusively in auxiliary units (flags, rifles, sabres, dance, etc.) Members of the Auxiliary do not have to be enrolled in a band class.

This is a performance-based class, and all rehearsals rehearsals and performances are required unless excused in advance by the Director.

Concert Band (9233)

Prerequisite: Open to all students, **but must have instrumental experience**

Credit: 1.0 GPA: 4.0

This course is primarily for entry-level students who would like to improve their instrumental skills. Emphasis is on group instruction, and private practice by the student. Students who progress at a rapid rate may be selected to perform with the Symphonic Band. **This is a performance-based class, and after school rehearsals and performances are required unless released by director.**

Percussion Ensemble (9250)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

The percussion ensemble provides an opportunity for students to perform music written for that particular instrumentation. In addition to that body of literature, transcriptions of large orchestral works and smaller chamber ensembles are often included in the programming for the semester, allowing percussionists the opportunity to participate in the performance of music that does not require percussion, but that would be a valuable vehicle in the development of the student's musical awareness of form, style, interpretation.

Symphonic Band (9298)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

Students in this group already read music and want to improve their instrumental skills. Emphasis is placed on learning to perform with a group of musicians at a higher level. **This is a performance-based class, and after school rehearsals and performances are required unless released by director.**

Jazz Band (9297)

Prerequisite: Audition

Credit: 1.0 GPA: 4.0

This advanced music ensemble allows students to perform jazz music. This course requires the highest degree of performance from members, and further develops instrumental skills and techniques. Emphasis is placed on improvisation, sight-reading, and ensemble playing. Students have numerous opportunities to perform publicly. **This is a performance-based class. After school rehearsals and performances are required unless released by director.**

IB Music Parts 1 & 2 SL (9226IB & 9228IB)

Prerequisite: Music Instructor Permission; Grade 11 or 12;

Based on music theory and writing sample required for approval.

Credit: 0.5 GPA: 5.0

These serve as a sixth subject alternative for the IB Diploma Candidate or as an IB Certificate. An in-depth study of music theory is a major part of the class, along with a study of musical styles—both historical and worldwid. This gives the student an opportunity to explore and enjoy the diversity of music throughout the world. Students have the option (at the SL level only) of choosing between compositions, solo performance, and group performance as their primary focus. In addition, a music investigation into the relationship between two identifiable and distinct musical genres must be completed during IB Music 2. IB Music 2 requires the completion of IB Music 1.

This class meets before school twice a week or online.

Theatre

Drama 1 (1410)

Prerequisite: None

Credit: 1.0 GPA: 4.0

This teaches basic theater arts skills. Improvisation, acting, theater history, and technical theater are a few of the units covered in the course. Any student enrolling in Drama 1 must expect to participate actively on a daily basis.

Drama 2, 3: (1420, 1430)

Prerequisite: Drama 1 and audition

Credit: 1.0 GPA: 4.0

This class continues the study of theater crafts with emphasis on acting, direction, lighting, set construction, and scene design. The course includes the reading, analyzing, and studying of plays. The class performs for an audience and may attend local theater productions. Audition is required.

IB Theatre (1440IB)

Prerequisite: Drama 2 and audition required

Credit: 1.0 GPA: 5.0 **NCAA**

This is an intensive course of study emphasizing research and analysis as it applies to theatrical production. Students read and analyze plays as an actor, director, and designer. Students also research historical and stylistic movements and their effects on the development of theater. Students are required to perform in an original play, present an oral analysis of a play, and participate in productions. (Students are not guaranteed a role.) Audition is required.

Science

Earth Science (4210) SOL COURSE

Prerequisite: None

Credit: 1.0 GPA: 4.0 **NCAA**

Earth Science is a content based course designed to develop an understanding of the interrelationships between meteorology, geology, oceanography, and astronomy. Hands-on activities and visual aides provide emphasis and interpret the continual changes of the earth. Key topics include Virginia's geologic development, natural resources, and the Earth's composition, structure, history, and total environment.

Biology (4310) SOL COURSE

Prerequisite: Earth Science or Grade 10

Credit: 1.0 GPA: 4.0 **NCAA**

Biology provides a detailed understanding of living systems. Emphasis is on laboratory activities with controlled experiments and dissection. Key topics include biochemical life processes, cellular organization, classification, genetics, evolution, and ecology. It presents the fundamentals of science stressing the importance of scientific research and the application of scientific concepts to everyday life.

Chemistry (4410) SOL COURSE

Prerequisite: Grade 11 or 12; Algebra 1, Earth Science, and Biology. A strong math background because Chemistry is a math oriented course.

Credit: 1.0 GPA: 4.0 **NCAA**

Chemistry is a very math-intensive course. This college preparatory course provides an introduction to the concepts of chemistry necessary to study chemistry at the college or nursing school level. Students interested in attending college at a four-year or two-year university should take this course. Units of study include: theories and mathematical concepts of matter, physical/chemical changes, the mole concept of equations and related mathematical problems, the periodic table, atomic/molecular structures, and a brief introduction to organic and nuclear chemistries, solutions, and acids/bases.

Chemistry: SHS pre-IB (4410IB) SOL COURSE

Prerequisite: Algebra 1; A grade of "A" in Algebra 1 and an Algebra 1 Passed Advanced SOL scores are strongly recommended.

Credit: 1.0 GPA: 4.5 **NCAA**

Chemistry SHS-PreIB is a rigorous math-intensive course. Students will be required to be independently motivated and use advanced mathematical calculations and analytical reasoning. This accelerated course is for students preparing to take IB science courses during their Junior and Senior years or for Juniors seeking a more rigorous Chemistry experience. There is a significant concentration on laboratory work and writing formal laboratory reports. Topics of study include: atomic structure and its influence on the properties of matter, investigating molar relationships and energy in chemical reactions, behavior of solutions, and organic chemistry.

Anatomy and Physiology (4330)

Prerequisite: Grade 12; IB Biology 1 or Biology

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for students in twelfth grade who are interested in advanced science, nursing, pharmacy, or other medically related fields. Basic chemistry of the body, cells and tissues, and the nine systems of the vertebrate animal are studied. Special emphasis is placed on exploring mammalian structure through dissection.

Physics: SHS pre-IB (4510)

Prerequisite: Completed or enrolled in Algebra 2, Chemistry; Strongly recommended that students are currently in a math class.

Credit: 1.0 GPA: 4.5 **NCAA**

A first-year Physics course which covers the topics of one and two-dimensional motion, energy conservation, gravitational and circular motion, electricity and magnetism, momentum, and fluid dynamics. This requires students to use mathematical reasoning and experimental skills to solve problems. Students who expect to study engineering, medicine, or any science discipline are advised to enroll.

Physical Science 2 - Physics (4610a)

Prerequisite: Grade 11 or 12; Earth Science & Biology; Must also take Part B for a Science graduation credit

Credit: 0.5 GPA: 4.0 **NCAA**

This introductory course is designed to expose students to the fundamental elements of physics and increase students' understanding of basic math as it applies to the physical world. Students will acquire skills on how to interpret graphs and diagrams, focusing attention on their ability to extract meaningful data. Emphasis is on hands-on activities and controlled laboratory experiments that explore scientific measurements, motion, kinematics, forces, Newton's Laws, gravity, momentum, work and energy, and fluid mechanics.

Physical Science 2 - Chemistry (4610b)

Prerequisite: Grade 11 or 12; Earth Science & Biology;

Must also take Part A for a Science graduation credit

Credit: 0.5 GPA: 4.0 **NCAA**

This laboratory-based course is designed to facilitate the transition to Chemistry (4410) as it provides a framework for exploring the underlying principles of matter. Major areas include investigating the properties of matter, the classification of matter, and the historical models of matter, examining the atomic structure, distinguishing between physical and chemical changes, exploring the design of the periodic table, and as well as a brief introduction to the basics of chemical reactions. Students will investigate topics through hands-on activities and experimentation.

Environmental Science (4611)

Prerequisite: Grade 11 or 12; Earth Science or Biology

Credit: 1.0 GPA: 4.0 **NCAA**

Environmental Science covers the following areas: biodiversity, population studies, pollution, natural resources, ecosystems and biomes, atmosphere and climate change, and food and agriculture. Students will investigate these areas through projects, lab work, and discussions.

IB Biology 1 (4380IB) SOL COURSE

Prerequisite: Grade 11 or 12; Successful completion of Chemistry

Credit: 1.0 GPA: 5.0 **NCAA**

This is the first year of a two-year course that will fulfill the science requirement for the IB diploma at the higher level and prepare students for the IB Biology test at the end of year two. This course may be taken by seniors as an advanced Biology course. This fast paced course applies knowledge from previous science courses with critical thinking skills and laboratory skills to study a variety of biological topics. Topics include cellular and molecular biology, genetics, ecology, evolution, classification and human anatomy and physiology. An emphasis will be placed on the development of laboratory, data collection, analysis, and graphing skills. This course is recommended for students interested in pursuing a career in the life sciences. Test and laboratory assessments will focus on experimental design, communication, analysis and application of content knowledge.

IB Biology 2 (4390IB)

Prerequisite: Grade 12; IB Biology 1; A grade of "B" or better in IB Biology 1 is strongly recommended.

Credit: 1.0 GPA: 5.0 **NCAA VWCC**

This is the 2nd year of a two-year course that will fulfill the science requirement for the IB diploma at the higher level and prepare students for the IB Biology test. This fast paced course applies knowledge from previous science courses with critical thinking skills and laboratory skills to study a variety of biological topics. Topics include metabolism, plants, genetics, evolution, animal anatomy and physiology, ecology and conservation and an in-depth review the IB Biology 1 course. Students will complete an internal assessment lab and contribute to the IB Sciences 10-hour project. An emphasis will be placed on the development of laboratory, data collection, analysis, and graphing skills. This course is recommended for students interested in pursuing a career in the life sciences. Test and laboratory assessments will focus on experimental design, communication, analysis and application of content knowledge.

IB Chemistry (4480IB)

Prerequisite: Chemistry; A grade of "B" or better in Chemistry pre-IB is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

This IB course applies an advanced approach to studying chemistry. Students will explore core chemical concepts in depth while looking into the application of chemistry in the world around us. This course is designed to meet the needs of the sixth subject or the IB Diploma science requirement. Students will be required to do a group project related to the study of science. This course is also recommended for students interested in pursuing a career in the applied sciences.

IB Physics SL (4580IB)

Prerequisite: Physics; A grade of "B" or better in Physics is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

A second year physics course which provides a more advanced study of newtonian mechanics, electricity and magnetism, and covers new topics not studied in the pre-IB

Physics course, including waves, thermodynamics, particle physics, and alternate energy sources. This laboratory course fulfills science requirements for the IB Diploma at the standard level. Students earning credit toward the diploma will take the IB Physics SL exam and complete an internal assessment (IA) project in a desired physics topic of their choice.

AP Environmental Science (4270)

Prerequisite: Biology, Chemistry

Credit: 1.0 GPA: 5.0 **NCAA**

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The AP Environmental Science exam will be given in May.

Special Education

All special education students and their parents or guardians participate in developing an individualized educational program (IEP) of studies.

Education for Work

EFW (1 or .5 credit) (0960 or 0960B)

EFW Co-op (1 or 2 credit) (0963) (0962)

Prerequisite: Special Education Students in Grades 10-12
Credit: 1.0 (or 0.5) GPA: 4.0

This is recommended for those students preparing for the world of work following high school. Instruction will include: reasons people work, interests, aptitudes and skills, job selection, locating employers and career exploration, planning and decision making. Students will have the opportunity to complete simulation activities, interest and aptitude inventories as well as regular textbook practices. Class activities will include lecture/demonstration, group process, individual projects and guest lectures and field trips as appropriate. The EFW Co-op is a course that facilitates movement or transition toward increased integration of students with disabilities into both in-school and community-based on-the-job training experiences. Instructional priorities for each student are based on real world needs and lead toward increased independence and autonomy in his or her home and community. The focus of the course is meaningful, functional, and age appropriate in the school and community environment, using naturally-occurring materials and situations. Instruction is developed and driven by individual strengths and needs, using consistent teaching strategies as well as accommodations designed to enhance the student's participation in typical life activities.

Resource (0971-Sem 1; 0970-Sem 2)

Prerequisite: Special Education Students in Grades 9-12
Credit: 0.0 GPA: none

This class is designed for students requiring additional academic support beyond the regular classroom. Focus is

given to developing learning and study strategies. Students will be expected to define compensatory skills to facilitate active learning in the regular classroom setting. Class activities will include but not be limited to time management, goal setting, problem solving and assignment analysis.

Supplemental English Skills

(S0908A - 1st Sem; S0908B - 2nd Sem)

Prerequisite: Determined by Case Manager through IEP
Credit: 0.5 GPA: 4.0

This semester course supports instruction to prepare students for the writing and reading SOLs. Students receive individualized instruction to reinforce and strengthen language arts skills in addition with supporting their English class assignments.

Supplemental Math Skills

(S0909A - 1st Sem; S0909B - 2nd Sem)

Prerequisite: Determined by Case Manager through IEP
Credit: 0.5 GPA: 4.0

Students receive both group and individualized instruction in this semester course designed to improve skills and processes necessary for the Algebra 1 and Geometry SOLs. This course also supports classroom instruction for both Algebra 1 and Geometry.

Life Skills (S0161 or S0161B)

Prerequisite: Determined by Case Manager through IEP
Credit: 1.0 (0.5) GPA: 4.0

This course is designed for special education students who are learning skills necessary for everyday living. It stresses accepting responsibility, both in the home and in the community. It develops skills in the areas of self-care, care of the home, and in preparing nutritious meals. Class activities include lecture-demonstration, labs, and individual projects. Community Based Activities will be explored in the area of appropriate leisure activities, emphasizing appropriate social and safety skills.

Interpersonal Relations (7892 A or B)

Prerequisite: Determined by Case Manager through IEP
Credit: 0.5 GPA: 4.0

This course is designed to increase students' understanding of social skills and interpersonal relations. Students will be directly instructed in social skills topics related to their areas of need. Some areas may include: initiating conversations, maintaining conversations, taking turns to speak, nonverbal expressions, nonverbal actions, sarcasm, voice tone and volume, and other topics related to what skills the students are lacking or those skills needing improvement. The course is recommended for students with disabilities that need instruction in appropriate social skills. Students should be referred to the course by case managers.

Consumer Mathematics (S0317)

Prerequisite: Recommended for Grade 11, 12
Credit: 1.0 GPA: 4.0

This course is designed to increase students' understanding and applications of basic consumer skills that will help prepare them for making wise decisions during "life after graduation." It includes the study of personal income and

banking, purchasing food and clothing, renting or buying a place to live, the purchase and maintenance of a car including insurance and taxes. Also included are the applications of ratios, proportions, percents and the mathematics of budgeting personal income. This course is recommended for juniors and seniors as a final math course.

Health (S0140)

Prerequisite: None

Credit: 0.5 GPA: 4.0

The Adaptive Health and Safety course is a semester course for students in grades 9 -12. The course provides students with the skills needed to make decisions that will affect their lives today and in the future. Topics include personal hygiene, proper nutrition, decision-making, sexuality, and First Aid/CPR.

Adaptive Music (S9296)

Prerequisite: None

Credit: 0.5 GPA: 4.0

In this class, students will be introduced to the basic fundamentals of music. Topics covered will include: basic music theory, rhythm practice, and music history. Students will also be introduced to a variety of musical instruments, and have opportunities to play percussion instruments collaboratively.

Technology Education

Basic Technical Drawing (8435)

Prerequisite: None

Credit: 1.0 GPA: 4.0

This course is the first in a series of engineering courses explaining the fundamentals of drafting. Students discover and develop their talents in basic drafting with respect to industrial processes. Experience will be gained with all drawing tools and equipment with extensive use of computer-aided drafting.

Engineering Drawing (8436)

Prerequisite: Basic Technical Drawing

Credit: 1.0 GPA: 4.0

Engineering Drawing is a continuation of Basic Technical Drawing with emphasis on mechanical engineering. Students experience in greater depth the skills and techniques of mechanical engineering in a laboratory-oriented course. Typical engineering design problems will be stressed and explored. There will be advanced assignments and applications in computer-aided design.

Architectural Drawing (8437)

Prerequisite: Basic Technical Drawing

Credit: 1.0 GPA: 4.0

Architectural Drawing emphasizes designing a home of the student's choice and making a complete set of plans for that home. The student will draw floor plans; electrical plans; exterior elevations; detail drawing of walls, stairs, fireplaces, and other illustrations of the house. Advanced

applications in computer-aided design will be stressed heavily. This course provides information helpful to the future homeowner, homebuilder, interior designer, interior decorator, or future architect.

Robotics (8421)

Prerequisite: None

Credit: 1.0 GPA: 4.0

Students will engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities would challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing, and design and control of electromechanical devices.

Mechatronics (8425)

Prerequisite: Robotics or Instructor Approval

Credit: 1.0 GPA: 4.0

This course provides an orientation to careers in various field of manufacturing. Mechatronics is a blend of mechanical engineering, electrical engineering, computer control and information technology. This class will allow students to experience many fields of engineering. Emphasis will be placed on robotics and automated manufacturing production processes.

Robotics 2 (Internship) (8403)

Prerequisite: Robotics, Mechatronics; Instructor Permission; 11-12 grade

Credit: 1.0 GPA: 4.0

Students will expand their understanding and knowledge of robotics by serving as interns/student leaders in the Robotics 1 classes and by working on specialized projects.

Trades & Industrial Education

Intro to Collision Repair (9072)

Prerequisite: None

Credit: 0.5 GPA: 4.0

In the global automotive repair industry, there is a growing demand for qualified auto body technicians. In this course, students are introduced to the fundamentals of non-structural analysis, damage repair, basic refinishing skills, and welding. Students work with a variety of materials, using metal finishing and body filling techniques to prepare surfaces and repair panels. In addition, students will learn current industry safety practices, hazardous material practices, and gain valuable career skills. Students who successfully complete this course will be prepared for Auto Body/Collision Repair Technology.

Auto Body 1 (8676)

Prerequisite: Grades 10-12; Intro to Automotive Service, Intro to Collision Repair, and/or Welding Exploratory Recommended

Credit: 1.0 GPA: 4.0

Auto Body 1 is a one-period year course designed to train students for entry level employment in the auto body service area. Students will receive training in all phases of restoring damaged vehicles. Auto Body 1 students may participate in local, state, and national Skills USA events. Skills USA Club membership is recommended. Acceptance in class may require submission of an application. **Senior non-completers may enroll on a space-available basis.**

Auto Body 2 (8677)

Prerequisite: Auto Body 1

Credit: 2.0 GPA: 4.0 **VWCC**

Auto Body 2 is a two-period block, yearlong course designed to advance students for employment in the auto body service area. Students will be trained on modern up-to-date equipment including a complete paint booth. Auto Body 2 students may participate in local, state, and national Skills USA events. Skills USA Club membership is recommended. Co-op is available for students who meet all of the requirements.

Auto Body 3 (8678A)

Prerequisite: Auto Body 2 and instructor permission

Credit: 2.0-3.0 GPA: 4.0

This course builds upon the skills learned in Auto Body 2.

Intro to Automotive Service (9071)

Prerequisite: None

Credit: 0.5 GPA: 4.0

This one semester course is available for all students. This automotive course includes both classroom and shop time. Topics covered are safety, tools, fluid level check, electrical system, lubrication system, fuel system, cooling system, climate control, ignition system, suspension, steering, tires, brakes, drivetrain, exhaust, emission system, alternative fuels, common problems and roadside emergencies.

Automotive Technology 1 (8506)

Prerequisite: Grades 10-12; Intro to Automotive Service, Intro to Collision Repair, and/or Welding Exploratory Recommended

Credit: 1.0 GPA: 4.0

In this course, students explore, handle, and perform basic functions in engine repair, automatic transmission and transaxle, manual drive train and axles, suspension and steering systems, and brakes as they prepare for the ASE (Automotive Service Excellence) certifications.

Automotive Technology 2 (8507)

Prerequisite: Grades 11-12; Automotive Technology 1 or Diesel Equipment Technology 1

Credit: 2.0 GPA: 4.0

In this course, students build upon their basic knowledge of automotive technology, exploring more advanced tasks in engine repair, automatic transmission and transaxle, manual drive train and axles, suspension and steering systems, and brakes. They also learn about electrical,

electronic, and HVAC systems in automobiles. Upon successful completion of the course, students will be eligible to take the Entry Level Automotive Service Excellence (ASE) Student Certification examinations. Students are encouraged to participate in SkillsUSA, our student organization. Students will be a part of the Spartan Automotive workplace simulation program where students work on customer vehicles in our shop.

Automotive Technology 3 (8508A)

Prerequisite: Automotive Technology 2 and instructor permission.

Credit: 2.0-3.0 GPA: 4.0

This course builds upon the skills learned in Automotive Technology 2.

Diesel Equipment Technology 1 (8613)

Prerequisite: Grades 10-12; Intro to Automotive Service, Intro to Collision Repair, and/or Welding Exploratory Recommended

Credit 1.0 GPA: 4.0

Students receive basic instruction in general maintenance of medium- and heavy-duty diesel trucks and equipment. They learn theory and operation of diesel engines, brakes, suspension and steering systems, and electrical/electronic systems. Students are instructed in heavy truck and equipment preventive maintenance and inspection procedures.

Diesel Equipment Technology 2 (8614)

Prerequisite: Grades 11-12; Diesel Equipment Tech 1

Credit 2.0 GPA: 4.0

Students receive basic instruction in diagnosis and adjustment of medium and heavy duty diesel trucks and equipment. They apply theory and maintain operation of diesel engines, brakes, suspension and steering systems, and electrical/electronic systems. Students are encouraged to participate in SkillsUSA, our student organization.

Diesel Equipment Technology 3 (8615)

Prerequisite: Grade 12; Diesel Equipment Tech 2 and instructor permission

Credit 2.0 GPA: 4.0

This course builds upon the skills learned in Diesel Equipment Technology 2.

Welding Exploratory (9070)

Prerequisite: None

Credit: 0.5 GPA: 4.0

Welding Exploratory is a semester course designed to introduce students to basic welding and cutting processes. Students will focus on the safe and proper use of SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), OFC (Oxy Fuel Cutting), PAC (Plasma Arc Cutting), and other power equipment needed in welding and fabrication.

Welding 1 (8672)

Prerequisite: Welding Exploratory recommended; Grade 10 or 11

Credit: 1.0 GPA: 4.0

Welding I is a one period year long course designed to teach the safe and proficient use of all welding equipment/processes in flat, horizontal, and vertical welding positions.

Additionally, students will fabricate and design welding projects using blueprints as a guide. Students are encouraged to participate in SkillsUSA.

Welding 2 (8673)

Prerequisite: Welding 1; Grade 11 or 12

Credit: 2.0 GPA: 4.0 **VWCC**

Welding 2 is a two period year long course. Students will focus on demonstrating mastery of SMAW (Shielded Metal Arc Welding) and GMAW (Gas Metal Arc Welding) by successfully passing welding qualifications in accordance with the American Welding Society D1.1 "Structural Steel Welding Code" during this course. Additionally, there will be an emphasis on fabrication and design with the expectation for students to participate in the Simulated Workplace Program.

Welding 3 (8674)

Prerequisite: Welding 2; Grade 12; instructor permission

Credit: 2.0 GPA: 4.0

This course builds upon the skills learned in Welding 2.

Precision Machining 1 (8539)

Prerequisite: none

Credit: 1.0 GPA: 4.0

This class will take place off campus with VWCC and will require travel time. The demand for precision machinists is growing along with the resurgence of the U.S. manufacturing industry. Machinists are highly skilled, creative problem solvers who are task-oriented and self-directed individuals. In this first course, students are taught safety awareness and the foundations of machining, including how to accurately apply measurements, use engineering drawings and sketches, and apply metalworking theory in order to efficiently plan, manage, and perform general machine maintenance and machining jobs. Credentials: OSHA 10 General Industry, NIMS Level 1-Measurement, Materials & Safety; Job Planning, Benchwork & Layout; Drill Press Skills; Manual Milling

Precision Machining 2 (8540)

Prerequisite: Precision Machining 1

Credit: 2.0 GPA: 4.0

This class will take place off campus with VWCC and will require travel time and builds upon the skills learned in Precision Machining 1.

Cosmetology I (8527)

Prerequisite: none

Credit: 2.0 GPA: 4.0

In this introductory course, students study hair, skin, and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using manikins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, and sanitation and disinfection of equipment and facilities. Students develop skills in shampooing and conditioning hair, as well as styling and cutting hair. They are introduced to chemical texture services and develop skills in manicure and pedicure procedures. Cosmetology students must satisfy a minimum of 840 hours of instruction in a three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology

licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Cosmetology 2 (8528)

Prerequisite: none

Credit: 2.0 GPA: 4.0

In this continuing course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to permanent waves, relaxers, lightening, and coloring hair. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. Students will be introduced to a business management unit with a focus on managing the salon. Cosmetology students must satisfy a minimum of 840 hours of instruction in a three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Cosmetology 3 (8529)

Prerequisite: none

Credit: 2.0 GPA: 4.0

This course builds upon the skills learned in Cosmetology 2, and upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

T & I Co-op (8508B, 8678B, 8674B))

Prerequisite: Grade 12; Must be in Automotive Technology 3, Auto Body 3, or Welding 3; Instructor Permission is Required

Credit 1.0 GPA: 4.0

The T&I Co-op allows students in the 3rd year of a trades class to earn additional credit and gain valuable work experience by working in the Automotive, Collision Repair, or Welding Industries. Students must have a minimum of 396 hours of continuous, supervised, on-the-job training during the school year in an instructor approved business.

Note: Students requesting Co-op will have a study hall and will NOT be released early from school until they have an approved and verified job and have turned in all necessary Co-op paperwork. Additionally, Unsatisfactory progress in their trades class will result in removal from the Co-op privilege, and if any student enrolled in the T&I Co-op loses or quits the approved job, the student will return to a study hall and will NOT be allowed to leave school early.

Heavy Equipment Operator 1 (8616)

Prerequisite: none

Credit: 1.0 GPA: 4.0

This class will take place off campus with VWCC and will require travel time. Experience what it is like to operate a bulldozer and excavator in our high-tech Caterpillar Simulators! You will learn a range of skills from safety, hand tools, small power tools, to heavy equipment safety, and then to operational techniques, introduction to earth

moving, and interpreting civil drawings. With online learning plus 44 hours in the seat of a state of the art CAT simulator that replicates real-life operating scenarios through rotation-motion platforms and high resolution 3-D displays. Earn the Heavy Equipment Operator Level 1 credential! Guaranteed interviews with participating local employers: Branch Civil, Joe Bandy & Son, Jack St. Clair, Roanoke City, Rockydale Quarries, and WVA Water Authority
Note: - You must be 18 years of age by the summer after you complete the class.

Pharmacy Technician (8305)

Prerequisite: none
 Credit: 1.0 GPA: 4.0

This class will take place off campus with VWCC and will require travel time. Pharmacy Techs play a vital role in hospitals, health systems, and community pharmacies by supporting pharmacists in providing safe and effective patient care. Pharmacy technicians communicate with diverse audiences, perform data entry with various software programs, problem solve while working in a busy environment, and maintain professionalism while providing quality patient care. This program is a hybrid offering, meaning that some work will be online and some in-person labs. At the end of the course, you will apply for the national Pharmacy Technician Certification Exam (PTCE) to become a Certified Pharmacy Technician (CPhT).

World Languages

Students requesting a 1st year World Language also MUST make an alternate language choice.

Chinese

Chinese 1 (5210)

Prerequisite: A grade of "C" or better in current English and Math class is strongly recommended
 Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed to introduce the student to the Chinese language and culture using everyday Chinese vocabulary. The student will develop novice level interpersonal, interpretive, and presentational modes of communication and will be able to describe self and family members.

Chinese 2 (5220)

Prerequisite: Chinese 1; A grade of "C" or better in Chinese 1 is strongly recommended
 Credit: 1.0 GPA: 4.0 **NCAA**

This course further develops the interpersonal, interpretive, and presentational modes of communication at the novice high and intermediate low levels. Students will express information about others and their community. Vocabulary building is stressed and accomplished through numerous

listening, reading, writing, and speaking activities. Students will learn about customs and traditions of Chinese culture.

Chinese 3 (5230)

Prerequisite: Chinese 2; A grade of "C" or better in Chinese 2 is strongly recommended
 Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for the serious language learner who has excelled in Chinese 1 & Chinese 2 and desires to develop interpersonal, interpretive, and presentational modes of communication at the Intermediate level. Students will express information about their community and world while learning about Chinese history and culture. Emphasis is placed on responding to and communicating practical needs and expressing opinions. The course fulfills the requirement for the advanced studies diploma as well as prepares students for the next level of the International Baccalaureate course of study.

IB Chinese 1 (5840IB)

Prerequisite: Chinese 3; A grade of "B" or better in Chinese 3 is strongly recommended. **Grade 11 or 12**
 Credit: 1.0 GPA: 5.0 **NCAA**

This course begins to prepare the student for the IB exam and / or college placement exams. Students will develop the ability to effectively communicate in the three modes of communication.

IB Chinese 2 (5852IB)

Prerequisite: IB Chinese 1; A grade of "B" or better in IB Chinese 1 is strongly recommended. **Grade 11 or 12**
 Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student to take the IB Chinese examination at the standard level and / or continues to build proficiency for college placement exams and life skills. Students will develop the ability to effectively communicate in all three modes. Students will have the opportunity to reach a high degree of competence in Chinese and explore the culture using the language.

English Learners

Newcomer EL (5710EL)

Prerequisite: None
 Credit: 1.0 GPA: 4.0 **NCAA**

An introduction to high frequency social language and basic American cultural practices for newly arrived English Learners. Students will participate in daily drills (phonetic alphabet, calendar, counting, vocabulary recall). Students will access a curriculum of social and survival English language through core language skills practice: reading, writing, listening, and speaking activities. The course includes orientation to basic aspects of American lifestyle: holidays, foods, geography, signage, telephone and email, transportation and driving, the education system. This one year course is appropriate for students at WIDA levels up to 2.0 overall.

EL Resource (1515)

Prerequisite:

Credit: 1.0 GPA: 4.0 **NCAA**

Instructional support for literacy development and core content studies for English Learners at all levels of language acquisition. Students will participate in guided reading, that is small group and leveled literacy instruction. More, students will receive support with core content work. The EL instructor will help with the organization and rehearsal of students' general coursework, infusing language skills practice into core content discussions. The instructor will use this resource period to guide students' development of executive functioning skills. Finally, the instructor will use the course as a platform for assessing overall student wellbeing and arranging additional advocacy or intervention as necessary.

French

French 1 (5110)

Prerequisite: A grade of "C" or better in current English and Math class is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed to introduce the student to the French language using everyday French vocabulary. The student will develop novice level interpersonal, interpretive, and presentational modes of communication and will be able to describe self and family members. The geography and the culture of France and other French speaking countries are also introduced.

French 2 (5120)

Prerequisite: French 1; A grade of "C" or better in French 1 is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

French 2 further develops the skills of listening, speaking, reading and writing in the language. A more formal study of grammar and vocabulary building is stressed and accomplished through drills, readings, and written original paragraphs. Cultural awareness development continues.

French 3 (5130)

Prerequisite: French 2; A grade of "C" or better in French 2 is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for the serious language student who has excelled in Levels 1 and 2. It offers an in-depth study of grammar and vocabulary which provide the means for student expression in spoken and written form. Emphasis is placed on the student's ability to respond to and communicate practical needs and opinions and to extract information from different texts. Daily class participation in the language is expected. The course fulfills the requirement for the advanced studies diploma as well as preparing students for the next two levels of the International Baccalaureate course of study.

IB French 1 (5142IB)

Prerequisite: French 3; A grade of "B" or better in French 3 is strongly recommended. Grade 11 or 12

Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student for the final year of IB study. Students will develop the ability to effectively communicate orally, through writing, and in response to spoken language. Students will have the opportunity to reach a high degree of competence in French and explore the cultures using the language.

IB French 2 (5152IB)

Prerequisite: French 4; A grade of "B" or better in French 4 is strongly recommended. Grade 11 or 12

Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student to take the IB French examination at the standard level. Students will develop the ability to effectively communicate orally, through writing, and in response to spoken language. Students will have the opportunity to reach a high degree of competence in French and explore the cultures using the language.

German

German 1 (5210)

Prerequisite: A grade of "C" or better in current English and Math class is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed to introduce the student to the German language and culture using everyday German vocabulary. The student will develop novice level interpersonal, interpretive, and presentational modes of communication and will be able to describe self and family members

German 2 (5220)

Prerequisite: German 1; A grade of "C" or better in German 1 is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course further develops the interpersonal, interpretive, and presentational modes of communication at the novice high and intermediate low levels. Students will express information about others and their community. Vocabulary building is stressed and accomplished through numerous listening, reading, writing, and speaking activities. Students will learn about customs and traditions in various German speaking countries.

German 3 (5230)

Prerequisite: German 2; A grade of "C" or better in German 2 is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for the serious language learner who has excelled in German 1 & 2 and desires to develop interpersonal, interpretive, and presentational modes of communication at the intermediate level. Students will express information about their community and world while learning about history and culture of German speaking countries. Emphasis is placed on responding to and communicating practical needs and expressing opinions. The

course fulfills the requirement for the advanced studies diploma as well as prepares students for the next level of the International Baccalaureate course of study.

IB German 1 (5242IB)

Prerequisite: German 3; A grade of "B" or better in German 3 is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student for the final year of IB study. Oral presentations, text handling, portfolio preparation, advanced grammar, and the development of listening comprehension and speaking skills are emphasized. Summer work is required.

IB German 2 (5252IB)

Prerequisite: German 4; A grade of "B" or better in German 4 is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student to take the IB German examination at the standard level. Students will develop the ability to effectively communicate orally, through writing, and in response to spoken language. Students will have the opportunity to reach a high degree of competence in German and explore the cultures using the language. Summer work is required.

Spanish

Spanish 1 (5510)

Prerequisite: A grade of "C" or better in current English and Math class is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed to introduce the student to the Spanish language and culture using everyday Spanish vocabulary. The student will develop novice level interpersonal, interpretive, and presentational modes of communication and will be able to describe self and family members.

Spanish 2 (5520)

Prerequisite: Spanish 1; A grade of "C" or better in Spanish 1 is strongly recommended.

Credit: 1.0 GPA: 4.0 **NCAA**

This course further develops the interpersonal, interpretive, and presentational modes of communication at the novice high and intermediate low levels. Students will express information about others and their community. Vocabulary building is stressed and accomplished through numerous listening, reading, writing, and speaking activities. Students will learn about customs and traditions in various Spanish speaking countries.

Spanish 3 (5530)

Prerequisite: Spanish 2; A grade of "C" or better in Spanish 2 is strongly recommended

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed for the serious language learner who has excelled in Spanish 1 & 2 and desires to develop interpersonal, interpretive, and presentational modes of communication at the intermediate level. Students will express information about their community and world while learning about history and culture of Spanish speaking

countries. Emphasis is placed on responding to and communicating practical needs and expressing opinions. The course fulfills the requirement for the advanced studies diploma as well as prepares students for the next level of the International Baccalaureate course of study.

IB Spanish 1 (5542IB)

Prerequisite: Spanish 3; A grade of "B" or better in Spanish 3 is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

This course begins to prepare the student for the IB exam and / or college placement exams. Students will develop the ability to effectively communicate in the three modes of communication.

IB Spanish 2 (5552IB)

Prerequisite: Spanish 4; A grade of "B" or better in Spanish 4 is strongly recommended. Grade 11 or 12.

Credit: 1.0 GPA: 5.0 **NCAA**

This course prepares the student to take the IB Spanish examination at the standard level. Students will develop the ability to effectively communicate orally, through writing, and in response to spoken language. Students will have the opportunity to reach a high degree of competence in Spanish and explore the cultures using the language.

Heritage Speakers (5540)

Prerequisite: None for heritage learners, Spanish IB-1 and teacher recommendation for non-heritage learners.

Credit: 1.0 GPA: 4.0 **NCAA**

This course is designed to strengthen the cultural and linguistic skills of Spanish heritage learners. Students will expand their bilingual skills, learn more about Spanish-speaking cultural heritages in the United States, and participate in a range of oral and written skills in the Spanish language.

PRACTICE COPY - SALEM HIGH REGISTRATION

Name: _____ Student #: _____ Year of Graduation: _____
Last First

Phone: _____ Current Grade: _____ Type of Diploma: _____

Requests	Credits	Counselor's Comments	
English:			
Math:			
Science:			
Social Studies:			
Health/PE:			
World Lang. (Req. for Adv. Diploma):			
Elective:			
Elective:			
Elective:		Alternate Electives	Credits
Elective:			
Elective:			
Elective:			
Totals			

1. Read through the registration guide carefully.
2. Fill out all requests and credits in spaces provided.
3. Choose alternate electives carefully.
4. Salem High strongly encourages ALL students to take AT LEAST six classes.
5. To participate in interscholastic sports programs, the Virginia High School League requires "Take 5-pass 5". Non-credit courses and previously passed courses, DO NOT count into this total.
6. Students who DO NOT meet the prerequisite will have their schedules adjusted during the summer.
7. By registering for a Pre-IB, IB, AP, College and Dual Enrolled course, the student and parent agree to abide by the "Commitment to Advanced Program of Study" as listed in the Registration Guide. Request for changes are to be made in-writing to the SHS Guidance Department by the last Friday in June.

Are You Interested in a Senior Pathway Project?

Senior Pathway Projects exist to provide select seniors with opportunities to have a highly personalized schedule that enables them to pursue their personal passions and/or explore possible career opportunities.

Enrollment in a Senior Pathway Project is open to students who:

- Have received prior approval from the instructor
- Will have achieved the status of Senior based on earning a minimum of 17 credits before the start of the school year;
- Have already successfully completed or will have successfully completed an appropriate number of courses/experiences within an Interest Pathway prior to the start of the school year; and

There are three distinct components to a Senior Pathway Project. Throughout the spring of the student's Junior year, the student will work with the instructor/mentor to develop a personalized plan for meeting all three components. That plan will receive final approval by the school administration.

Throughout the school year, the instructor will monitor progress toward completion of the plan. Insufficient progress toward completion may result in removal from enrollment in the Senior Pathway Project.

The student receives credit for the Senior Pathway Project and a grade of Pass or Fail.

Component 1: Independent Study

Under the instructor's supervision, the student will research a specific topic or series of topics. As part of the student's personalized plan, the student should outline a general series of topics to be researched and propose a means for presenting the results of the research. The results of the research will be compiled in a concise format that is approved by the instructor.

Component 2: Experiential Learning

As part of the Senior Pathway Project, the student will complete an internship within the school system and an externship in the community that enables the student to better understand how the Pathway topic connects to the world of work. As part of the student's personalized plan, the student will propose a plan for completing the internship and externship requirements. Instructors will help students create internship opportunities and find workplace-based externships, but ultimately the responsibility to set up a meaningful internship and externship experience is that of the student.

Component 3: Capstone Project

The student will complete a capstone project that demonstrates a broad understanding of the skills and content that make up the discipline or Interest Pathway. The Capstone Project should result in a tangible and/or visual product that can be shared with an audience.

What are Your Next Steps?

Talk with your school counselor about your interest in creating a Pathway Project.

VWCC Regional Academies

SHS students have the opportunity to participate in a variety of Career and Technical Programs at Virginia Western Community College for dual credit. Regional Academy programs and CTE Institutes are planned in the areas listed below. These half-day programs are designed for eleventh and twelfth grade students who have creative, capable minds and a strong interest in applied academics.

Students will be awarded 1 weighted credit for each semester of full time attendance at the academy. Full time attendance is defined as 8:00AM-10:45AM Monday through Friday. In the event that transportation is not provided by the Salem City School Division, transportation to and from the academy will be the responsibility of the parent/guardian. VWCC enrollment rates may apply. Please see your school counselor for more information.

Air Conditioning & Refrigeration

This curriculum is designed to meet the essential technical concepts and practices of the air conditioning and refrigeration field. Employment opportunities include air conditioning/refrigeration system installer, air conditioning system service technician, and air conditioning sales.

Engineering

The Engineering program is designed for creative students who want to explore engineering as a potential major. The intent of this program is to provide students a sense of what the engineering profession encompasses while exposing them to engineering concepts to better prepare them for success in engineering at the undergraduate level.

Mechatronics

The Mechatronics program combines the concepts and practices of mechanical and electrical processes in order to manipulate motorized, hydraulic, and pneumatic machines to perform complex automated functions in an industrial or advanced manufacturing environment. It is designed to prepare the student for the Siemens Mechatronics System certification. Student with this credential will function as a highly skilled technician who can work with modules and components in complex mechatronics systems as well as be able to assess and analyze the system as a whole.

Health Science Program

This curriculum is designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree in allied health programs such as nursing, health education or dietetics/nutrition.

Nurse Aide

Available to high school seniors only who want to earn their Certified Nursing Assistant (CNA) Certification.

Pre-Health

This is a one year program designed for seniors in high school. It's purpose is to prepare students to apply for Virginia Western's selective admissions health programs. This program includes courses that are typically found as pre-requisites to the application process.

Please see your school counselor for more information about these and other VWCC programs.

Advanced Studies Diploma Requirements

4 credits of English
4 credits of science
4 credits of history/social science
4 credits of math
3 or 2+2 of world language
2 health and 2 PE courses
Personal Finance/Economics

Students must also earn 5 Verified Credits—two in English, and one in math, science, and history/social science.

Have you read the Commitment to Advanced Programs of Study on Page 5?

The City of Salem Schools does not unlawfully discriminate on the basis of race, color, national origin, disability, gender or age in employment or in its educational programs and activities.



Since 1993, nearly 200 Salem High School students have earned the prestigious International Baccalaureate Diploma. Over 1000 students have earned International Baccalaureate Certificates in individual courses.

Todd Gleeson
Henry Tien
Kevin Dalal
Matt Hattfield
Tim Moser
Brent Sower
Tim Herby
Jay Kirby
Asif Kahn
Scott Ashcraft
Eric McMillan
Megan Powers
Eric Phelps
Robert Seagle
Trent Edwards
Zach Hurst
Amy Moore
Molly Holtman
Keith Bishop
Jessica Pitts
Gerald DeMasters
Marilyn Huang
Eric Millard
Joy Appel
Patrick Bell
Grant Hines
Autumn Ford
Daniel Reese
Corynne McCluskey
Darrah Whitt
Tram Ho
David Clark
Everett Kier
Andrea Ogier
Jennifer Rudolph
Amy Hemberger
Aaron Post
Tyler Overstreet
Ed Hrinya
Beth Kavitz
Leonee Derr

Zane Hurst
Runal Mehta
Tiffany Kidd
Bryan Thorne
Justin Farmer
Brooke Ashcraft
Aaron Dalton
Sarah Garrison
Duc Ho
David Jones
Craig Kemper
Moriah Moore
Cline Reasor
Gaea Rich
Erin Fagg
Meghan Hochkeppel
Sara Page
Andrew Dalton
Andrew Guidry
Abby Keene-Babcock
Sarah Koss
Alison Hemberger
Cassie Houff
Carly Humphrey
Emmalee Morris
Adam Reinhard
Michelle Thorne
Jessica Thurston
Matt Turbyfill
Brianna White-Gaynor
Kelly Yeatts
Ellen Bowen
Nic Byrd
Jennifer Chang
Chris Dadak
Michael Detweiler
Paul Eller
Derek Fagg
Ashley Heavner
Anne Hughes
Jessy Hylton

Amy McLaren
Conley Owens
Andrew Page
Alison Penney
Lauren Sexton
Catherine Abbot
Alison Byrd
Kelly Carter
Tory Hanabury
Caroline Lindsey
Amrita Raja
Britnee Shupe
Kim Von Achen
Ashley Whisnant
Austin Bond
Chris Dorsey
Tony Nelson
Stephanie Shupe
Ursula Dilley
Aquisi Harris
Taylor Harveycutter
Michael Hochkeppel
Molly King
Laura Koss
David Lindsey
Dhvani Patel
Gaurav Raja
Barret Sowers
Liz Arthur
Kaitlyn Bixel
Lucas Hakkenberg
Vishwas Jhaveri
Matt Lipscomb
Leanna Minnix
Cristina Page
Nitya Reddy
Amy Sailer
David Chang
Ruthie Edwards
Harrison Freund
Joel Smith

Danielle Stump
Meg Beedle
Maxim Collignon
Maxell Collignon
Terae Harris
Jackee Jordan
Adam Joyce
Jerry Kline
Ayla Krause
Jerrel Ledbetter
Nick Maxwell
Shivani Patel
Sarah Peters
Alex Reed
Karl Sorensen
Hannah Todd
Kaitlyn Ingvaldsen
Michael LeFew
Olivia Mischianti
Dharmi Patel
Holly Chaos
Lenny Enkhbold
Alex Hart
Claire Hart
Katie Marie Hester
Austin Peters
Austin Smith
Savannah Stevens
Matt West
Charlotte DeForest
Courtney Frost
Megan Gauck
Spencer Huffman
Katie Hughes
Sarah LaFrancois
Dylan McCaleb
Anna Newman
Emma Blair
Seth Greer
Aubree Harrington
Brittney Knott

Saheena Patel
Nicole Quizn
George Barker
Emily Holter
Curtis Staples
Alexander Baynum
Alesia Devlin
Elizabeth Hodges
Laure'aja Ortiz
Ashlyn Pugh
Thuyen Bui
Garrett Hicks
Abigail Poush
Joseph Quinn
Jacob Roupe
Matthew Rousey
Grace Mann
Meredith Hicks
Christian Crawley
Chance Staples
Makayla Broughman

Have questions about student progress?

Parents are strongly encouraged to use the PowerSchool Parent Portal to keep up with their child's progress toward mastering learning standards. Access the Parent Portal at:

<http://powerschool.salem.k12.va.us/public>

As a first point of contact, please direct questions about learning to your child. If after talking with your child about his or her progress you still have questions, please use email to contact the teacher directly. Please keep in mind Salem High School's Grade Posting Practice:

Salem High School's practice is to have assignments graded and posted online within one week (5 school days) of the date on which the assignment was due. Please note that alterations to the regular school routine related to student and faculty absences, weather-related calendar changes, holidays, and school activities will affect this one week deadline on occasion. Certain types of assignments, such as major projects and longer writing assignments, might take longer to grade and post. In such cases, the teacher will notify students of the date by which the teacher plans to have the assignment graded and posted.

If you feel a conference with your child's School Counselor is necessary, please feel free to contact your child's counselor via email, by calling the school during the day, or by calling the counselor's confidential direct voice mailboxes after school hours:

Drew Barrett	A-E	P: (540) 444-0914	E: dbarrett@salem.k12.va.us
Kristi Snow	F-J	P: (540) 444-0912	E: ksnow@salem.k12.va.us
Michele Arbogast	K-Q	P: (540) 444-0911	E: marbogast@salem.k12.va.us
Jenny Parrish	R-Z	P: (540) 444-0913	E: jparrish@salem.k12.va.us

SOL Terminology

SOL Content Areas:

English, Writing, Mathematics, Science,
Social Science, Computer Technology and
End-of-Course Tests

Scaled Score:

A scale with a range of 0-600.
A scaled score of 400 or more is "passing."
Scores below 400 may require summer remediation.

Proficiency Level:

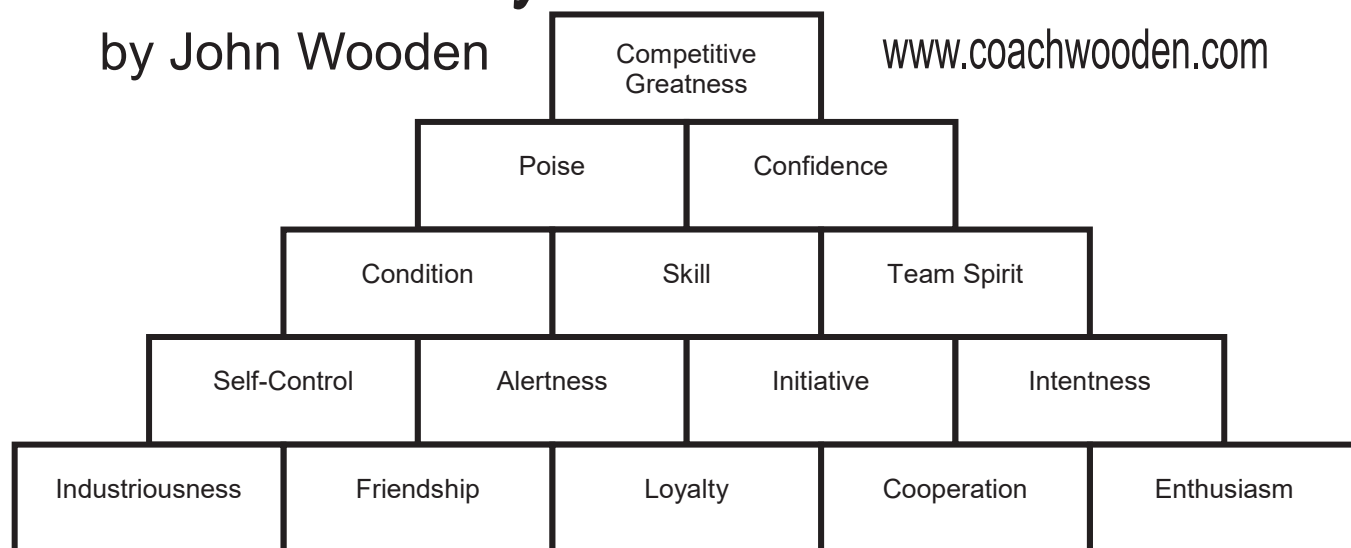
0-399 = Failing; 400-499 = Pass, Proficient; 500-600 = Pass, Advanced

The Pyramid of Success

by John Wooden

Competitive
Greatness

www.coachwooden.com



ATTENTION SALEM STUDENTS: Use the information found in the Registration Guide and the principles of John Wooden's Pyramid of Success to make your own personal plan for success. Don't leave out any of the blocks – and make competitive greatness in life your goal!

Industriousness (Cornerstone)	You have to work and you have to work hard. There is no substitute for work. Worthwhile things come only from work.
Friendship	For success, either individually or for a team, there must be a level of friendship. It is a powerful force that comes from mutual esteem, respect, and devotion.
Loyalty	You cannot work to the best of your ability unless you have someone or something to whom you are loyal. Only then do you gain peace and an increasing ability to perform at your highest level.
Cooperation	In order to reach the full potential of the group, there must be cooperation at all levels. This means working together in all ways to accomplish the common goal. And to get cooperation, you must give cooperation.
Enthusiasm (Cornerstone)	The second powerful cornerstone is Enthusiasm. You have to like what you are doing; your heart must be in it. Without enthusiasm you can not work up to your fullest ability.
Self-Control	Self control is essential for discipline and mastery of emotions, for discipline of self and those around you.
Alertness	There is something going on around us at all times from which we can acquire knowledge if we are alert. Too often we get lost in our tunnel vision and we don't see the things that are right in front of us for the taking, for the learning.
Initiative	You must not be afraid to fail. Initiative is having the courage to make decisions and take action. Keep in mind that we all are going to fail at times. This you must know. None of us is perfect. But if you are afraid of failure, you will never do the things you are capable of doing.
Intentness	Determination, Persistence, Tenacity, Perseverance
Condition	You must be conditioned for whatever you are doing if you are going to do it to the best of your ability.
Skill	It is at the very center. You have to know what you are doing and be able to do it quickly and properly.
Team Spirit	Thinking of others. Losing oneself in the group for the good of the group. It means being not just willing but eager to sacrifice personal interest or glory for the welfare of all.
Poise	Being yourself – not acting. Not pretending to be something you are not. Being comfortable with who you are – then you will be able to function near your own level of competence.
Confidence	You must have confidence. You must believe in yourself if you expect others to believe in you.
Competitive Greatness	Ultimately, all fourteen building blocks in the Pyramid of Success are necessary for competitive greatness.

High School Planning Guide

Grade 9	Grade 10	Grade 11	Grade 12
Attend your program planning conference.	Update your four-year plan.	Review your four-year plan and do a credit check.	Update your four-year plan and do a credit check.
Complete the assigned grade-level activities in Naviance.	Attend College Day. (September)	Attend College Day. (Sept.)	Update a resume and do job and college searches in the career room.
Visit the math tutor before school when necessary.	Complete the assigned grade-level activities in Naviance.	Complete the assigned grade-level activities in Naviance.	Complete the assigned grade-level activities in Naviance.
Visit the Career Coach and Media Center.	Take the PSAT. (October)	Take PSAT. (Oct.)	Attend College Day. (September)
Prepare all year for end of course tests in May/June.	Prepare all year for end of course tests in May/June.	If planning college, take the SAT/ACT.	Talk with colleges/military.
Volunteer!	Meet with military recruiters (Cafeteria on a scheduled basis).	Plan SAT Subject Tests.	Register for SAT/ACT
Participate in extracurricular activities.	Last chance to begin a world language to earn Adv. Studies Diploma.	Prepare all year for end of course tests.	Look into job shadowing opportunities
Use your registration guide.	Know prerequisites for all advanced coursework: IB/Dual Enrollment.	Maintain good grades.	Attend the Financial Aid Meeting (Oct.) or visit the financial aid website.
Use your Google calendar to plan each day.	Update your resume with accomplishments and activities for college and scholarship applications.	Attend the Financial Aid Meeting (Oct.) or visit the financial aid website.	Complete the FAFSA
Attend summer school for remediation.	Read during summer vacation. It is the secret to boosting SAT scores.	Consider IB/Dual-Enrollment Courses.	Search for scholarship opportunities, on the scholarship lists published by School Counseling Dept.
Attend school regularly. Know school policies.	Look into job shadowing opportunities.	Talk with representatives from colleges.	Apply for SEF and Chance Crawford Scholarships
Give your best effort on all standardized tests.	Attend school regularly. Know school policies.	Develop a list of realistic post-secondary choices.	Complete college applications. Give teachers two weeks notice to write recommendations. Use Naviance to request transcripts and letters of recommendation.
Read to boost all achievement scores.	Enjoy high school.	Look for scholarship opportunities.	Join Salem Education Foundation
Look into job shadowing opportunities	Support the Spartans and be proud to be one.	Visit colleges.	Support the Spartans and be proud to be one.
Enjoy high school.		Get a summer job.	
Support the Spartans and be proud to be one.		Look into job shadowing opportunities	
		Ask summer employer for a letter of reference	
		Support the Spartans and be proud to be one.	

Visit the Salem Ed Foundation Online - www.sefandaa.org

Salem High School Course

	Grade 8	Grade 9	Grade 10
English	English 8	English 9	English 10
			English 10 pre-IB, AP English
		English 9 SHS pre-IB	English 10 pre-IB, AP English

	Grade 8	Grade 9	Grade 10
Science	Physical Science	Earth Science	Biology
			Biology or Chemistry pre-IB
		Chemistry SHS pre-IB	Physics pre-IB, Biology, or Earth Science

	Grade 8	Grade 9	Grade 10
Social Studies	World Geography	Modern World History	<i>(none required for Standard Diploma or for Advanced Diploma if World Geography credit earned at ALMS)</i>
			Ancient World History
			AP US/VA History
		AP US/VA History	AP US/VA Government

	Grade 8	Grade 9	Grade 10
Math	Pre-Algebra	Algebra 1	AFDA
			Geometry
	Algebra 1	Geometry	AFDA
			Algebra 2 or Algebra 2: SHS pre-IB
	Geometry	Algebra 2 or Algebra 2: SHS pre-IB	Trigonometry: SHS Pre-IB or IB Math SL 1:Precalculus

Math Advanced Course Options: Liberal Arts Math SHS pre-IB, Trigonometry: SHS pre-IB, AP Statistics,

Sequence Chart

Grade 11	Grade 12
English 11	English 12 or English 12 CP
English 11 CP, IB English 1	English 12 CP or IB English 1
	IB English 2

Grade 11	Grade 12
Physical Science 2-Physics, Physical Science 2-Chemistry, Chemistry, AP Environmental Science or Environmental Science	<i>(none required for Standard Diploma - but could take Physical Science 2-Chem., Phys. Sci. 2-Physics, Chemistry, AP Environ. Science or Environ. Science)</i>
Chemistry, Chemistry pre-IB, IB Biology 1, IB Chemistry	Anatomy, Physics pre-IB, IB Biology 2, IB Biology 1, IB Chemistry, AP Environmental Science
IB Biology 1, IB Chemistry, IB Physics	IB Biology 2, IB Chemistry, IB Physics, IB Biology, Anatomy, Earth Science, AP Environmental Science, Biology

Grade 11	Grade 12
US History, AP US/VA History	US Government, AP US/VA Government
AP US/VA Government	IB History 1, Ancient World History
IB History 1	IB History 2, Ancient World History

Grade 11	Grade 12
Geometry	Algebra 2
AFDA	
Algebra 2 or Algebra 2: SHS pre-IB	<i>Advanced Course Options</i>
Algebra 2 or Algebra 2: SHS pre-IB	<i>Advanced Course Options</i>
<i>Advanced Course Options</i>	
<i>Advanced Course Options</i>	<i>Advanced Course Options</i>

IB Math SL 1: Precalculus, Elements of Calculus, IB Math Applications SL, IB Math SL 2, AP Calculus BC

SHS Electives

ART

Art Foundations
Advanced Drawing
Ceramics 1
Ceramics 2
Ceramics 3
Beginning Painting
Advanced Painting
Adobe Photoshop
Adobe Illustrator
Digital Photography
IB Art 1
IB Art 2
Advanced Graphic Arts

BUSINESS

Digital Applications
Accounting
COE
Business Law
Design, Multimedia, and Web Technologies
Design, Multimedia, and Web Technologies Advanced
IB Business Management
Computer Information Systems
Personal Finance and Economics
Personal Finance and Economics Online

COMPUTER SCIENCE

Computer Science Foundations
Introduction to Game Design
Foundations of Cybersecurity
AP Computer Science A (Java)
Mobile Apps

ENGLISH

Creative Writing 1
Creative Writing 2
IB Extended Essay 1
IB Extended Essay 2
Classical Mythology
Photojournalism: Yearbook

FAMILY AND CONSUMER SCIENCES

Exploring Foods
Gourmet Cuisine
Culinary Essentials
Intro to Early Childhood Education
Early Childhood Education 1
Early Childhood Education 2
FACS Internship

WORLD LANGUAGES

French
German
Spanish
Chinese

HISTORY AND SOCIAL SCIENCES

Practical Law
Sociology
Psychology
Comparative Religions
IB Theory of Knowledge 1
IB Theory of Knowledge 2
African American History

MARKETING

Intro to Marketing: Sports and Entertainment
Intro to Marketing: Fashion
Marketing
Marketing co-op
Advanced Marketing
Advanced Marketing co-op

PERFORMING ARTS

Concert Choir
Chorale
Vocal Ensemble
Salem Singers
Marching Band
Concert Band
Symphonic Band
Jazz Band
IB Music 1 & 2
Drama 1, 2, & 3
IB Theatre

PHYSICAL EDUCATION

Rhythmic Movements
PE 2 - Lifetime Fitness
Weight Training
Driver's Education
Online Health
Personal Training
Sports Medicine 1 & 2
Sports Medicine 3 Internship
Strength and Conditioning for Athletes
Sports Administration and Management

TECHNOLOGY EDUCATION

Basic Technical Drawing
Engineering Drawing
Architectural Drawing
Mechatronics
Robotics

TRADES AND INDUSTRIAL EDUCATION

Intro to Automotive Service
Intro to Collision Repair
Welding Exploratory
Welding 1, 2, 3
Auto Body 1, 2, 3
Automotive Technology 1, 2, 3
Diesel Equipment Technology 1, 2, 3
Precision Machining 1
Precision Machining 2
Cosmetology 1, 2, 3
Utility/Heavy Construction Tech 1,2
Pharmacy Tech 1,2

NCAA Initial-Eligibility Center

NCAA information and requirements are constantly changing. Stay up-to-date by visiting the Clearinghouse website at: www.eligibilitycenter.org. Use school code 472035 for access to Salem High School information.

To be certified by the Eligibility Center, you must:

1 Graduate from high school.

You should apply for certification before graduation if you are sure you wish to participate in athletics as a freshman at the college to which you will be admitted. The Eligibility Center will issue a preliminary certification report when you have had all your materials submitted. After you graduate, if your eligibility information is requested by a member institution, the Eligibility Center will review your final transcript to make a final certification decision according to NCAA standards.

The NCAA Initial-Eligibility Center has the following courses on file as meeting NCAA core course guidelines. You must have 16 of these

courses (with minimums noted). If a course is not on the list, you cannot count it. **Subjects taken in the eighth grade do not count.**

English

Creative Writing 1
Creative Writing 2
English 10
English 10 SHS pre-IB
English 11 College Preparatory
English 12 College Preparatory
English 11
English 12
English 9
English 9 SHS pre-IB
IB English 1
IB English 2
IB Extended Essay 1
IB Extended Essay 2
Classical Mythology
AP Language and Composition

Mathematics

Adv. Algebra/Trig. Pre-IB
Algebra 1
Algebra 1-Parts 1 & 2 (0.5 ea)
Algebra 2
Algebra 2 SHS pre-IB
Algebra Functions/Data Analysis
Elements of Calculus SHS pre-IB
Geometry
IB Math 1 SL
IB Math 2 SL
Liberal Arts Math SHS pre-IB
IB Math Applications SL
Liberal Arts Math
AP Calculus BC

AP Statistics

Social Science

Practical Law
Psychology
Sociology
History 1 - IB HL
History 2 - IB HL
Theory of Knowledge IB 1
Theory of Knowledge IB 2
VA/U.S. Government
AP VA/US Government
VA/U.S. History
AP VA/US History
World Geography
Modern World History
Ancient World History

Natural/Physical Science

Anatomy & Physiology (Lab)
Biology (Lab)
Biology 1/IB HL (Lab)
Biology 2/IB HL (Lab)
Chemistry (Lab)
Chemistry SHS pre-IB (Lab)
Chemistry SL/IB (Lab)
Earth Science (Lab)
Physical Science 2 (Lab)
Physics (Lab)
Physics SHS Pre-IB (Lab)
AP Environmental Science

Additional Core Courses

Business Law
French 1
French 2
French 3
IB French 1
IB French 2
German 1
German 2
German 3
IB German 1
IB German 2
IB Theater
Spanish 1
Spanish 2
Spanish 3
IB Spanish 1
IB Spanish 2
Chinese 1
Chinese 2
Chinese 3
IB Chinese 1
IB Chinese 2

Note: The NCAA no longer accepts Computer Science courses to fulfill core course requirements.

2 Earn a grade-point average of at least 2.3

(Beginning with the Class of 2016) in a core curriculum of at least 16 academic courses which were successfully completed during grades 9 through 12. Complete 10 courses including 7 in English, Math or Science before the start of your 7th semester. Once you begin your 7th semester, you may not repeat or replace any of these 10 courses for GPA improvement. Only courses that satisfy the NCAA definition of a core course can be used for NCAA GPA. No special value are allowed for "+" or "-" grades. The chart on the following page shows the core course minimum for inclusion.

Core Units Required for NCAA Certification

	Division I	Division II	
English Core	4 years	3 years	
Math Core	3 years	2 years	
Science Core	2 years	2 years	
Social Science Core	2 years	2 years	
From English, Math, or Science (additional core)	1 year	3 years	
Additional Core (English, Math, Science, Social Science, Foreign Language, Nondoctrinal Religion, Philosophy)	4 years	4 years	
Total Core Units Required	16	16	

3

Earn a sum of scores of at least 75 on the ACT or a combined score of at least 900 on the SAT on a national test date.

For Division I: The minimum grade-point average in the 16 core courses and required ACT or SAT score vary according to the Initial-Eligibility Index below. This index applies to students who wish to participate in Division I athletics. (For Division II visit www.eligibilitycenter.org).

Core GPA	ACT	SAT
Sum of Scores		
above 2.800	57	700
2.800	57	700
2.775	58	710
2.750	59	720
2.725	60	730
2.700	61	740
2.675	61	750
2.650	62	760
2.625	63	770
2.600	64	780
2.575	65	790

Core GPA	ACT	SAT
Sum of Scores		
2.550	66	800
2.525	67	810
2.500	68	820
2.475	69	830
2.450	70	840
2.425	70	850
2.400	71	860
2.375	72	870
2.350	73	880
2.325	74	890
2.300	75	900

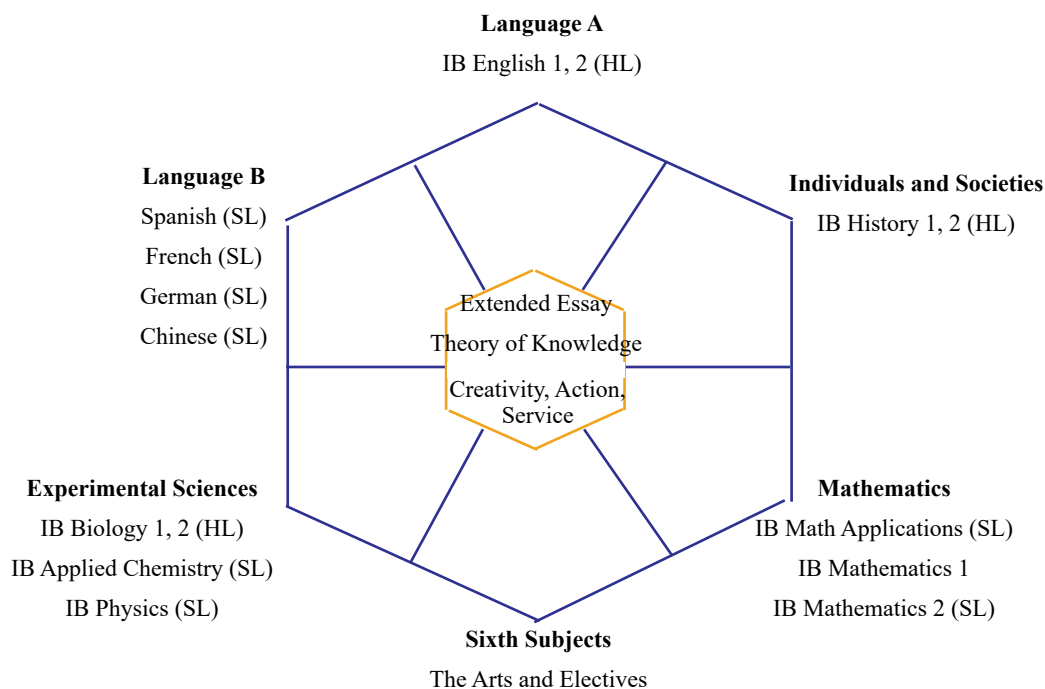
For additional information, students should refer to the NCAA Guide for the College-Bound Student-Athlete. These booklets can also be obtained online at www.eligibilitycenter.org.

The most frequently asked question: **WHEN SHOULD I REGISTER WITH THE ELIGIBILITY CENTER?** Students should apply for certification after their junior year in high school if they wish to participate in inter-collegiate athletics as a freshman at a Division I or II institution. Please note that final eligibility/certification is not granted until the student graduates from high school and a final transcript is sent. The student is responsible to request that this final transcript be sent to the NCAA.

International Baccalaureate Program

Credits Required	English	Math	Science	History and Social Science	
IB Diploma (28)	4	5	4	5	
	Health and Phys. Education	World Language	Fine or Practical Arts	Minimum Electives	Electives must include 1/2 unit in Personal Finance
	2	5	1	2	

IB Diploma students also receive the Advanced Studies Diploma.



Language A1 (English) including the study of selections from World Literature.

Language B: Spanish, French, Chinese or German

Individuals and Societies: History of Europe, Twentieth Century History

Experimental Sciences: Biology, Chemistry, Physics

Mathematics: Mathematical Applications, IB Math 1, I Math 2

The Arts and Electives: Art/Design, Music, Theatre Arts, Business and Management, a second world language, a second science

Visit the IB website at www.ibo.org or the Salem IB website through the school webpage at <http://salem.k12.va.us/shs/ib>

APPLICATION PROCEDURE FOR DUAL-ENROLLED STUDENTS:

Any student who wishes to participate in the dual enrollment program at Salem High School must complete the online application located at:

<http://apply.vccs.edu/oa/launch.action>

Then click on the **Apply Now** link.

When this application is completed, the student's EMPL ID number automatically appears on the screen. **Record this number for use during your high school years; you will need it for enrollment for all dual-enrolled classes in the future.**

The next step is to take the Placement Test. All students planning to dual enroll in a class must take the test either at ALMS or VWCC before they will be accepted into dual-enrolled classes.

✓ Senior Checklist ✓

- _____ Register for the SAT and/or ACT. Include the school code (472035).
- _____ Register for SAT subject tests if required by colleges.
- _____ Make requests with CollegeBoard and/or ACT to have scores sent to colleges.
- _____ Use Naviance Student to request transcripts.
- _____ Attend Senior Q&A with parents in September.
- _____ Attend the College Fair at the Salem Civic Center in September.
- _____ Visit with college reps who come to SHS.
- _____ Visit colleges and attend open houses.
- _____ Attend the Financial Aid Workshop in the Fall.
- _____ Complete the Free Application for Federal Student Aid (FAFSA) beginning Oct. 1
- _____ Check Naviance Student regularly for scholarship information.
- _____ Complete early decision applications by October 1.
- _____ Complete all college applications regardless of deadlines by December 1.
- _____ Make sure any parts of the application that need to be completed by a counselor have been turned in.
- _____ Check with all colleges to see if all parts of the application have been received.
- _____ In late April/early May complete the final transcript request form.
- _____ For athletes participating in a sport at a Division I or II college, register with the NCAA.
- _____ Visit with military reps during lunches.
- _____ Begin VWCC CCAP process after Oct. 1.
- _____ Complete all tasks in Naviance Student.



Salem High School Interest Pathways

For each Pathway, students must complete a minimum of the courses required to obtain the Standard, Advanced or IB Diploma. If interested in a Senior Pathway Project, see your counselor.

Title of Pathway	Communications and Journalism	Teaching, Learning and Child Development	Automotive and Welding
Potential Careers	Writer, Journalist, Editor, Communications Specialist, Public Speaker, Lawyer, Publisher, Advertising & Marketing Specialist, Graphic Artist, Educator, Photographer, Videographer	Teacher, Instructional Assistant, Preschool Director, Professor, School Psychology, School Counselor, Child Psychologist, Daycare Supervisor	Welding Engineer, Welding Operator, Nuclear/Structural Welder, Automotive Engineer, Business Management, Insurance Adjustor, Diesel/Automotive Technician, Collision Repair Technician
Courses Related to Pathway	Eng 9 Pre-IB Eng 10 Pre-IB AP Language and Composition Eng 11 College Prep or IB 1 Eng 12 College Prep or IB 2 Creative Writing Drama Photojournalism Illustrator Photoshop Digital Photography Design, Multimedia, and Web Technologies	Intro to Early Childhood ECE 1 ECE 2 FACS Internship Psychology Sociology	Welding I, II, and III Auto Technology I, II, and III Auto Body I, II, and III Diesel Technology 1, 2 Personal Finance IB Business Management
Suggested Independent Experiences	School Publications (Laconian & Delphi), Summer journalism workshops, School or community theater, Forensics, News or publication internships, design competitions.	Attending educational conferences and forums, volunteering with children, summer camps, babysitting, reading educational magazines for current topics and events in education.	Job shadowing, Internships
Certifications Available		Parapro Assessment	American Welding Society SENSE Entry Level Welding Certification OSHA 10 Safety Certification SP2 Safety Certification ASE Student Certifications

Salem High School Interest Pathways

For each Pathway, students must complete a minimum of the courses required to obtain the Standard, Advanced or IB Diploma. If interested in a Senior Pathway Project, see your counselor.

Title of Pathway	Visual Art	Business	Ecology & Environmental Science
Potential Careers for this Pathway	Commercial Artist, Illustrator, Textile Designer, Computer Animator, Art Teacher, Fashion Designer, Art Therapist, Ceramist, Artist, Metalsmith/Jeweler, Production Potter, Product Design Manager	Computer Operator, Desktop Publisher, Administrative Assistant, Office Manager, Typist, Accountant, Auditor, Financial Planner, Broker, Buyer, Real Estate	Environmental Engineer, Water Quality Manager, Environmental Compliance Assurance Manager, Waste Management
Courses Related to Pathway	Art Foundations Advanced Drawing Beginning & Advanced Painting Ceramics I, II & III Illustrator Digital Photography IB Art I & 2	Computer Information Systems Business Law IB Business & Management Design, Multimedia, and Web Technologies Accounting COE Creative Writing World Language Personal Finance & Economics	Environmental Ecology Sociology US and Virginia Government IB Math Applications Earth Science Biology IB Biology I & II Chemistry Physics Algebra II AP Environmental Science
Suggested Independent Experiences	Visit local galleries and businesses (Taubman, Fast Signs, Salem Museum, Glazed Bisquit, Brambleton Center), Intern or job shadow with local artists, Attend art shows.	Internships with local businesses or banks, job shadowing with industry professionals, service learning opportunities	Internships with the following agencies: <ul style="list-style-type: none"> • VA Department of Health • VA Division of Environmental Health • Virginia Tech Forestry/Agriculture Department
Certifications Available at Salem High School		WISE Financial Literacy Microsoft Office Specialist	Occupational Safety & Health Administration Certification (OSHA) Materials Safety & Data Sheets Certification (MSDS)

Salem High School Interest Pathways

For each Pathway, students must complete a minimum of the courses required to obtain the Standard, Advanced or IB Diploma. If interested in a Senior Pathway Project, see your counselor.

Title of Pathway	Health, Exercise and Medical Services	Engineering and Technology	Science and Mathematics
Potential Careers	Athletic Trainer, Personal Trainer, Exercise Physiologist, Dietician, Geriatric Services, Leisure Activities Coordinator, EMT, Firefighter, RN, LPN, CNA, Physical Therapist, Occupational Therapist, Physicians' Assistant, Fitness Facility Administrator, Group Exercise Instructor, Doctor, Parks and Recreation Manager	Engineer Electronics Technician Manufacturing Technician CAD Technician Survey Technician Mechatronics Metallurgist	Chemist, Meteorologist, Zoologist, Wildlife Biologist, Astronomer, Atmospheric & Space Scientist, Forensic Scientist, Statistician, Actuary, Physicist, Hydrologist, Geoscientist, Soil & Water Conservationist, Food Scientist, Nuclear Power Reactor Technician, Geneticist, Molecular & Cellular Biologist, Geographic Information Systems Technician, Quality Control Analyst, Petroleum Technician
Courses Related to Pathway	Biology IB Bio I & II Health 1 & 2 Physical Education IB Math 1 & 2 Adapted Physical Education Weight Training Personal Training Sports Medicine/Internship Chemistry Anatomy	Trigonometry IB Math 1 & 2 AP Calculus BC AP Statistics Pre-IB & IB Physics Engineering Drawing Robotics Robotics Internship Basic Technical Drawing Architectural Drawing	Physics, Pre-IB & IB Physics Chemistry, Pre-IB & IB Chemistry Biology, Pre-IB & IB Biology I & II IB Math 1 & 2 Trigonometry Liberal Arts Math SHS pre-IB IB Math Applications Physical Science AP Environmental Science Engineering Drawing Architectural Drawing Robotics & Robotics Internship Basic Technical Drawing
Suggested Independent Experiences	Job shadowing or internships with local businesses (Roanoke Athletic Club, YMCA, Carilion, Jefferson College of Health Sciences, local EMS)	Job shadowing of local engineers or technicians. Meeting with engineers of different disciplines to determine which types of engineering are of greatest interest.	IB Certificates in all math & sciences, job shadowing with local businesses in the field, summer science or math camps, visits to colleges that have programs of math or science study.
Certifications Available	First Aid & Adult CPR Certification Infant & Child CPR Certification	Solidworks Auto CAD Inventor MT1	

Salem High School Interest Pathways

For each Pathway, students must complete a minimum of the courses required to obtain the Standard, Advanced or IB Diploma. If interested in a Senior Pathway Project, see your counselor.

Title of Pathway	Government and Public Administration	Culinary Arts	Performing Arts
Potential Careers	Legislative Aide, Politician, Lobbyist, Military, Legal Analyst, IRS, FBI, Attorney, Border Inspector, Bank Examiner, Immigration Specialist, Anthropologist, City Manager	Head Chef, Sous Chef, Cook, Line Worker, Nutritionist, Caterer, Restaurant Manager, Server, Banquet Manager, Kitchen Manager, Restaurant Owner, Maitre d'	Actor, Composer, Musician, Sound or Light Designer, Lighting Director, Scenic Director, Music Educator, Drama Teacher, Band Director
Courses Related to this Pathway	Personal Finance & Economics Sociology Psychology Practical Law Business Law Comparative Religions Pre-IB or IB English AP Government IB History I & II World Language US/VA History or AP US/VA History Modern World History Ancient World History	Exploring Foods Gourmet Cuisine Culinary Essentials FACS Internship Marketing Advanced Marketing	Concert Band Symphonic Band Marching Band IB Music I & II Concert Choir Vocal Ensemble Chorale Salem Singers Drama I, II & III IB Theatre
Suggested Independent Experiences	School Publications (Laconian & Delphi), Summer journalism workshops, School or community theater, Forensics, News or publication internships, design competitions.	Job shadowing or internships with local businesses within the field.	Internships with local sound companies, orchestras, or theatres. Job shadowing with local artists. Attend local music and theatre events. Become aware of local agencies that promote the arts.
Certifications Available		Servsafe Nocti Cook I	

Salem High School Interest Pathways

For each Pathway, students must complete a minimum of the courses required to obtain the Standard, Advanced or IB Diploma. If interested in a Senior Pathway Project, see your counselor.

Title of Pathway	Computer Science	Marketing and Sales	Law & Public Safety
Potential Careers	Computer Engineer, Software Design Engineer, Network Developer or Administrator, Game Developer, Web Developer, Data Analyst, PC Support Specialist, Programmer	Customer Service, Sales Representatives, Administrative Support Representative, Store Manager, Buyer, Merchandiser, Advertiser, Market Researcher, Media Manager	Corrections Officer, Police Officer, Park Ranger, Military, Sheriff, Security Guard, Attorney, Clerk of Court, Balif, Officer of the Court
Elective Courses Recommended	AP Computer Science Introduction to Engineering Robotics Computer Mathematics IB Math 1 & 2 AP Calculus BC Algebra I & II AP Statistics Intro to Game Design Foundations of Cybersecurity Mobile Apps Computer Science Foundations	Intro to Marketing (Fashion & Sports and Entertainment) Marketing Advanced Marketing Marketing Coop Psychology Sociology Illustrator Digital Photography Design, Multimedia, and Web Technologies Photojournalism IB Business & Management Computer Information Systems	Practical Law Business Law Psychology Sociology College Prep, Pre-IB or IB English US/VA History US/VA Government
Suggested Independent Experiences	Job shadowing or internships with local businesses within the field.	Job shadowing or internships with local businesses within the field.	Job shadowing or internships with local businesses within the field, court observations.
Certifications Available		Customer Service and Sales Certification from the National Retail Federation (NRF)	