

**MIDDLE AND HIGH SCHOOL
PROGRAM OF STUDIES
2024-2025**



B O T E T O U R T
COUNTY PUBLIC SCHOOLS

DR. JONATHAN RUSS - SUPERINTENDENT
143 POOR FARM ROAD
FINCASTLE, VA 24090

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Information in this registration guide is subject to change pending state and local board action. All courses described in this booklet will be offered pending adequate enrollment, teaching staff, and available funding.

Botetourt County Public Schools

School Board Office
143 Poor Farm Road
Fincastle, VA 24090
Telephone (540) 473-8263
FAX (540) 473-8298

The program of studies is designed to assist students and parents/guardians in understanding the courses available at the secondary level in Botetourt County Public Schools. The secondary schools offer a variety of courses to prepare our students for their transition to post-secondary education, the workforce, and life after high school. Courses are offered to explore individual interests as well.

To the Students,

You are about to continue on a very important journey that will include making decisions about your future. Planning the courses you will take doesn't just happen. It takes thought and careful consideration of the many career pathways that prepare students for the transition to post-secondary education and the workforce. Take full advantage of the choices. These choices are broad and can be explored in-depth. Don't be afraid to try something new or challenging. You can take challenging and rigorous courses in each and every department. We offer courses required for graduation, college level courses, and our career and technical education courses offer a variety of skills that connect the classroom to the ever-changing world of work. Students should use this guide to verify graduation requirements, see which classes are required at each grade level, learn which electives are offered at each grade level, and discover whether a desired class has any prerequisites. Students should not anticipate changing their course selections and schedules after registration. Your careful selection of courses will assist us in developing schedules, assigning teachers, and determining when courses are offered in the most efficient manner. We encourage each of you to discuss your choices with your parents and ask your teachers for their advice.

To the Parents,

We encourage you to take an active role in your student's academic career planning. In the ever-changing world that students will be entering after high school, sound decision-making is crucial. Parents are a student's most influential teacher. We encourage your student to explore areas of career interest, talents, and abilities. It is important that you be an active participant with school staff and support your son or daughter. Our master schedule is developed after students complete their initial registration. To be as efficient as possible, your student should only sign up for those classes they truly intend to take. During the final master schedule process, students may experience conflicts with courses and adjustments may be made. Changes in course requests must be kept to a minimum and will only be approved due to a change in post-high school plans. We are proud of the quality of courses offered and the excellent instruction your student will receive while attending Botetourt County Public Schools. Together, we will work with your student to provide the best possible education.

Sincerely,



Dr. Jonathan D. Russ
Division Superintendent



Dr. Janet Womack
Assistant Superintendent for Instruction

The Botetourt County School Board is committed to nondiscrimination with regard to sex, sexual orientation, gender, gender identity, race, color, national origin, disability, religion, ancestry, age, marital status, pregnancy, childbirth or related medical conditions, military status, genetic information or any other characteristic protected by law. This commitment prevails in all of its policies and practices concerning staff, students, educational programs and services, and individuals and entities with whom the Board does business. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Mr. Tim McClung
Director of Human Resources
143 Poor Farm Road
Fincastle, VA 24090
(540) 473-8263

Mr. Mike Tetreault
Supervisor of Instruction
143 Poor Farm Road
Fincastle, VA 24090
(540) 473-8263

PARENT/GUARDIAN REGISTRATION INFORMATION MEETINGS

Botetourt County Secondary Schools Parent/Guardian Registration Information Meetings	
Central Academy Middle School	November 2, 2023 Rising 8th Grade at 6:00 p.m. Rising 7th Grade at 6:45 p.m. Rising 6th Grade at 7:30 p.m.
Read Mountain Middle School	November 27, 2023 at 5:30 p.m.
James River High School	October 24, 2023 Rising 9 th at 6:00 p.m. Rising 10 th - 12 th at 7:00 p.m.
Lord Botetourt High School	October 25, 2023 Rising 9 th at 6:00 p.m. Rising 10 th - 12 th at 7:00 p.m.
Botetourt Technical Education Center	Botetourt Technical Education Center (BTEC) information will be made available at both high school registration meetings.
Virtual Academy	Virtual Academy information will be made available at all middle and high school registration meetings.

Governor's Schools Information Meeting Information	
Roanoke Valley Governor's School (RVGS)	The admissions process begins by attending one of the informational sessions during the month of January. Students should attend one of the sessions below with at least one parent/guardian. ▪ January 9th at RVGS - 6:30 PM ▪ January 11th at Franklin County High School - 6:30 PM ▪ January 16th at RVGS - 6:30 PM ▪ January 18th at Staunton River High School - 6:30 PM ▪ January 23rd at RVGS - 6:30 PM
Jackson River Governor's School (JRGS)	Please see your school counselor or check the Jackson River Governor's School website for information on program offerings and the application process. <i>Please note that this program is only open to rising juniors and seniors.</i>

GRADUATION REQUIREMENTS

GENERAL INFORMATION

The requirements for a student to earn a diploma or certificate from Botetourt County Public Schools (BCPS) are outlined in this section. The requirements vary depending on diploma type.

When students below the ninth grade successfully complete courses offered for credit in grades nine through twelve, credit shall be counted toward meeting the standard units required for graduation provided the courses meet Standards of Learning (SOL) content requirements or are equivalent in content and academic rigor as those courses offered at the secondary level. Courses taken before the ninth-grade year will **not** be used in calculating a student's grade point average.

A standard **unit of credit** for graduation is based on participation in instruction that is equal to or comparable to 140 clock hours and successful completion of the requirements of the course. A **verified unit of credit** is awarded based on participation in instruction that is equal to or comparable to 140 clock hours, successful completion of the requirements of the course, and a passing score on the SOL test for that course or Board of Education approved tests.

Block scheduling in Botetourt County high schools gives students the opportunity to complete eight courses in a regular high school academic year. Specific graduation requirements for Botetourt County students can be found on pages 7-10. Because of the increased course opportunities afforded to students through our scheduling model, the Virginia Board of Education approved the division's increase in local requirements for graduation.

More information on graduation requirements can be found in this guide and on the [Virginia Department of Education \(VDOE\) website](#).

DIPLOMA SEALS

Students may receive seals or awards for exceptional academic, vocational, citizenship, or other exemplary performance in accordance with criteria defined by the State Board of Education or Botetourt County School Board.

STATE BOARD SEALS

1. The Governor's Seal shall be awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment courses.
2. The Board of Education Seal shall be awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A."
3. The Board of Education's Career and Technical Education Seal will be awarded to students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses; or (i) pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association, or (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia.
4. The Board of Education's Seal for Excellence in Civics Education will be awarded to students who (i) satisfy the requirement to earn a Standard Diploma or an Advanced Studies Diploma, (ii) complete Virginia and United States History and Virginia and United States Government courses with a grade of "B" or higher; (iii) have good attendance and no disciplinary infractions as determined by local school board policies and, (iv) complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.
5. The Seal of Biliteracy will be awarded to a student who has attained proficiency in English and one or more other world languages by high school graduation. This seal serves to certify attainment of biliteracy for students, employers and institutions of higher education. It is a statement of accomplishment that helps to signal evidence of a student's readiness for career and college, and for engagement as a global citizen.
6. The Board of Education's Seal for Excellence in Science and the Environment is awarded to students who enter the ninth grade for the first time in the 2018-2019 year and thereafter, and meet each of the following criteria: (i) Earn either a Standard or Advanced Studies Diploma (ii) Complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of "B" or higher; (iii) Complete laboratory or field-science research and present that research in a formal, juried setting; (iv) Complete at least 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration.

LOCAL SCHOOL BOARD SEALS

1. Jackson River Governor's School
2. National Honor Society
3. Roanoke Valley Governor's School

HONOR GRADUATE DESIGNATIONS

Botetourt County Public Schools recognizes the following levels of Honor Graduates:

Graduate with Highest Distinction	(Gold stole)	GPA 4.25+
Graduate with High Distinction	(Silver stole)	GPA 4.0-4.24
Graduate with Distinction	(White stole)	GPA 3.75-3.99

GRADUATION REQUIREMENTS ADVANCED STUDIES DIPLOMA

To graduate with an Advanced Studies Diploma for students entering the ninth grade for the first time in 2018-2019 and beyond, a student must earn at least 28 standard units of credit and five verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education.

Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for an Advanced Studies Diploma.

ADVANCED STUDIES DIPLOMA COURSE REQUIREMENTS FOR STUDENTS ENTERING THE NINTH GRADE FOR THE FIRST TIME IN 2018-2019 AND BEYOND		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	4	1
Laboratory Science ²	4	1
History and Social Sciences ³	4	1
World Language ⁴	3	0
Health and Physical Education	2	0
Fine Arts or Career and Technical Ed ⁵	1	0
Economics & Personal Finance	1	0
Electives ⁶	5	0
Total	28	5

**Please see additional information regarding graduation requirements on the next page.*

ADVANCED STUDIES DIPLOMA REQUIREMENTS, CONTINUED

NOTE 1: Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The board shall approve courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a mathematics course credit.

NOTE 2: Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve additional courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a science course credit.

NOTE 3: Courses completed to satisfy this requirement shall include Virginia and U.S. History, Virginia and U.S. Government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement.

NOTE 4: Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

NOTE 5: An approved computer science course credit earned by students may be considered a career and technical credit.

NOTE 6: Courses to satisfy this requirement shall include at least two sequential electives. More information is provided in the Guidance Document Governing Certain Provisions of the SOA (8VAC-20-131) (Word).

ADDITIONAL REQUIREMENTS FOR GRADUATION

- **AP, Honors, IB, Dual Enrollment, Work-Based Learning, or CTE Credential** – Students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.
- **Virtual Course** - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online. Guidance on this requirement is provided in the Guidance Document Governing Certain Provisions of the SOA (8VAC-20-131).
*BCPS students fulfill this requirement after successfully completing Economics and Personal Finance (6120).
- **First Aid, CPR, and AED Training** - Students shall be trained in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED), including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in 8VAC20-131-420(B).
- **Demonstration of the Five Cs** - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board. Botetourt County students also demonstrate a sixth C, which is conviction. The “C” skills are embedded into the curriculum framework of courses and students demonstrate these skills by successfully completing the requirements for graduation.

GRADUATION REQUIREMENTS STANDARD DIPLOMA

To graduate with a Standard Diploma for students entering the ninth grade for the first time in 2018-2019 and beyond, a student must earn at least 26 standard units of credit and five verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education.

Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for a Standard Diploma.

STANDARD DIPLOMA COURSE REQUIREMENTS FOR STUDENTS ENTERING NINTH GRADE FOR THE FIRST TIME IN 2018-2019 AND BEYOND		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	3	1
Laboratory Science ²	3	1
History and Social Science ³	3	1
Health and Physical Education	2	0
World Language, Fine Arts or Career and Technical Education (CTE) ⁴	2	0
Economics and Personal Finance	1	0
Electives ⁵	8	0
Total	26	5

**Please see additional information regarding graduation requirements on the next page.*

STANDARD DIPLOMA REQUIREMENTS, CONTINUED

NOTE 1: Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra Functions and Data Analysis, Algebra II, or other mathematics courses approved by the board to satisfy this requirement. An approved computer science course credit earned by students may be considered a mathematics course credit.

NOTE 2: Courses completed to satisfy this requirement shall include course selection from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a science course credit.

Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.

NOTE 3: Courses completed to satisfy this requirement shall include Virginia and U.S. History, Virginia and U.S. Government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.

Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.

NOTE 4: Credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. An approved computer science course credit earned by students may be considered a career and technical course credit.

NOTE 5: Courses to satisfy this requirement shall include at least two sequential electives. More information is provided in the Guidance Document Governing Certain Provisions of the SOA (8VAC-20-131).

Additional Requirements for Graduation

- **AP, Honors, IB, Dual Enrollment, Work-Based Learning, or CTE Credential** – Students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.
- **Virtual Course** - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online. Guidance on this requirement is provided in the Guidance Document Governing Certain Provisions of the SOA (8VAC-20-131).
*BCPS students fulfill this requirement after successfully completing Economics and Personal Finance (6120).
- **First Aid, CPR, and AED Training** - Students shall be trained in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED), including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in 8VAC20-131-420(B).
- **Demonstration of the Five Cs** - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board. Botetourt County students also demonstrate a sixth C, which is conviction. The skills are embedded into the curriculum framework of courses and students demonstrate these skills by successfully completing the requirements for graduation.

VERIFIED CREDITS

The Standards of Learning (SOL) represent the minimum learning objectives for every Virginia student in grades K through 12 in the core academic subject areas. Students must earn both standard credits and verified credits in order to graduate. A verified credit is awarded when the student passes the course and the corresponding End-of-Course SOL test.

SOL COURSES FOR VERIFIED CREDIT			
ENGLISH	HISTORY AND SOCIAL SCIENCE	MATH	SCIENCE
English 11 (Reading)	World History I	Algebra I	Earth Science
English Local Assessment (Writing)	World History II	Geometry	Biology
	Virginia and U.S. History	Algebra II	Chemistry

LOCALLY AWARDED VERIFIED CREDITS

The Botetourt County School Board awards verified credits in English, mathematics, science, and history and social science in accordance with Board of Education regulations and guidance (Policy IKFA).

To be eligible to earn locally awarded verified credits in English, mathematics, science, or history/social science, a student must:

- Pass the high school course,
- Score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice; and
- Demonstrate achievement in the academic content through an appeal process administered at the local level.

As a result of the comprehensive review and revision of the Standards of Accreditation that occurred in 2017, graduation requirements differ for students who began ninth grade prior to the 2018-2019 school year and those that entered ninth grade in the 2018-2019 school year and thereafter. Accordingly, the number of locally-awarded verified credits and the diplomas to which they may be applied are different for these groups of students.

For students entering the ninth grade for the first time prior to the 2018-19 academic year:

- No more than three locally awarded verified credits may be awarded.
- Locally-awarded verified credits cannot be applied toward an Advanced Studies diploma.

For student entering the ninth grade for the first time in the 2018-2019 academic year and thereafter:

- No more than one locally-awarded verified credit may be awarded.
- Locally-awarded verified credits can be applied toward either a Standard or an Advanced Studies diploma.

Credit accommodations for student with disabilities earning a Standard Diploma are not subject to the limit on the number of locally-awarded verified credits that may be earned. More information on credit accommodations is available on the [Credit Accommodations](#) webpage.

CTE VERIFIED CREDITS

Verified credit will be awarded for a lab science for certification or licensure examinations that meet all of the following criteria:

A laboratory science verified credit may be awarded to students who complete a career and technical education program sequence and (i) pass two examinations or occupational competency assessments in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, trade, or professional association; (ii) acquire two professional licenses in a career and technical education field from the Commonwealth of Virginia; or (iii) pass one examination or competency assessment from clause (i) and acquire one license from clause (ii). The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement

EARLY COLLEGE SCHOLARS

The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma. In Botetourt County, students may meet the requirements for the Early College Scholars program through AP and dual enrollment courses.

To qualify for the Early College Scholars program, a student must complete and sign an Early College Scholars program agreement with their high school counselor, have a "B" average or better, be pursuing an Advanced Studies Diploma, and complete college-level course work (i.e., Advanced Placement or dual enrollment) that will earn at least 15 transferable college credits.

Students who successfully complete the program will receive a certificate from the Virginia Department of Education at graduation. [Please see the Virginia Department of Education Early College Scholars website for more information.](#)

VIRGINIA COLLEGE AND CAREER READINESS INITIATIVE (CCCRI)

The Virginia College and Career Readiness Initiative is designed to ensure that college and career-ready learning standards in reading, writing and mathematics are taught in every Virginia high school classroom and strengthen students' preparation for college and the work force before leaving high school.

There are four ways a student can count positively as part of a school's College, Career, and Civic Readiness Indicator. These components are:

1. Credit for an Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment course,
2. Career and Technical Education (CTE) finisher (earned two or more standard credits for a state-approved sequence in a CTE program) with a CTE credential,
3. Completion of a Work-Based Learning (WBL) experience, or
4. Completion of a service-learning experience.

STUDENT GRADE CLASSIFICATION

Student grade classification is based on the completed number of standard credits and is for record purposes only and does not indicate academic standing. Student grade classification has no bearing on the original cohort graduation year. Students classified as tenth graders must have at least 6 credits, eleventh graders must have at least 13 credits, and twelfth graders must have at least 20 credits.

DAY/YEAR SCHEDULE

Schools operate on a 180 day school year. All students must maintain a full day schedule. Exceptions will be granted for students in programs deemed appropriate by an IEP committee or high school students enrolled in workbased learning programs granting credit. The Division Superintendent may, in cases of financial need, health, or other extreme circumstance, grant additional exceptions.

PARENT/GUARDIAN NOTIFICATION OF RETENTION OR CREDIT DENIAL DUE TO ATTENDANCE

School attendance is critical for academic achievement and preparation of students for the world of work. Each parent/guardian, having charge of a child within the compulsory attendance age, shall be responsible for the child's regular and punctual attendance at school as required under provisions of the law. Student attendance shall be monitored and reported as required by state law and regulations. Attendance by period will be recorded and will be noted on the student's report card each nine weeks. Please refer to School Board policy JED-BR1 for more detailed information regarding student attendance.

Middle School: When a student has accumulated more than sixteen (16) absences, the building principal or designee, will notify the parent/guardian of the possibility of retention or denial of credit and the option to file a waiver.

High School: The building principal or designee will notify the parent/guardian of a student who has accumulated more than eight (8) absences and is being denied course credit. The parent/guardian will be provided information on the option to file a waiver.

SCHEDULE CHANGE PROCEDURES

Students are encouraged to make schedule choices carefully. **Dropping or changing a course may necessitate a complete schedule change. Changes in initial course selections cannot be made after June 1.** No exceptions will be made unless approved by the building administration.

CHANGE FROM ONE COURSE TO ANOTHER WILL BE MADE ONLY UNDER THE FOLLOWING CIRCUMSTANCES:

- a) Failure of a course which is a prerequisite for a scheduled course or a graduation requirement
- b) Human or computer error
- c) Change in a program of studies
- d) Recommendation of administration
- e) No move between course levels will be made after the first five weeks of a course

DROPPING A COURSE:

TYPE OF COURSE	DROP/WITHDRAWAL DATE	HIGH SCHOOL GRADE/TRANSCRIPT	COLLEGE GRADE/TRANSCRIPT
HIGH SCHOOL COURSE	A student drops a course before the Friday of the first full week of school.	No grade will be recorded. The student will be enrolled in a new course.	N/A
	A student may not drop a course after the Friday of the first full week of school.	The student will remain in the course and the final grade earned will be recorded on the transcript.	N/A
BCPS DUAL ENROLLMENT COURSE	A student drops a course before the Friday of the first full week of school.	No grade will be recorded. The student will be enrolled in a new course.	No college grade recorded. Tuition costs may be refunded.
	A student drops a course after the Friday of the first full week of school and before the college dual enrollment calendar ADD/DROP date.	The student will remain in the course and the final grade earned will be recorded on the transcript.	No college grade recorded. Tuition costs may be refunded.
	A student drops a course after the Friday of the first full week of school AND before the college dual enrollment calendar WITHDRAWAL date.	The student will remain in the course and the final grade earned will be recorded on the transcript.	The community college will determine the grade on the college transcript. Tuition costs may not be refunded.
VIRTUAL VIRGINIA COURSE	A student drops a course by July 15 th .	No grade will be recorded. The student will be enrolled in a new course.	N/A
	Students who do not login, are inactive, or fail to complete coursework over a consecutive 8-day period will be administratively withdrawn from VVA courses.	The student will receive a W/F on the high school transcript.	N/A
DUAL ENROLLMENT COURSES AT MGCC AND VWCC	Students should follow the drop/withdrawal dates set by the community college.	Students must meet with their high school counselor before dropping any dual enrollment course.	The community college will determine the grade on the college transcript.

Middle School Note:

High school credit courses taken in the middle school will be counted toward the units needed for graduation from high school. High school credit courses taken in the middle school will not be used in the calculation for GPA. When a student takes a credit-bearing course in middle school, parents/guardians may request that the student's final grade be omitted from his/her high school transcript. Therefore, the course would not count as a high school credit and the course would need to be retaken in order to receive a standard credit toward graduation. A written request to remove the final grade must be provided to the middle school principal by June 30 of the same academic year in which the course was taken. BCPS Policy: IKEB/JO-BR1

ATHLETIC ACADEMIC ELIGIBILITY

VIRGINIA HIGH SCHOOL LEAGUE

Under Virginia High School League (VHSL) policy, in order to be academically eligible to represent a school in any VHSL interscholastic athletic contest, a student must have passed at least five credit subjects, or the equivalent, the previous semester and must be currently taking not fewer than five credit subjects or the equivalent for participation during the second semester. Freshmen are automatically eligible in the fall semester of their freshman year.

Under BCPS' 4x4 block schedule, one block is the equivalent of two traditional credits. A student who takes/passes three blocks is taking/passing the equivalent of six credits. For students taking A/B courses, each course will count as one course.

A subject for which credit has previously been granted may not, if repeated, be used by any student to satisfy the requirements of the VHSL policy. Students must also meet any additional requirements as established by VHSL policy. Information regarding eligibility can be found at www.vhsl.org. Students taking dual enrollment courses should verify their enrollment with their school counselor to ensure eligibility.

NCAA

Students who plan to participate as college freshmen in Division I or II athletic programs must register and be certified by the NCAA (National Collegiate Athletic Association) Eligibility Center. Students should apply online and pay fees.

Important NCAA Note: NCAA eligibility requirements may change annually; therefore, it is imperative that future college athletes read current NCAA materials. See your school counselor for more information. Please check the NCAA website for the most up to date information: NCAA (www.ncaa.org).

GRADING SCALE

The grading system for Botetourt County is both numerical and alphabetical, with alphabetical being used on report cards. This grading scale will be used for all courses including all off-campus program courses.

LETTER GRADE	NUMBER RANGE	QUALITY POINTS	WEIGHTED QUALITY POINTS
A	94-100	4.0	5.0
A-	90-93	3.7	4.7
B+	87-89	3.3	4.3
B	83-86	3.0	4.0
B-	80-82	2.7	3.7
C+	77-79	2.3	3.3
C	73-76	2.0	3.0
C-	70-72	1.7	2.7
D+	67-69	1.3	2.3
D	60-66	1.0	2.0
F	0-59	0.0	0.0

Students in middle school exploratory or reading and mathematics strategies courses will receive an O (90-100), S (70-89), or U (0-69). Students in Pass/Fail courses will receive a P for satisfactory completion of the course and an F if the course requirements are not met.

GRADE POINT AVERAGE

The following guidelines are used to determine a student's GPA:

1. As stated in BCPS School Board Policy IKEB/JO-BR1, high school credit courses taken in the middle school will be counted toward the units needed for graduation from high school. High school credit courses taken in the middle school will not be used in the calculation for GPA. When a student takes a credit-bearing course in middle school, parents/guardians may request that the student's final grade be omitted from his/her high school transcript. Therefore, the course would not count as a high school credit; and the course would need to be retaken in order to receive a standard credit toward graduation. A written request to remove the final grade must be provided to the middle school principal by June 30 of the same academic year in which the course was taken. BCPS Policy: IKEB/JO-BR1
2. Any courses that are graded as Pass or Fail, whether taken at the community college level or at the secondary level, will not be included in the GPA calculation. However, the unit will count toward fulfilling graduation requirements.
3. All credit bearing grades earned in grades 9-12 will be included in GPA calculations. Grade point averages for students will be updated at the end of first semester and at the end of the school year using final grades.
4. The grading scale table indicates the quality points assigned to non-weighted and weighted grades. These values will be used in the GPA calculation. Grades earned from off-campus programs will also be figured into the GPA calculation based on this scale.

SUMMER PROGRAMS FOR REPEAT COURSE WORK AND REMEDIATION

Summer programs may operate for retaking failed courses. Specific course titles and levels will vary based on student need and faculty availability. Remediation programs are also available at the middle and high school level. A summer school fee may be charged for repeat courses; there is no fee for remedial courses that are taken for noncredit. Summer programs usually begin a week after the last day of the school year. Students desiring to repeat failed courses in English, math, science, or social studies in programs outside of BCPS must obtain prior written approval from the building principal.

REPEAT COURSES

Repeating a passed course is designed to meet the needs of students wanting to continue their learning in a content area but may not have the necessary foundation. A student may repeat a course previously taken and passed in order to ensure they have adequately mastered the content. Upon completion of a repeat course, the transcript will reflect both final course grades. The second attempt will be factored into the GPA and count toward credit for graduation. Students should discuss the repeat option with their school counselor and parents before selecting this as an option. Once enrolled in the repeat course, all schedule change procedures will apply.

BOTETOURT COUNTY ADVANCED TRAINING PROGRAMS

Botetourt County Advanced Training Programs prepare students for competitiveness on the global stage by requiring them to think critically and work both independently and as a team member. Advanced training programs foster deeper student interest in career exploration and training of content through applied learning, problem solving, discovery, and student engagement. Students are offered an opportunity to learn through hands-on experiences and specialized training. Many programs offer industry certifications or licensing. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Classes are held at the Botetourt Technical Education Center.

Course descriptions for Botetourt County Advanced Training Programs begin on page 56.

Programs Offered Include:

Aerospace Engineering
Auto Body
Auto Service
Building Trades
Computer Systems Technology
Cosmetology

Criminal Justice
Information Systems Technology
Mechatronics
Nurse Aide
Welding

OFF CAMPUS PROGRAMS

JACKSON RIVER GOVERNOR'S SCHOOL FOR SCIENCE, MATHEMATICS & TECHNOLOGY (JRGS)

High school juniors and seniors in seven school divisions are given the opportunity to participate in an innovative and challenging program of studies in mathematics, science, and technology. JRGS is located on the Mountain Gateway Community College campus and gives students an opportunity to complete research projects, internships, and field trips.

Students should have completed Algebra I & II, Geometry, and Biology with a grade of A or B. While not required, preference will be given to students who have completed Chemistry and Algebra II.

[Please see the Jackson River Governor's School website for more information.](#)

ROANOKE VALLEY GOVERNOR'S SCHOOL FOR SCIENCE & TECHNOLOGY (RVGS)

RVGS is a regional school, which offers area students advanced level courses in math, science, computer applications and technology. Students from Botetourt County attend on a half-day basis. Students are given the opportunity to take advanced and highly integrated courses in such subjects as biology, physics, chemistry, algebra and calculus.

Students in grades eight through eleven are eligible to apply to RVGS. It is strongly recommended that students wishing to be considered for acceptance at RVGS attend an application meeting. **Completion of Algebra I and Geometry are prerequisites.** The program at RVGS is rigorous and prospective students should be highly motivated, creative and have a strong interest in academics.

[Please see the Roanoke Valley Governor's School website for more information.](#)

VIRGINIA WESTERN COMMUNITY COLLEGE REGIONAL ACADEMY (VWCC)

The Regional Academy allows high school students to explore post-secondary specialized programs of study in high demand career fields. Student cohorts from across the region meet daily on the VWCC campus to complete course work that meets the foundational requirements for degree programs often while completing a VWCC Career Studies Certificate or industry credentialing examinations. The curriculum has been designed by experienced community college faculty. Detailed information on programs including prerequisites and required courses can be found on the VWCC Regional Academy programs page at

<https://www.virginiawestern.edu/academics/regional-academy/programs/>

In order to attend, students must:

1. See their school counselor to apply for one of the programs below.
2. Apply to Virginia Western Community College.
3. Successfully meet GPA and/or placement testing requirements.

BCPS VIRTUAL ACADEMY

[BCPS Virtual Academy](#) is available to students in kindergarten through twelfth grade. The academy offers online access to K-12 curriculum and courses that are comparable to courses in the BCPS Program of Studies. Virtual academy students may combine academy courses with in-person courses at the Governor's Schools, community colleges, BTEC, or AP art, band or chorus at the student's home school.

Careful consideration should be given when making the decision to participate in the BCPS Virtual Academy. Virtual academy courses are asynchronous and students must have reliable internet access. Students wishing to participate in online learning are required to register for the virtual academy during the registration period at the home school. Additional meetings and registration paperwork will be required from all students enrolled in the virtual academy.

GUIDELINES FOR SELECTING COURSES

Students are able to select a level of instruction in most core academic high school courses that meets individual academic needs. Registering for a standard academic course or an advanced studies course should be based on a student's motivation, post-secondary and career goals, prior academic performance, standardized test scores, and recommendations from teachers, parents/guardians, and counselors. **It is strongly recommended that prerequisites and course requirements be considered carefully when students are registering for primary course selections and alternates. Changes in initial course selections cannot be made after June 1.**

High school students have the opportunity to earn college credits during high school. Advanced Placement (AP) and dual enrollment (DE) courses are designed for students who wish to accelerate their high school course of study to include courses that may be taken for college credit. These courses are faster paced classes that require in-depth analysis and synthesis of subject matter. These courses are available to all students; however, parents/guardians and students should be aware of the nature of these courses and that inadequate preparation may limit a student's success in the course.

Note: BCPS advanced studies courses are equivalent to honors courses recognized by the Virginia Department of Education.

COLLEGE LEVEL/DUAL ENROLLMENT

Students have the opportunity to enroll in courses for which they will receive high school and college credit. **BCPS will grant high school credit for dual enrollment courses that are part of a specialty program, fulfill a General Education Certificate or an Associate Degree.**

Students are dual enrolled in BCPS and Mountain Gateway Community College or Virginia Western Community College. Dual enrolled courses are available to all students on the campus of MGCC or VWCC. Parents/guardians and students should be aware of the rigorous nature of these courses and that inadequate preparation for a college level course could adversely affect their college and high school transcript and ability to apply for financial aid. Parents/guardians and students are encouraged to contact post-secondary institutions to inquire how specific courses and degrees may transfer.

The tuition rates and fees are determined by the community college. Students who elect to enroll in dual enrollment courses will be required to pay the tuition rate that is established by the community college (Policy JN-BR3). Additionally, students are expected to purchase all textbooks and materials required by the community college for dual enrollment courses (Policy JN-BR1). Students will be billed directly by the community college for any fees or tuition associated with dual enrollment courses. **Dual enrollment tuition for courses taken at BTEC, JRHS or LBHS must be paid to the high school in which the course is offered on or before the first Friday of the full week of school.**

Virginia House Bill 1184 (HB1184)

HB1184 provides a pathway for students to complete an Associate's Degree or a one-year Uniform Certificate of General Studies from a community college concurrent with a high school diploma. Please see the community college websites or your school counselor for more information on HB1184.

Prerequisites for Dual Enrollment Courses

Students electing to take a course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements. Scores from SAT, PSAT, ACT and/or the Algebra I SOL may be used to qualify. See your school counselor for more information.

INDEPENDENT STUDY

The Independent Study Program provides juniors and seniors an opportunity to pursue a program of their own design in an area of special interest. The independent study may not be the equivalent of any course offered as part of the program of studies. Students receive one credit for course requirements equivalent to 140 hours of study and successful completion of a capstone project. Weighted credit will not be given. Students must have at least a 3.0 GPA and submit an application for approval during the course registration process. Enrollment is granted after the independent study committee approves the student application. All enrollments must be completed by July 1. Students interested in participating in the Independent Study Program should coordinate with their school counselor, select an advisor, develop a proposal, and complete the online application form linked below:

Independent Study Application

VIRTUAL VIRGINIA (VVA)

Virginia Department of Education's (VDOE) Virtual Virginia program offers online Advanced Placement (AP), world language, core academic, and elective courses to students throughout the Commonwealth and nation. Virtual Virginia is committed to providing high-quality, rigorous course content with the flexibility to meet schools' and students' varied schedules. BCPS students may access Virtual Virginia courses that are not available in-person in the home school. Virtual Virginia may be used to resolve scheduling conflicts. Students are enrolled in Virtual Virginia courses on a space available basis.

Parents/guardians and students should be aware of the rigorous nature of these courses and that inadequate preparation for a Virtual Virginia course could adversely affect their high school transcript. Eligible students enroll in Virtual Virginia through their local schools by deadlines set forth by the Virginia Department of Education. Please see your school counselor for a list of available courses or visit <http://www.virtualvirginia.org> for the most current list of offerings.

SPECIAL EDUCATION

Special education services and related services are provided to all eligible students with disabilities. Special education services are provided to students who meet eligibility criteria under the provisions of the Individuals with Disabilities Education Improvement Act (IDEIA) in the areas of autism, deaf-blindness, deafness, developmental delay, hearing impairment, intellectual disability, multiple disabilities, orthopedic impairment, other health impairment, emotional disability, specific learning disability, speech or language impairment, traumatic brain injury or visual impairment including blindness. Related services are available to assist eligible students who require such services in order to receive benefit from their special education. Related services include but are not limited to the following: counseling, interpreting services, orientation and mobility services, occupational therapy, physical therapy, speech therapy, and special transportation. Eligible students with disabilities may receive a free and appropriate public education until graduation with a Standard or Advanced Diploma or until age 22.

Individualized Education Program (IEP): An IEP is developed for students who are eligible for special education and related services, and it is designed to meet each student's unique needs. The IEP team works collaboratively to determine the nature, level and environment(s) for service delivery. All special education and related services are provided in the least restrictive environment(s) as determined by the IEP team.

Section 504: Students with a qualifying disability may be eligible to receive accommodations and/or related services under Section 504 if they are found to have a physical or mental impairment that substantially limits one or more major life activities. A Section 504 Plan is developed for eligible students with a qualifying disability.

Information about special education services is available from your child's principal, case manager or the supervisor of special education at 540-473-8263.

CREDIT ACCOMMODATIONS

Credit accommodations provide alternatives for students with disabilities in earning the standard and verified credits required to graduate with a Standard Diploma. While credit accommodations provide alternate pathways and flexibility, students receiving accommodations must earn the 26 standard credits and specified number of verified credits required to graduate with a Standard Diploma. Please reference the graduation requirements section of this guide for more detailed information. Credit accommodations for students with disabilities may include:

- a) Alternative courses to meet the standard credit requirements.
- b) Modifications to the requirements for locally awarded verified credits.
- c) Additional tests approved by the Board of Education for earning verified credits.
- d) Adjusted cut scores on tests for earning verified credits.
- e) Allowance of work-based learning experiences through career and technical education (CTE) courses.

Eligibility Criteria: Credit accommodations for the Standard Diploma shall be determined by the student's Individualized Education Program (IEP) team or Section 504 committee, including the student where appropriate, at any point after the student's eighth-grade year. The school must secure the informed written consent of the parent/guardian and the student, as appropriate, to choose credit accommodations after review of the student's academic history and full disclosure of the student's options. For more information, please see the student's school counselor or case manager.

The student must meet the following criteria to be eligible to receive credit accommodations for the Standard Diploma:

- a) Student must have a current IEP or 504 plan with standards-based content goals.
Student has a disability that precludes him or her from achieving and progressing commensurate with grade level

expectations, but is learning on grade level content.

- b) Student needs significant instructional supports to access grade level Standards of Learning (SOL) content and to show progress.
- c) Based on multiple objective measures of past performance, student might not be expected to achieve the required standard and verified units of credit within the standard time frame.

OTHER DIPLOMA OPTIONS FOR STUDENTS WITH DISABILITIES

Applied Studies Diploma:

This diploma is available to students with disabilities who complete the requirements of their Individualized Education Program (IEP) and who do not meet the requirements for other diplomas.

ACADEMIC AND CAREER PLANNING

ACADEMIC AND CAREER PLAN (ACP) and ACADEMIC AND CAREER PLAN PORTFOLIO (ACPP)

Career planning for all students is a component of the Botetourt County Schools Counseling Program in conjunction with the Career and Technical Education (CTE) Department. Career awareness activities begin in elementary school followed by career exploration during middle school and high school. Career education is important since many occupations require some post-secondary education and/or training for successful employment.

Beginning in the elementary school years, students are to explore the different occupations associated with career clusters and select an area or areas of interest. Students shall begin the development of an academic and career plan portfolio (ACPP) in elementary grades to include information about interests, values such as dependability and responsibility, and skills supporting decisions about their future interests and goals. The ACPP is a repository for planning notes, class projects, interest inventory results, awards and recognitions, and other information related to academic and career plans and preparation. The ACPP is student led and updated and revised as the student continues to plan for the student's future throughout school years. The information contained in the ACPP shall serve as the foundation for creating the ACP in grade 7 (8VAC20-131-140).

Helping students prepare for their career or academic life after high school is a critical element of the secondary program. Virginia Board of Education regulations require the development of a written personal Academic and Career Plan (ACP) for **each seventh-grade student**. The purpose of this plan is to help students set goals to be used as a guide toward postsecondary success. The ACP is student-driven and developed, reviewed, and revised in collaboration with parents/guardians, counselors, and CTE teachers. Each student's ACP is reviewed before entering the ninth and eleventh grades with revisions made as necessary at those times.

Students in grades six through twelve have access to the [MajorClarity](#) platform which is where the ACP plan is developed. MajorClarity unifies teaching, counseling, and career readiness to make it easier for students to complete and change their ACP plan. Students are able to explore different careers and areas of interest in order to identify the type of career which best suits their interest and abilities. Parents/guardians and counselors can use the results from student simulations to help determine how best to advise students on career pathways. MajorClarity also provides post-secondary exploration of colleges and universities as well as scholarship links and resume building for enhancing student portfolios.

For more information about the courses that are aligned with certain career clusters, see the section Course and Career Cluster Alignment on the next page.

CAREER EXPLORATION RESOURCES	POST-SECONDARY EMPLOYMENT RESOURCES	POST-SECONDARY EDUCATION RESOURCES
Virginia Career View www.vaview.net	Virginia Employment Commission www.vec.virginia.gov	Educational Credit Management Corporation www.ecmc.org
Virginia Education Wizard www.vawizard.org	Career Builder www.careerbuilder.com	State Council of Higher Education for Virginia www.schev.edu
Virginia CTE Resource Center www.cterresource.org	Employment Guide www.employmentguide.com	Big Future www.bigfuture.collegeboard.org
MajorClarity www.majorclarity.com		Transfer Virginia www.transfervirginia.org

COURSE AND CAREER CLUSTER ALIGNMENT

Agriculture, Food & Natural Resources

Agricultural Management
Agricultural Production
Agriculture Systems
Be Your Own Boss
Biology Electives
Farm to Table
Health and PE Electives
Introduction to Agriculture
Leadership Development
Operating the Farm Business
Small Engine Repair I & II
Veterinary Technology

Architecture & Construction

Art Electives
Be Your Own Boss
Building Trades I & II
Creative Writing I-IV
Health and Physical Education Electives
Leadership Development
Small Engine Repair I & II

Arts, Audiovisual Technology & Communications

Art Electives
Band Electives
Be Your Own Boss
Choir Electives
Creative Writing I-IV
Digital Journalism
Intro to Fashion Design
Introduction to Interior Design
Leadership Development
Literature Through Film
Microsoft Office
Multimedia Web Design
Photojournalism I-VIII

Please see the the VDOE website for more information on career clusters.

Business Management & Administration

Accounting
American Conflicts
Art Electives
Be Your Own Boss
Biology Electives
Creative Writing I-IV
Digital Journalism
Econ and Personal Finance
Health and PE Electives
International Relations
Leadership Development
Literature Through Film
Medical Terminology
Microsoft Office
Photojournalism I-VIII
Principles of Business & Marketing
World Religions and Conflicts
VA Teachers for Tomorrow

Education & Training

Band Electives
Be Your Own Boss
Choir Electives
Creative Writing I-IV
Early Childhood Development
Health and PE
Leadership Development
Literature Through Film
Small Engine Repair I & II
VA Teachers for Tomorrow

Finance

Accounting
Be Your Own Boss
Creative Writing I-IV
Econ and Personal Finance
Leadership Development
Principles of Business & Marketing

Government & Public Administration

Accounting
American Conflicts
Be Your Own Boss
Biology Electives
Digital Journalism
Econ and Personal Finance
World Language Electives
Health and PE Electives
International Relations
Leadership Development
Photojournalism I-VIII
World Religions and Conflicts

Health Science

Biology Electives
Creative Writing I-IV
Health and PE Electives
Leadership Development
Literature through Film
Medical Terminology
Nurse Aide I & II
Psychology and/or Sociology
VA Teachers for Tomorrow
World Religions and Conflicts

Hospitality & Tourism

Art Electives
Band Electives
Be Your Own Boss
Choir Electives
Creative Writing I-IV
Digital Journalism
Health and PE Electives
Introduction to Culinary Arts
Leadership Development
Photojournalism I-VIII
Marketing Electives
World Religions and Conflicts

Human Services

Be Your Own Boss
Biology Electives
Cosmetology I & II
Creative Writing I-IV
Health and PE Electives
Individual Development & Relationships
Leadership Development
Medical Terminology
Microsoft Office
Nutrition and Wellness
Photojournalism I-VIII
Psychology and/or Sociology
Real Life 101
VA Teachers for Tomorrow
World Religions and Conflicts

Information Technology (IT)

Advanced Mathematics
Art Electives
Be Your Own Boss
Computer Applications
Computer and/or Information Systems Technology I II & III
Creative Writing I-IV
Digital Journalism
Multimedia Web Design

Law, Public Safety, Corrections & Security

Be Your Own Boss
Biology Electives
Creative Writing I-IV
Criminal Justice I & II
Leadership Development
Literature Through Film
World Religions and Conflicts

Manufacturing

Be Your Own Boss
Biology Electives
Engineering/Mechatronics
Leadership Development
Mechatronics
Welding I, II, and III

Marketing

Art Electives
Band Electives
Be Your Own Boss
Creative Writing I-IV
Digital Journalism
Introduction to Fashion Design and Marketing
Literature through Film
Marketing
Microsoft Office
Photojournalism I-VII
Principles of Business and Marketing

Transportation, Distribution & Logistics

Accounting
Aerospace Technology
Auto Body Technology I - III
Auto Service Technology I-III
Be Your Own Boss
Creative Writing I-IV
Leadership Development
Marketing
Microsoft Office

Science, Technology, Engineering and Math

Aerospace Technology
Biology Electives
Computer and/or Information Systems Technology I - III
Creative Writing I-IV
Digital Journalism
Engineering/Mechatronics
Microsoft Office
Multimedia Web Design
Photojournalism I-VIII
Veterinary Technology

TIMELINE FOR POST-SECONDARY EDUCATIONAL PLANNING: MIDDLE SCHOOL		
GRADE 6	GRADE 7	GRADE 8
Take all classwork, projects, tests, and SOL assessments seriously. Develop an awareness of personal abilities, skills, interests, and motivations. Become aware of the need to balance work and leisure time. Learn to work cooperatively with others as a team member. Talk with parent/guardian, teachers, and counselors about required courses and electives for graduation. Take advantage of extra-curricular and volunteer activities and record those experiences in a folder at home.	Take all classwork, projects, tests, and SOL assessments seriously. Develop an understanding of the relationship between educational achievement and career success. Recognize that there is a connection between school subjects and careers. Acquire information about educational, vocational, and technical training opportunities within and beyond high school. Talk with parent/guardian, teachers, and counselors about course requirements for graduation. Begin to explore areas of interest through elective courses. Become involved in school and community activities and keep a detailed list of accomplishments and activities. Work with your counselor, teachers, and parents/guardians to develop your Academic and Career Plan (ACP).	Take all classwork, projects, tests, and SOL assessments seriously. Develop skills to locate, evaluate, and interpret career information. Identify personal preferences and interests, which influence career choices and success. When you register for high school, listen to the advice of your teachers, parents/guardians, and counselors. Explore post-secondary education opportunities, investigate several careers and determine entrance/training requirements to help you with your four-year plan for high school. Be involved in school and community activities and keep a detailed list of accomplishments and activities. Review your ACP and develop a tentative four-year plan for your high school years.

SAMPLE MIDDLE SCHOOL COURSE OF STUDY			
	GRADE 6	GRADE 7	GRADE 8
Core Curriculum	English Mathematics Science U.S. History I Physical Education/Health	English Mathematics Life Science U.S. History II Physical Education/Health	English Mathematics Physical Science Civics & Economics Physical Education/Health
Electives	Band Chorus Exploratory 6	Band Chorus Exploratory 7	Band Chorus French I Spanish I Other school specific electives

TIMELINE FOR CAREER PLANNING: HIGH SCHOOL

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Update your ACP using MajorClarity and review with parents/guardians. Explore enrichment opportunities in the community. Get to know your counselor. Visit colleges and post-secondary institutions. Start career exploration activities. Be involved in school and community activities. Keep a list of accomplishments and activities on your ACP.	Update your ACP using MajorClarity and review with parents/guardians. 10th graders who completed Geometry in 9th consider taking the PSAT. Visit colleges, post-secondary institutions, and/or places of future employment. Consider Career and Technical Education programs. Be involved in school and community activities. Keep a list of accomplishments and activities on your ACP. Learn about Advanced Placement and Dual Enrollment courses.	Update your ACP using MajorClarity and review with parents/guardians. Take PSAT in October. Attend Financial Aid Workshop and learn about FAFSA. In the spring, take SAT and ACT if planning to apply to college. Develop a list of post-secondary institutions and visit these institutions. Begin a list of contact persons for future employment and references. Become aware of scholarship opportunities. Be involved in school and community activities. Keep a list of accomplishments and activities on your ACP. Consider Advanced Placement or Dual Enrollment courses. Register with the NCAA eligibility center if applying for an athletic scholarship and your plans include playing in a Division I or II program.	Update your ACP using MajorClarity and review with parents/guardians. In the fall, take SAT and ACT as required by the colleges of which you plan to apply. Send results to four colleges of your choice. Develop your resume and give a copy to your school counselor. Visit colleges on your list of final choices; schedule visits through the college admissions office. Narrow your list of post-secondary choices. Apply to colleges and/or post-secondary programs. Attend Financial Aid workshop and complete financial aid forms required by your college with your parents/guardians. Be aware of and meet deadlines. Research jobs. Apply for employment. Be involved in school and community activities. Update list of accomplishments and activities on your ACP. Apply for scholarships.

**SAMPLE FOUR YEAR PLAN OF STUDY
STANDARD DIPLOMA**

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Sample 1 Standard Diploma BTEC Emphasis	English 9 or English 9 AS WH I or WH I AS Algebra I Part I Algebra I Part II Environmental Science PE/Health 9 Elective (2)	English 10 or English 10 AS Geometry Earth Science PE/Driver's Education 10 Elective (2) BTEC Year I (2 Blocks)	English 11 or English 11 AS/AP/DE Virginia and U.S. History AS/AP/DE AFDA (or 3rd math) Biology I BTEC Year II (4 Blocks)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE Economics and Personal Finance Elective (1) Apprenticeship (4)
Sample 2 Standard Diploma Fine Arts Emphasis	English 9 or English 9 AS WH I or WH I AS Algebra I Earth Science PE/Health 9 Elective (2) Fine Arts Year I Course	English 10 or English 10 AS Geometry or Geometry AS Biology I or Biology I AS PE/Driver's Education 10 Elective (3) Fine Arts Year II Course	English 11 or English 11 AS/AP/DE Virginia and U.S. History AS/AP/DE AFDA (or 3rd math) AFDA (or 3rd math) Biology II: Ecology (or 3rd science) Elective (2) Fine Arts Year III Courses (2 Blocks)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE Economics and Personal Finance Electives (3) Fine Arts Year IV Courses (2 Blocks)
Sample 3 Standard Diploma General Studies Emphasis	English 9 or English 9 AS WH I or WH I AS Algebra I Environmental Science PE/Health 9 Electives (3)	English 10 or English 10 AS Geometry or Geometry AS Biology I or Biology I AS PE/Driver's Ed 10 Electives (4)	English 11 or English 11 AS/AP/DE Virginia and U.S. History AS/AP/DE Algebra II or Algebra II AS (or 3rd math) Biology II: Ecology (or 3rd science) Economics and Personal Finance Electives (3)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE Electives (6)

AS – Advanced Studies

DE – Dual Enrollment

AP – Advanced Placement

- Courses in **bold print** are required courses.
- In addition to Economics and Personal Finance, students are required to take a Fine Arts/CTE course.
- Electives may include Fine Arts, CTE, BTEC, and/or world language courses. Electives may also include additional academic area courses above what is required for the standard diploma.

SAMPLE FOUR YEAR PLAN OF STUDY – ADVANCED STUDIES DIPLOMA

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Sample 1 Advanced Diploma Engineering/Mechatronics Emphasis	English 9 or English 9 AS WH I or WH I AS Geometry AS PE/Health 9 Spanish/French II Biology I or Biology I AS BTEC Engineering/Mechatronics Program Year I (2 Blocks) <i>*Assuming Spanish/French I and Algebra were taken at the middle school.</i>	English 10 or English 10 AS WH II AS Algebra II or Algebra II AS Chemistry PE/Driver's Education 10 Econ and Personal Finance BTEC Engineering/Mechatronics Program Year II (2 Blocks)	English 11 or English 11 AS/AP/DE VA and U.S. History AS/AP/DE Precalculus with Trig (or 4th math) Physics Electives (2) BTEC Mechatronics (2 Blocks) or VWCC Engineering Program Year III (4 Blocks)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE AP Calculus AP Environmental Science (or 4th Science) BTEC Mechatronics (4 Blocks) or VWCC Engineering Program Year IV (4 Blocks)
Sample 2 Advanced Diploma Roanoke Valley Governor's School Emphasis	English 9 or English 9 AS WH I or WH I AS PE/Health 9 Spanish/French II Governor's School Year I (4 blocks)	English 10 or English 10 AS WH II AS PE/Driver's Education 10 Spanish/French III Governor's School Year II (4 blocks)	English 11 or English 11 AS/AP/DE VA and U.S. History AS/AP/DE Econ and Personal Finance Elective Governor's School Year III (4 blocks)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE Fine Arts/CTE Elective Elective Governor's School Year IV (4 blocks) <i>*All math and science courses taken at Governor's School.</i>
Sample 3 Advanced Diploma General Studies/BTEC Emphasis	English 9 or English 9 AS WH I or WH I AS Algebra Earth Science or Earth Science AS PE/Health 9 Spanish/French I Electives (2)	English 10 or English 10 AS WH II AS Geometry or Geometry AS Biology I or Biology I AS PE/Driver's Education 10 Spanish/French II and III Electives (1)	English 11 or English 11 AS/AP/DE VA and U.S. History AS/AP/DE Algebra II or Algebra II AS (or 3rd math) Chemistry (or 3rd science) Electives (4)	English 12 or English 12 AS/AP/DE VA and U.S. Government AS/AP/DE Statistical Reasoning (or 4th math) Biology II: Anatomy (or 4th science) Econ and Personal Finance Electives (3)

AS – Advanced Studies

DE – Dual Enrollment

AP – Advanced Placement

- Courses in **bold print** are required courses.
- In addition to Economics and Personal Finance, students are required to take a Fine Arts/CTE course.
- Electives may include Fine Arts, CTE, BTEC, and/or world language courses. Electives may also include additional academic area courses above what is required for the standard diploma.

MIDDLE SCHOOL COURSE DESCRIPTIONS

ENGLISH

ENGLISH 6 (1109)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: English 6 covers all areas of the Virginia English Standards of Learning. A student will study strategies for planning, drafting, revising, and editing a variety of written work. In addition, the student will have the opportunity to develop skills and strategies for group communication, vocabulary development, and the comprehension of fiction, informational, and nonfiction text. **Students are required to take the Reading 6 Standards of Learning (SOL) Test.**

ENGLISH 6 ADVANCED STUDIES (1108)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Prerequisite(s): Students must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include performance on the division 5th grade writing prompt, grade 5 language arts semester average, GRADE test performance score, language arts teacher recommendation and final grade from 4th grade language arts course.

Course Description: This course is for students who excel in the area of English (reading and writing). This is a challenging course that emphasizes written communication and critical reading of both fiction and non-fiction text. **Students are required to take the Reading 6 Standards of Learning (SOL) Test.**

ENGLISH 7 (1110)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: English 7 covers all areas of the Virginia English Standards of Learning. Students will study how to refine their use of strategies for planning, drafting, revising, and editing a variety of written work. In addition, students will have the opportunity to increase their skills and use of strategies for group communication, vocabulary development, and the comprehension of fiction, informational, and nonfiction text. **Students are required to take the Reading 7 Standards of Learning (SOL) Test.**

ENGLISH 7 ADVANCED STUDIES (1111)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Prerequisite(s): Students must have completed English 6 Advanced Studies with a "C" or better or must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include English 6 semester average, Grade 6 SOL Reading test score, and English 6 teacher recommendation.

Course Description: This course is for students who excel in the area of English (reading and writing). This is a challenging course that emphasizes written communication and critical reading of both fiction and non-fiction text. **Students are required to take the Reading 7 Standards of Learning (SOL) Test.**

ENGLISH 8 (1120)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: English 8 focuses on developing interviewing techniques, word analysis and usage selections, evaluation of various literary forms and the writing process. **Students are required to take the Reading 8 and Writing 8 Standards of Learning (SOL) Tests.**

ENGLISH 8 ADVANCED STUDIES (1119)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Prerequisite(s): Students must have completed English 7 Advanced Studies with a "C" or better or must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include English 7 semester average, Grade 7 SOL Reading test score, and English 7 teacher recommendation.

Course Description: This course is for students who excel in the area of English (reading and writing). This is a challenging course that emphasizes written communication and critical reading of both fiction and non-fiction text. **Students are required to take the Reading 8 and Writing 8 Standards of Learning (SOL) Tests.**

LITERACY STRATEGIES (9710 - GRADE 6, 9711 - GRADE 7, 9712- GRADE 8)

Offered: CAMS, RMMS

Grade Level: 6, 7, 8

Credit: None

Course Description: This course is designed to provide students with direct instruction in a variety of research based learning strategies specifically created for increasing reading comprehension, decoding skills, and performance in the area of writing including sentence structure, grammar, paragraph structure, and essays.

HISTORY/SOCIAL SCIENCES

U.S. HISTORY TO 1865 (2353)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: Students will use skills of historical and geographical analysis to explore the early history of the United States. Students will study the ideas and events that strengthened the union, and learn fundamental concepts in civics, economics, and geography. Students will study primary and secondary sources that laid the foundation of American ideals and institutions, as well as the everyday life of people at different times in this country's history. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) assessment.**

U.S. HISTORY – 1865 TO PRESENT (2354)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Students will continue to use skills of historical and geographical analysis as they examine American history since 1865. Students will continue to study fundamental concepts in civics, economics, and geography within the context of United States history. Political, economic, and social challenges facing the nation reunited after civil war will be examined as students develop an understanding of how the American experience shaped the world's political and economic landscape. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) assessment.**

CIVICS/ECONOMICS 8 (2357)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Civics/Economics 8 is the study of the structure and function of the local, state, and federal governments through the U.S. and Virginia Constitutions. Students will also study the basic structure and function of the U.S. economy. **Students are required to take the Civics/Economics 8 Standards of Learning (SOL) Test.**

MATHEMATICS

MATHEMATICS 6 (3110)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: Mathematics 6 emphasizes the study of whole numbers, decimals and fractions. Students will compare data sets, make measurement system conversions, make geometric constructions, classify three-dimensional figures, and solve linear equations with one variable. The development of problem-solving skills will be integrated. **Students are required to take the Mathematics 6 Standards of Learning (SOL) Test.**

MATHEMATICS 6 ADVANCED STUDIES (3113)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Prerequisite(s): Students must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include final grades from Math 4 and Math 5, SOL test scores from Math 4 and Math 5, and math teacher recommendation.

Course Description: This course is for students who excel in their understanding of mathematics. This is a fast-paced and challenging course that combines the sixth and some elements of the seventh grade curriculum into one year of study. **Students are required to take the Mathematics 6 Standards of Learning (SOL) Test.**

MATHEMATICS 7 (3111)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Mathematics 7 emphasizes problem solving including consumer application and proportional reasoning problems. The student will use the properties of real numbers and theories of probability to solve linear equations and inequalities, and use data analysis make inferences and predictions. The student will apply transformations to geometric figures and find area, surface area, and volume of geometric figures. **Students are required to take the Mathematics 7 Standards of Learning (SOL) Test.**

MATHEMATICS 7 ADVANCED STUDIES (3114)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Prerequisite(s): Students must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include final grade from Math 5 and Math 6, SOL test score from Math 5 and Math 6, and math teacher recommendation.

Course Description: This course is for students who excel in their understanding of mathematics. This is a fast-paced and challenging course that extends the study of the Math 7 SOLs. **Students are required to take the Mathematics 7 Standards of Learning (SOL) Test.**

MATHEMATICS 8 PRE-ALGEBRA (3112)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Mathematics 8 is a course designed to prepare students for Algebra I. Students will study number theory, equations, the real number system, probability and statistics, solving multi-step equations, graphing linear equations, and using matrices to organize and interpret data. **Students are required to take the Mathematics 8 Standards of Learning (SOL) Test.**

ALGEBRA I (3130)

Offered: CAMS, RMMS

Grade Level(s): 7, 8

Credit: 1 - High School

Prerequisite(s) Grade 7: Students must meet the benchmark score on the division's qualifying rubric and must have successfully completed Math 6 Advanced Studies. The elements of the rubric may include the final grade from Math 5, SOL mathematics test score from Grade 5, Orleans-Hanna test score, and math teacher recommendation.

Prerequisite(s) Grade 8: Students must meet the benchmark score on the division's qualifying rubric. The elements of the rubric may include the final math grade from grades 6 and 7, SOL mathematics test score from Grade 6 and 7, Orleans-Hanna test score, and math teacher recommendation.

Course Description: Algebra I includes the study of functions, equations, inequalities, polynomials, radicals, and other related algebraic topics. The course is designed for students who are proficient in pre-algebra skills and are ready for Algebra I as a year-long course.

Students are required to take the Algebra I Standards of Learning (SOL) Test.

GEOMETRY ADVANCED STUDIES (3149)

Offered: CAMS, RMMS

Grade Level: 8

Credit: 1 - High School

Prerequisite(s): Final grade of "C" or better in Algebra I

Course Description: Geometry Advanced Studies covers the Geometry curriculum at a fast pace and includes selected trigonometry topics. It is a rigorous study of the theory and structure of geometric concepts and has an increased emphasis on formal proofs and creative applications of concepts. This course will have a STEM Research focus designed to provide students with real-world problem-solving skills and an opportunity to work cooperatively with other students, teachers and members of the community. This is a high school credit-bearing course. **Students are required to take the Geometry Standards of Learning (SOL) Test.**

MATH STRATEGIES (9706 - GRADE 6, 9707- GRADE 7, 9708- GRADE 8)

Offered: CAMS, RMMS

Grade Level: 6, 7, 8

Credit: None

Course Description: This course is designed to provide students with direct instruction in a variety of research-based strategies specifically created for mathematics. Focus will be on computation and problem solving.

SCIENCE

SCIENCE 6 (4105)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: Science 6 focuses on Earth's systems, water in the environment, air and atmosphere, basic chemistry concepts, and the solar system. Students continue to develop process skills with an emphasis on experimental design and problem solving using the scientific method.

LIFE SCIENCE 7 (4115)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Life Science 7 is a practical study of the features and functions of living things. Current environmental issues are emphasized as the program strives to develop an awareness of living things, the processes that support life, and the relationships among organisms. Activities, labs, class discussions, and questions and answers reinforce scientific methods and principles.

PHYSICAL SCIENCE 8 (4125)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Physical Science 8 focuses on physics and chemistry. The physics topics include work, force, motion, simple machines, sound, light, electricity, and magnetism. The chemistry topics consist of the nature and structure of matter, atomic theory, and the periodic table. Students are expected to plan and conduct investigations using accepted scientific methods. **Students are required to take the Physical Science 8 Standards of Learning (SOL) Test.**

FINE ARTS

BAND 6 (9230)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: No experience is necessary. However, to take this course students must have an instrument. Instruments may be rented or purchased through local music stores. Beginning band introduces all the "basics" of learning to read music and to play an instrument. Students should discuss with the band director their instrument choice prior to enrollment. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

BAND 7 (9231)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Band 7 is offered to seventh-grade students who have prior instrumental music experience. Group participation culminates in performances for the public and student body. The band builds skills crucial to the continued development of the young musician. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

BAND 8 (9232)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Band 8 is designed for students who have two years of prior instrumental music experience. The class includes theory, performances, basic scales, and interpretation. Membership in this class is recommended for membership in Botetourt County's high school bands. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

JAZZ BAND 8 (9249)

Offered: RMMS

Grade Level: 8

Credit: None

Course Description: Jazz Band 8 is open to eighth grade band students who have had two prior years of instrumental music. The class includes jazz theory, scales, chords, improvisation, history and performances. The students also have the opportunity to play piano, bass guitar, guitar and drum set.

CHORUS 6 (9269)

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: Chorus 6 focuses on a variety of choral music. Students will learn basic theory, music history, and how to achieve a good vocal sound. Opportunities for performance are given each semester.

CHORUS 7 (9270)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Chorus 7 continues with a variety of music sung in unison, two-parts and three-parts. Students review choral techniques and expand their knowledge of music theory and history. Opportunities for performance are given each semester.

CHORUS 8 (9260)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Chorus 8 incorporates choral techniques, two- and three-part music, and performance of music from various style periods. Students work to achieve balance and blend in a group performance as well as develop sight-reading skills. Opportunities for performance are given each semester. Students are encouraged to participate in Junior High Districts and All County Chorus.

WORLD LANGUAGES**FRENCH I (5110)**

Offered: CAMS, RMMS

Grade Level: 8

Credit: 1 - High School

Prerequisite(s): Final grade of "B" in English 7 and teacher recommendation.

Course Description: French I introduces students to the study of a modern world language. Students learn to understand basic spoken French, to speak basic French using acceptable pronunciation, to read basic French and to write basic French. Students also acquire a general knowledge of geography, history and culture of French-speaking people. This is a high school credit-bearing course.

SPANISH I (5510)

Offered: CAMS, RMMS

Grade Level: 8

Credit: 1 - High School

Prerequisite(s): Final grade of "B" in English 7 and teacher recommendation.

Course Description: Spanish I introduces students to the study of a modern world language. Students learn to understand basic spoken Spanish, to speak basic Spanish using acceptable pronunciation, and to read and write basic Spanish. Students also acquire a general knowledge of the geography, history, and culture of Hispanic people. This is a high school credit-bearing course.

HEALTH AND PHYSICAL EDUCATION**PHYSICAL EDUCATION/HEALTH 6 (7110)**

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: Physical Education 6 places emphasis on introduction to skilled combination activities, along with lifetime and recreational activities. These are centered on fitness and game skills. Health topics include health triangle, Too Good For Drugs, Body Systems and Family Life Education.

PHYSICAL EDUCATION/HEALTH 7 (7120)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: Physical Education 7 consists of students participating in a variety of individual and team sports. Students will also participate in lifetime and recreational activities. Health topics include community health, nutrition, fitness, Too Good For Drugs, and Family Life Education.

PHYSICAL EDUCATION/HEALTH 8 (7200)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: In Physical Education 8 class, major emphasis is placed on the development and maintenance of fitness through participation in individual and team sports, along with lifetime and recreational activities. The health program emphasizes communicable and noncommunicable diseases, Too Good For Drugs, Mental Health and Family Life Education.

MIDDLE SCHOOL EXPLORATORY/ELECTIVES**EXPLORATORY 6 (6900)**

Offered: CAMS, RMMS

Grade Level: 6

Credit: None

Course Description: This course is designed to give students exposure to multiple areas. Through the school year, students rotate through various exploratory programs. Areas of exploration may include the following: Agriscience, Art, World Cultures, Technology Education, Computer Application/Keyboarding, Family and Consumer Science, and Music.

EXPLORATORY 7 (6910)

Offered: CAMS, RMMS

Grade Level: 7

Credit: None

Course Description: This course is designed to give students exposure to multiple areas. Through the school year, students rotate through various exploratory programs. Those programs may include the following: Agriscience, Art, World Cultures, Technology Education, Family and Consumer Science, Music, and Career Investigations. The content within each area of exploration will differ from the content covered in Grade 6.

ELECTIVES 8 (6920)

Offered: CAMS, RMMS

Grade Level: 8

Credit: None

Course Description: Students have the option to select elective courses. Those courses may include the following: Agriscience, Art, Band, Chorus, World Cultures, Technology Education, Business Education, Virginia Teachers for Tomorrow and Music.

MIDDLE SCHOOL GIFTED EDUCATION

At the middle school level, gifted learners have the opportunity to participate in an advanced level English or mathematics class where the curriculum is compacted with enrichment and extension opportunities woven into each unit of study.

Gifted resource teachers collaborate with classroom teachers to design and implement opportunities for differentiated instruction. These opportunities include pre-assessment activities, which lead to integrative, challenging units of study. The gifted resource teacher provides research-based units of study, resources to support these units, co-teaching, and collaboration to support the unique needs of all learners.

HIGH SCHOOL COURSE DESCRIPTIONS

Note: *w* indicates the course is a weighted course

ENGLISH

ENGLISH 9 (1130)

Offered: JR, LB

Grade Level: 9

Credit: 1

Prerequisite(s): Completion of English 8

Course Description: In English 9, students will study those skills set forth in Virginia's Standards of Learning for the ninth grade. Students will develop the reading, writing, and research skills necessary to make the transition to post-secondary education and the work force. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 9 ADVANCED STUDIES (1131)

Offered: JR, LB

Grade Level: 9

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in English 8.

Course Description: The intent of this course is to prepare students for advanced studies and advanced placement English courses. Successful completion of the course requires students to accept the demands of independent, challenging reading, writing, and research assignments based on higher level thinking skills. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 10 (1140)

Offered: JR, LB

Grade Level: 10

Credit: 1

Prerequisite(s): Completion of English 9

Course Description: The intent of English 10 is to help students develop the reading, writing, and research skills necessary to make the transition to post-secondary education and the work force. Students will study those skills set forth in Virginia's Standards of Learning for the tenth grade. To refine fundamental research skills, students will complete research papers or projects. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 10 ADVANCED STUDIES (1141)

Offered: JR, LB

Grade Level: 10

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in English 9.

Course Description: The intent of this course is to prepare students for advanced studies and advanced placement English courses. Successful completion of the course requires students to accept the demands of independent, challenging reading and writing assignments based on higher level thinking skills. Students will write a formal research paper. **A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 11 (1150)

Offered: JR, LB

Grade Level: 11

Credit: 1

Prerequisite(s): Completion of English 10

Course Description: Students will study those skills set forth in Virginia's Standards of Learning for the eleventh grade. The student will develop the skills to present and analyze persuasive oral presentations, write a variety of reports, and study American literature. **Students are required to take the English 11 Reading Standards of Learning (SOL) test. A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 11 ADVANCED STUDIES (1151)

Offered: JR, LB

Grade Level: 11

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 10.

Course Description: The intent of this course is to prepare students for advanced studies or advanced placement English courses. In English 11 Advanced Studies students will develop the reading, writing, and research skills necessary to make a successful transition to a post-secondary educational institution. **Students are required to take the English 11 Reading Standards of Learning (SOL) test. A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 11: COLLEGE COMPOSITION I & II (1601, 1601D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level: 11

Credit: 1^W (6 college credits – ENG 111/112)

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 10. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: Students will be directed in a process approach to writing and speaking which includes invention, audience, drafting, and editing; and they will read, write, and speak effectively about the literary genres of drama and poetry. Students should possess a high level of writing and reading skills as well as an independent work ethic. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year. Students may elect to take the Advanced Placement English exam as well. **Students are required to take the English 11 Reading Standards of Learning (SOL) test. A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 11 ADVANCED PLACEMENT (AP): ENGLISH LANGUAGE AND COMPOSITION (1196)

Offered: JR, LB

Grade Level: 11

Credit: 1^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 10.

Course Description: English 11 Advanced Placement Language and Composition will require students to practice close reading techniques necessary to become skilled readers of prose, both fiction and nonfiction, written in a variety of periods, disciplines, and rhetorical contexts. To become skilled writers, students will compose for a variety of audiences and purposes. Students should possess a high level of writing and reading skills as well as an independent work ethic. **Students are expected to take the Advanced Placement examination. Students are required to take the English 11 Reading Standards of Learning (SOL) test. A local assessment will be required by the state as a result of the elimination of the Standards of Learning (SOL) writing assessment.**

ENGLISH 12 (1160)

Offered: JR, LB

Grade Level: 12

Credit: 1

Prerequisite(s): Completion of English 11

Course Description: Students in English 12 will develop skills in oral communication, reading, writing, and research as set forth by the Virginia Standards of Learning to prepare for success in the workplace, a technical school, or two-year college.

ENGLISH 12 ADVANCED STUDIES (1161)

Offered: JR, LB

Grade Level: 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 11.

Course Description: Students in English 12 Advanced Studies will develop the reading, writing, and research skills necessary to make a successful transition to a post-secondary educational institution. Designed for the college-bound students, the course will emphasize those skills beyond the general level of the Virginia Standards of Learning. Students will study major periods and works of British literature.

ENGLISH 12: SURVEY OF ENGLISH LITERATURE I AND WORLD LITERATURE I (1168, 1168D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level: 12

Credit: 1^W (6 college credits – ENG 245/255)

Prerequisite(s): Students must successfully complete English 11: College Composition I and II in order to earn dual enrollment credit. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: The student will read and analyze the development of British literature and literature of other cultures. This course will involve critical reading and writing. Students should possess a high level of reading and writing skills as well as an independent work ethic. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year. Students may elect to take the Advanced Placement English exam as well.

ENGLISH 12 ADVANCED PLACEMENT (AP): ENGLISH LITERATURE & COMPOSITION (1195)

Offered: JR, LB

Grade Level: 12

Credit: 1^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 11.

Course Description: Students will study world literature and literary criticism in preparation for the Advanced Placement Examination in literature and composition. Students will practice composition as part of an intensive study of the process of literary analysis. Students are expected to display college-level proficiency in composition by the end of the course. Students should possess a high level of writing and reading skills as well as an independent work ethic. **Students are expected to take the Advanced Placement examination.**

PHOTOJOURNALISM I-VIII (1215-1223)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): A completed application, writing assignment and a personal interview with the teacher may be required. It is recommended that students have at least a “B” average in English.

Course Description: Students will study the principles of design and graphics, techniques of interviewing, reporting, feature writing, desktop publishing, photography, and financial management. The application of these studies will result in the publication of the school yearbook.

CREATIVE WRITING I-IV (1171-1174)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students will write creatively in different genres, such as poetry, fiction, and drama. They will also read and discuss each other’s writing. As a yearly project, students will produce a collection of personal writings.

READING AND WRITING STRATEGIES I-IV (1181-1184)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 (Elective)

Prerequisite(s): Student is working toward achieving a proficient score on the SOL Reading and/or Writing test.

Course Description: This course is designed to provide students with direct instruction in a variety of research-based learning strategies specifically created for increasing reading comprehension, decoding skills, and performance in the area of writing including sentence structure, grammar, paragraph structure, and essays.

LITERATURE THROUGH FILM (1165)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): English 9

Course Description: This course is a study of the elements of literary analysis through film and how filmmaking has translated the art of storytelling into a visual form. Students will be asked to evaluate how film, as a modern form of storytelling, has influenced our society. The course will also involve comparative analysis of literature and screen-based media.

DIGITAL JOURNALISM (1166)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Students should have strong writing skills and the ability to meet deadlines.

Course Description: Digital Journalism explores modern media and technology through creating and maintaining an online school newspaper. Students work together to write, edit, and publish articles on a daily basis, developing their writing skills in a team-based setting. Students also research journalistic ethics and the responsibility of modern media.

HISTORY/SOCIAL SCIENCES

WORLD HISTORY AND GEOGRAPHY I (2215)

Offered: JR, LB

Grade Level(s): 9, 10

Credit: 1

Course Description: World History and Geography I focuses on the historical development of people, places, and patterns of life from ancient times until about 1500 A.D. Students will study the origins of much of our heritage using texts, maps, pictures, stories, diagrams, and charts. Chronological, inquiry/research and technological skills will be emphasized. **Students may be required to take the World History and Geography I Standards of Learning (SOL) Test.**

WORLD HISTORY AND GEOGRAPHY I ADVANCED STUDIES (2214)

Offered: JR, LB

Grade Level: 9

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in previous social science course.

Course Description: The intent of this course is to prepare students for advanced studies and advanced placement social science courses. World History and Geography I Advanced Studies surveys the historical development of people, places and patterns of life from ancient times until about 1500 A.D. Students will study the origins of our heritage using texts, maps, pictures, stories, diagrams, charts, chronological skills, inquiry/research skills and technology skills. Students will be required to complete independent projects and the course will supplement the text with a variety of primary and secondary source readings. **Students may be required to take the World History I Standards of Learning (SOL) Test.**

WORLD HISTORY AND GEOGRAPHY II ADVANCED STUDIES (2217)

Offered: JR, LB

Grade Level: 10, 11, 12

Credit: 1

Prerequisite(s): Completion of World History I

Course Description: The intent of this course is to prepare students for advanced studies and advanced placement social science courses. World History and Geography II focuses on the historical development of people, places, and patterns of life from 1500 A.D. to the present with an emphasis on Western Europe. Geographic influences on history will continue to be explored, but increasing attention will be given to political boundaries that developed with the evolution of nation-states. The people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues. Students will engage in chronological thinking, historical comprehension, and historical analysis. **Students may be required to take the World History II Standards of Learning (SOL) Test.**

VIRGINIA AND U.S. HISTORY (2360)

Offered: JR, LB

Grade Level: 11

Credit: 1

Course Description: U.S. History covers the course of American history from the Colonial Era to the present. **Students may be required to take the U.S. Virginia History Standards of Learning (SOL) Test.**

VIRGINIA AND U.S. HISTORY ADVANCED STUDIES (2361)

Offered: JR, LB

Grade Level: 11

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in previous social science course.

Course Description: The intent of this course is to prepare students for advanced studies and advanced placement social science courses. The intent of this course is to help students develop the reading, writing, and research skills necessary to make a successful transition to a post-secondary education institution. U.S. History Advanced Studies surveys U.S. history from the Colonial Era to the present. Students will be required to complete independent projects and the course will supplement the text with a variety of primary and secondary source readings. Students signing up for this course should be academically motivated to study history on an advanced level. **Students may be required to take the Virginia and U.S. History Standards of Learning (SOL) Test.**

UNITED STATES HISTORY I & II (2363, 2363D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level: 11

Credit: 1^W (6 college credits – HIS 121/122)

Prerequisite(s): It is recommended that students have a final grade of “B” or better in a previous social studies class. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description:

History 121 introduces the history of the United States from its origins to 1877. Topics include European exploration, the development of the American colonies and their institutions, the Revolution, major political, social and economic developments, geographical expansion, the Civil War, and Reconstruction. History 122 introduces the history of the United States from 1865 to the present. Topics include major political, social and economic developments since 1865, overseas expansion, the two world wars, the Cold War and the post-Cold War era. Students should possess a high level of writing and reading skills as well as an independent work ethic. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year. Students may elect to take the Advanced Placement English exam as well.

U.S. HISTORY ADVANCED PLACEMENT (AP) (2319)

Offered: JR, LB

Grade Level: 11

Credit: 1^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in previous social science and English 10 courses.

Course Description: This course covers surveys U.S. history from the Colonial Era to the present and is equivalent to the demands of an introductory college course. It is an in-depth class with a chronological and/or topical approach. Students signing up for this course should be academically motivated to study history on an advanced level, possess a high level of writing and reading skills as well as an independent work ethic. **Students are expected to take the AP Exam. Students are required to take the Virginia and U.S. History Standards of Learning (SOL) Test.**

VIRGINIA AND U.S. GOVERNMENT (2440)

Offered: JR, LB

Grade Level: 12

Credit: 1

Course Description: U.S. Government is focused upon the structures and functions of American government at the national, state, and local levels. Students will be required to complete independent projects and the course will supplement the text with a variety of primary and secondary source readings.

VIRGINIA AND U.S. GOVERNMENT ADVANCED STUDIES (2441)

Offered: JR, LB

Grade Level: 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “B” or better in previous social science course.

Course Description: The intent of this course is to help students develop the reading, writing, and research skills necessary to make a successful transition to a post-secondary education institution. U.S. Government Advanced Studies is focused on the structures and functions of American government at the national, state, and local levels. This course is designed for the student who is motivated to study government on an advanced level. Students will be required to complete independent projects and the course will supplement the text with a variety of primary and secondary source readings.

U.S. GOVERNMENT I & II (2950, 2950D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western or Community College.)

Grade Level: 12

Credit: 1^W (6 college credits PLS 135/136)

Prerequisite(s): It is recommended that students have a final grade of “B” or better in Virginia and U.S History. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: This course teaches structure, operation, and process of national, state, and local governments. It includes an in-depth study of the three branches of the government and of public policy. Students should possess a high level of writing and reading skills as well as an independent work ethic. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year. Students may elect to take the Advanced Placement English exam as well.

U.S. GOVERNMENT & POLITICS ADVANCED PLACEMENT (AP) (2445)

Offered: JR, LB

Grade Level: 12

Credit: 1^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in English 11 and Virginia and U.S History courses.

Course Description: This course is a survey study equivalent to the demands of an introductory college course in political science. Emphasis is placed on the Constitution, the federal government policy process, and the operating relationships between the federal government and state/local governments. Students should possess a high level of writing and reading skills as well as an independent work ethic. **Students are expected to take the Advanced Placement examination.**

SOCIOLOGY (2800)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course is designed to provide students with a study of the roles of individuals, families, and community groups and to familiarize students with various cultures and the problems which can result from people living in groups. Students will study how such groups interact within a community setting in light of the basic concepts and theories covering many areas of contemporary sociology. Positive human relationships are an essential part of a civilized society and how we interact with each other is important so that we can find answers to questions and solve problems in our world. Topics to be covered include culture, violence, deviance, social control, socialization and personality, group behavior, social class, and social institutions.

PSYCHOLOGY (2900)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Course Description: This course provides a study of the thought processes and behavior of humans and examines the history of psychology including modern methods of behavioral analysis. Various topics of interest are covered, including the brain and learning styles, biological behavior, human development stages from infancy to elderly, personality types, the effects of sleep and sleep disorders, dream stages, intelligence, and psychological disorders. Through examination of these topics, students gain an in-depth understanding of their behavior, as well as the behavior of others.

PSYCHOLOGY ADVANCED PLACEMENT (AP) (2902)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1^W

Course Description: This full credit course introduces students to the scientific study of the behavior and mental processes of humans and other animals. Topics examined will include: biological bases of behavior; sensation and perception; learning and cognition; motivation; developmental psychology; testing and individual differences; abnormal behavior and its treatment; and social psychology. In accordance with the principles of current psychological practice, this course will emphasize the scientific method and procedure, ethical standards in research, and critical thinking skills. **Students are expected to take the Advanced Placement examination.**

WORLD RELIGIONS AND RELIGIOUS CONFLICTS (2996)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course is a comparative religion class, which focuses on the major world religions and on the conflicts, which have arisen from religious beliefs through the ages. The course will delve into the basic tenets, history, and religious observances and rites of the various religions. It will then focus on the crucial conflicts which have occurred over the centuries, including, but not restricted to, the spread of Islam after AD 600, the Crusades, the Spanish Inquisition and French persecution of the Huguenots, the Hindu and Sikh conflicts, the Northern Ireland rebellions, the Arab and Israeli conflicts, and the current terrorist issues of fundamentalist Muslims.

AMERICAN CONFLICTS (2997)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Course Description: This course will explore the social, economic, political, and military developments of the United States from the Revolutionary War Era to present.

INTERNATIONAL RELATIONS (2810)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Course Description: This course will explore the major issues, questions and theories about international relations among the nations of the world. The course will focus on United States foreign policy looking at both historical and current events.

ALGEBRA I PART I (3131)

Offered: LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 (elective)

Prerequisite(s): Completion of Math 8 Pre-Algebra

Course Description: Algebra I Part I is a gradual introduction to algebraic concepts and skills. The course includes basic concepts about numbers, language and symbols of math functions, variables, expressions, operations of real numbers, equations and inequalities. In order to earn an algebra credit, a student must complete Algebra I Part II.

ALGEBRA I PART II (3132)

Offered: LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Algebra I Part I

Course Description: Algebra I Part II covers graphing, solving systems of linear equations and inequalities, solving quadratic equations, rational expressions, and operations of polynomials. **Students are required to take the Algebra I Standards of Learning (SOL) Test.**

ALGEBRA I (3130)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Math 8 Pre-Algebra

Course Description: Algebra I covers expressions, single and multi-step equations, inequalities, and functions. Further study involves identifying and factoring polynomials and quadratic and radical equations. Statistics and probability are also explored. **Students are required to take the Algebra I Standards of Learning (SOL) Test.**

GEOMETRY (3143)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Algebra I or Algebra I Part II

Course Description: Geometry is the study of the theory and structure of geometric concepts. The course will include concepts on points, lines, planes, angles, reasoning and proofs, triangles, quadrilaterals, proportions, trigonometry, circles, three-dimensional figures, coordinate geometry, vectors, and transformations. **Students are required to take the Geometry Standards of Learning (SOL) Test.**

GEOMETRY ADVANCED STUDIES (3149)

Offered: JR, LB

Credit: 1

Grade Level(s): 9, 10

Prerequisite(s): It is recommended that students have a final grade of "B" or better in Algebra I.

Course Description: Geometry Advanced Studies covers the Geometry curriculum at a fast pace and includes selected trigonometry topics. It is a rigorous study of the theory and structure of geometric concepts and has an increased emphasis on formal proofs and creative applications of concepts. **Students are required to take the Geometry Standards of Learning (SOL) Test.**

ALGEBRA, FUNCTIONS, AND DATA ANALYSIS (3134)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Algebra I

Course Description: Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated through practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations.

ALGEBRA II (3135)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Algebra I and Geometry

Course Description: Algebra II is an extension of Algebra I. Topics of study include equations and inequalities, polynomials, relations and functions, exponents, irrational and complex numbers and quadratics. **Students are required to take the Algebra II Standards of Learning (SOL) Test.**

ALGEBRA II ADVANCED STUDIES (3137)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in Algebra I and Geometry courses.

Course Description: Algebra II Advanced Studies is a fast-paced course designed to cover the content from Algebra II and Trigonometry. It is a rigorous study of the theory and structure of algebraic concepts. Concept application is emphasized in the development of problem solving and critical thinking skills. **Students are required to take the Algebra II Standards of Learning (SOL) Test.**

ADVANCED MATHEMATICS WITH TRIGONOMETRY (3160)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "C" or better in Algebra II.

Course Description: Advanced mathematics topics will include the study of functions and relations, with emphasis on rational, square root, polynomial, exponential, and logarithmic functions. This course will also emphasize sequences, series, binomial expansion, circular and angular functions and their applications, basic trig identities, and trig equations and graphs.

STATISTICAL REASONING (3233)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Algebra II or Algebra II Advanced Studies

Course Description: This course presents elementary statistical methods and concepts including visual data presentation, descriptive statistics, probability, estimation, hypothesis testing, correlation and linear regression. Emphasis is placed on the development of statistical thinking, simulation, and the use of statistical software. Statistical reasoning is designed for the student planning to pursue college studies in the liberal arts fields.

PRE-CALCULUS WITH TRIGONOMETRY (3230, 3230D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level: 10, 11, 12

Credit: 1^W (5 college credits – MTH 167)

Prerequisite(s): Completion of Algebra II or Algebra II Advanced Studies. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: This course is designed to prepare students who plan to pursue college studies in mathematics, engineering, or the sciences. Successful completion of pre-calculus builds the foundation for advanced placement calculus AB/BC. The central theme of this course is functions as models of change. Each family of functions is represented symbolically, numerically, graphically, and verbally. Emphasis is placed on problem solving and real-world applications. This course presents topics in power, polynomial, rational, exponential, and logarithmic functions, systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines, and an introduction to conics. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year.

STATISTICS I (3233, 3233D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level: 10, 11, 12

Credit: 1^W (3 college credits – MTH 245)

Prerequisite(s): Successful completion of MTH 154, MTH 161, or MTH 167 with a grade of “C” or better.

Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.

Course Description: This course is designed to prepare students who plan to pursue college studies in mathematics, engineering, or the sciences. Successful completion of pre-calculus builds the foundation for advanced placement calculus AB/BC. The central theme of this course is functions as models of change. Each family of functions is represented symbolically, numerically, graphically, and verbally. Emphasis is placed on problem solving and real-world applications. This course presents topics in power, polynomial, rational, exponential, and logarithmic functions, systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines, and an introduction to conics. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year.

CALCULUS I (3234, 3234D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level(s): 11, 12

Credit: 1^W (4 college credits; MTH 263)

Prerequisite(s): Successful completion of MTH 167 with a grade of C or better or a placement recommendation for MTH 263 and four units of high school mathematics **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: This course presents analytic geometry and the calculus of algebraic and transcendental functions including the study of limits, differentials, and introduction to integration along with their applications. Designed for mathematical, physical, and engineering science programs.

STATISTICS ADVANCED PLACEMENT (AP) (3192)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1^W

Prerequisite(s): Completion of Algebra II or Algebra II Advanced Studies

Course Description: The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes 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. **Students are expected to take the Advanced Placement examination.**

CALCULUS AB/BC ADVANCED PLACEMENT (AP) (3180)

Offered: JR, LB

Grade Level(s): 10,11,12

Credit: 2^W (Full Year Course)

Prerequisite(s): Completion of Pre-Calculus

Course Description: This is a full-year course in the calculus of functions of a single variable. Topics covered will include properties of linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions, as well as sequences, series, and polar equations. Parametric Equations, Polar Coordinates, and Vector-Valued Functions as well as Infinite Sequences and Series will be covered. Students entering AP Calculus should be familiar with algebraic transformations, combinations, compositions, and inverses for general functions and be able to graph these functions and solve equations involving them. Students will be prepared to take either the Calculus AB or Calculus BC Advanced Placement examination.

SCIENCE**ENVIRONMENTAL SCIENCE (4260)**

Offered: JR, LB

Grade Level(s): 9

Credit: 1

Course Description: This foundational course is intended to provide students an understanding of the internal and external factors that impact the environment and the organisms living in it. This course cultivates scientific principles, concepts, and practical applications required to examine how humans manage and utilize resources.

EARTH SCIENCE (4210)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "C" or better in Physical Science 8 or completion of Environmental Science.

Course Description: Earth Science is an activity-centered study of the earth and space. This course includes the fields of geology, meteorology, astronomy, and oceanography and how they affect our changing earth. **Students may be required to take the Earth Science Standards of Learning (SOL) Test.**

BIOLOGY I (4310)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students complete either Earth Science or Environmental Science.

Course Description: Biology I is a foundation course providing an overview of biological concepts. The course includes the study of organisms and how they interact. Other topics include cells, genetics, human biology, and ecology. The course is lab-oriented and supplemented by lecture. **Students may be required to take the Biology I Standards of Learning (SOL) Test.**

BIOLOGY I ADVANCED STUDIES (4311)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "B" or better in Algebra I.

Course Description: This program is designed to prepare students for advanced biology coursework by providing the student with an opportunity to research, collect and analyze both observational and quantitative data from identification, processes and connections pertaining to both prokaryotic and eukaryotic life. Students are required to communicate on a high level as well as incorporating mathematical computations to illustrate their work. **Students may be required to take the Biology I Standards of Learning (SOL) Test.**

BIOLOGY II: HUMAN PHYSIOLOGY AND ANATOMY (4330)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have completed Biology I and Chemistry with a final grade of "B" or better in both.

Course Description: This course is offered for those who wish to enrich their knowledge of the human body and the functions of its systems. Through lecture and laboratory activities, students will establish a foundation which helps prepare them for careers in health fields and technical and medical research.

BIOLOGY II: ECOLOGY (4340)

Offered: JR, LB

Grades: 11, 12

Credit: 1

Prerequisite: Completion of Biology I

Course Description: This course is designed to cultivate analytical, inquiring and flexible minds that pose questions, solve problems, construct explanations and judge arguments regarding the interaction of organisms and their relationship with other organisms in their ecosystem. The course emphasizes laboratory, field investigations, and technology to examine biodiversity, adaptations, distributions of populations, and external factors that may affect organisms in their environments.

COLLEGE GENERAL BIOLOGY I & II (4700, 4700D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level(s): 10, 11, 12

Credits: 2^W (8 college credits – BIO 101/102)

Prerequisite(s): **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Course Description: This course emphasizes foundations in cellular structure, metabolism, and genetics in an evolutionary context. In addition, there is a focus on the diversity of life, anatomy and physiology of organisms, and ecosystem organization and processes in an evolutionary context. The core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology are explored through an interdisciplinary approach. This course is a dual enrollment college level course. Students electing to take this course for dual enrollment credit may be charged at the beginning of the year. After completing this dual enrollment course, students may elect to take the AP Biology exam.

BIOLOGY ADVANCED PLACEMENT (AP) (4370)

Offered: JR, LB

Grade Level(s): 11, 12

Credits: 2^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in a previous biology course and Chemistry.

Course Description: Advanced Placement Biology is designed to give the student an in-depth study of molecular, biochemical and environmental concepts while preparing students to take the advanced placement examination. **Students are expected to take the Advanced Placement examination.**

CHEMISTRY (4410)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in Algebra I or Algebra I Part II.

Course Description: Chemistry is the study of the composition, properties, and transformations of matter. It is lab-oriented and requires extensive use of Algebra in problem solving. **Students may be required to take the Chemistry Standards of Learning (SOL) Test.**

CHEMISTRY ADVANCED PLACEMENT (AP) (4470)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 2^W

Prerequisite(s): It is recommended that students have a final grade of “B” or better in Chemistry and Algebra II courses.

Course Description: Advanced Placement Chemistry allows students to study more chemical concepts in greater depth. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The course involves extensive reading, problem solving, and is lab-oriented with accompanying lecture and topical research. **Students are expected to take the Advanced Placement examination.**

PHYSICS (4510)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “B” or better in Algebra II.

Course Description: This course presents an in-depth look at mechanics and heat, optics, waves, electricity, magnetism, and atomic theory. Physics is recommended for the college bound student. The course format includes labs, lectures, and class discussions and mathematical problem solving.

ENVIRONMENTAL SCIENCE ADVANCED PLACEMENT (AP) (4270)

Offered: JR, LB

Grades: 10, 11, 12

Credit: 1^W

Prerequisite(s): It is recommended that student have successfully completed Algebra I as well as two years of a laboratory science – one year of Biology and one year of Chemistry.

Course Description: Advanced Placement Environmental Science is the interdisciplinary study of the interrelationships of living organisms and the environment emphasizing scientific principles, concepts, and methodologies necessary to identify, understand, analyze, and evaluate environmental problems. Data analysis, measurement, statistics, dimensional analysis and other operations that require mathematical skills are emphasized. The course is lab-oriented with accompanying lecture and topical research. **Students are expected to take the Advanced Placement examination.**

FINE ARTS**ART FOUNDATIONS (9120)**

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: The student will develop art skills and a working knowledge of the elements of design that include an introduction into two and three-dimensional media. This level provides students with opportunities to develop an understanding and an appreciation for art history. The students will be required to keep a sketch journal throughout the semester.

2D ART I (9131)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Art Foundations

Course Description: This course will introduce basic techniques in drawing and painting in a studio environment. The history of art is included to provide a link between the student, the student's art and the art of many cultures. Students will work equally in the areas of drawing and painting with a wide variety of materials.

2D ART II (9132)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of 2D Art I

Course Description: This course continues the study and creation of two-dimensional design at a more advanced level. Students will continue to develop their perception of edges, spaces, relationships, lights and shadows, and the whole. Critiques and evaluation of works of art and artists is included as part of the coursework.

3D ART I (9141)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Art Foundations

Course Description: This is a studio-oriented course that focuses on the basic techniques of sculpture and ceramics. Students will explore a wide variety of materials and processes for creating 3-D Art. The study of ceramics, crafts and sculpture throughout history and cross-culturally will also be included. Students will be expected to maintain a weekly sketchbook/journal of ideas.

3D ART II (9142)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of 3D Art I

Course Description: This course is a continuation in the study and creation of three-dimensional design at an advanced level. This studio-oriented class focuses on refining sculptural techniques, craftsmanship, visual problem solving, and personal expression. Styles in ceramics, crafts and sculpture will continue to be explored and compared in their historical and cultural context. Students will be expected to maintain a weekly sketchbook/journal.

STUDIO ART: ADVANCED PLACEMENT (AP) Drawing (9150), 2-Dimensional Design (9148), 3-Dimensional Design (9149)

Offered: JR, LB

Grade Level: 10, 11, 12

Credit: AP Studio Art - Drawing 1^W (Semester Course)AP Studio Art – 2-D Design 1^W (Semester Course)AP Studio Art – 3-D Design 1^W (Semester Course)

Prerequisite(s): Three semesters of art courses. Prior experiences in art courses that address conceptual, technical, and critical thinking skills will support student success in the AP Studio Art Program.

Course Description: The AP Studio Art Program offers three one semester courses: 2-Dimensional Design, 3-Dimensional Design, and Drawing. Individual artwork will be evaluated for quality, depth, discovery, and demonstration of superior knowledge of art principles and techniques. Students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions. **Students are expected to submit a portfolio of work for the course(s) in which they enrolled.**

CONCERT BAND I-VIII (9233-9239, 9256-9259)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): 2 years band experience or successful audition

Course Description: Concert Band Levels I and II are designed for the student with two or more year's instrumental experience. The course will expand on the students' instrumental knowledge with emphasis on performance ability. Class instruction includes theory, scales, interpretation and performance.

Concert Band Levels III-VIII will broaden the students' instrumental knowledge with emphasis on advanced performance ability. Class instruction includes advanced theory, major and minor scales, interpretation, and performance. The band will work extensively on music on the VBODA Grade 4, 5, and 6 levels.

All band students are required to attend all after-school performances, rehearsals, and band events scheduled during the school year for the ensembles in which they perform.

JAZZ BAND I-IV (9250-9263)

Offered: LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): 3 years band experience, instrumentation, and a successful audition

Course Description: The jazz band meets before the regular school day during zero block. The class will emphasize jazz performance. Class instruction includes jazz theory, major/minor scales, modes, stylistic study, and performance. The band class is a regular performing band. All class members are required to attend all after-school performances, rehearsals, and band events scheduled during the school year for the ensembles in which they perform. Instrumentation limitations: saxophones, trumpets, trombones, drum set, auxiliary percussion, piano, guitar, and bass guitar.

PERCUSSION ENSEMBLE I-IV (9251-9254)

Offered: LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): 3 years band experience, percussionist, and membership in one of other performing ensembles

Course Description: The percussion ensemble will focus on the skills directly involved with percussion performance. Class instruction will include mallet technique, auxiliary technique, as well as snare and bass drum techniques. Students will perform both battery style selections and concert ensemble selections.

CHOIR I-VIII (9285-9294)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description:

This course is designed to help students find and begin using their singing voice. Students will learn how the human voice works and will practice developing healthy singing techniques. Students will have the opportunity to sing in various musical styles and genres, and will learn the basics of reading and writing music. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

CONCERT CHOIR I-VIII (9271-9278)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Previous choir experience or a successful audition

Course Description:

The students will study a wide variety of vocal music and will perform several times during the term. Students will learn music theory and will develop or continue to expand their music reading ability. All students in the class are required to participate in all after-school performances, rehearsals and choir events scheduled during the school year for the ensembles in which they perform. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

VOCAL ENSEMBLE I-IV (9280-9283)

Offered: LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Previous choir experience or a successful audition

Course Description: Cavalier Singers is designed for students who have previous choir experience. The students will study a wide variety of vocal music containing 3-8 parts and will perform many times throughout the school year both at the school and in the community. All students in the class are required to participate in all after-school performances, rehearsals and choir events scheduled during the school year for the ensembles in which they perform. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

ROCK HISTORY AND GUITAR (9222)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course introduces students to the multi-faceted world of music and how it relates to their everyday lives. Students will trace the development of rock music styles from 1940 to the present as well as discover music's impact on human life, business, and culture. As part of the course, students will learn the basics of guitar in order to better experience the material being studied.

WORLD LANGUAGES**FRENCH I (5110)**

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of "C" or better in previous English course.

Course Description: French I introduces students to the study of a modern world language. Students learn to understand basic spoken French, to speak basic French using acceptable pronunciation, to read basic French and to write basic French. Students also acquire a general knowledge of geography, history and culture of French-speaking people.

FRENCH II (5120)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in French I.

Course Description: French II continues the study of French at an intermediate level. A good foundation from French I is critical to the student being successful. There is greater emphasis on the use of French to communicate in the classroom.

FRENCH III (5130)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in French II.

Course Description: French III is an advanced course in which students will continue to expand their knowledge of grammar and reading comprehension, as well as written and oral communication skills.

FRENCH IV (5140)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in French III.

Course Description: In French IV, students continue to develop oral-aural skills in various situational activities as well as comprehension and writing skills based on the different genres of French literature and cultural topics.

FRENCH LANGUAGE AND CULTURE ADVANCED PLACEMENT (AP) (5170)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1^W

Prerequisite(s): It is recommended that students have a final grade of “C” or better in French IV.

Course Description: This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). **Students are expected to take the Advanced Placement examination.**

SPANISH I (5510)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in previous English course.

Course Description: Spanish I introduces students to the study of a modern world language. Students learn to understand basic spoken Spanish, to speak basic Spanish using acceptable pronunciation, to read and write basic Spanish. Students also acquire a general knowledge of the geography, history, and culture of Hispanic people.

SPANISH II (5520)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in Spanish I.

Course Description: Spanish II continues the study of Spanish at an intermediate level. A good foundation from Spanish I is critical to the student being successful. There is greater emphasis on the use of Spanish to communicate in the classroom.

SPANISH III (5530)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): It is recommended that students have a final grade of “C” or better in Spanish II.

Course Description: Spanish III is an advanced course in which students will continue to expand their knowledge of grammar and reading comprehension, as well as written and oral communication skills.

SPANISH IV - INTERMEDIATE SPANISH CONVERSATION I (5540, 5540D)

Offered: JR, LB (Course is dual enrolled through Mountain Gateway or Virginia Western Community College.)

Grade Level(s): 10, 11, 12

Credit: 1^W (3 college credits – SPA 201)

Prerequisite(s): Successful completion of three years of high school Spanish or SPA 102; Students electing to take this course for dual enrollment credit **MUST** apply to the appropriate college and successfully meet GPA and/or placement testing requirements.

Course Description: This course includes advanced Spanish grammar and composition and the continued development of speaking, writing, listening and reading skills.

SPANISH V - INTERMEDIATE SPANISH CONVERSATION II (5550, 5550D)

Offered: JR This course is dual enrolled through Mountain Gateway Community College.

Offered: LB This course is dual enrolled through Virginia Western Community College.

Grade Level: 10,11, 12

Credit: 1^W (3 college credits – SPA 202)

Prerequisite(s): Students must have a final grade of “C” or better in Spanish IV.

Course Description: This course continues the study of advanced Spanish grammar and composition as well as the development of speaking, writing, listening and reading skills.

HEALTH AND PHYSICAL EDUCATION**PHYSICAL EDUCATION/HEALTH 9 – SUMMER COURSE**

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Parents/guardians and students will be required to attend a scheduled orientation/informational meeting. This meeting will be scheduled prior to end of Spring semester. Tuition will be required.

Course Description: The Botetourt County YMCA will be used for this 6-week summer course. Students will be introduced to an array of cardiovascular fitness activities, strength training, muscle endurance training, and flexibility. Activities will include but not limited to proper weight-lifting techniques, trending fitness activities (body pump, step aerobics, cardio kickboxing), and yoga. The health portion of the class will focus on the 9th grade health and family life SOLs and will be taught through Google classroom. Health unit assessments will be administered as in class activities on a weekly basis. Emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation will be required as part of the health curriculum.

PHYSICAL EDUCATION/HEALTH 10 & DRIVER EDUCATION – SUMMER COURSE

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Parents/guardians and students will be required to attend a scheduled orientation/informational meeting. This meeting will be scheduled prior to the end of spring semester. Tuition will be required.

Course Description: Botetourt County YMCA will be used for this 6-week summer course. All students must complete the minimum class hour requirements for physical education/health 10. This course prepares students to develop proper decision-making processes for operating a motor vehicle. They will develop the ability to understand and anticipate how physical activity interests and abilities change across a lifetime. Students demonstrate competency in lifelong physical activities and plan, implement, self-assess, and modify a personal fitness plan. Students in grade ten demonstrate comprehensive health and wellness knowledge and skills. Their behaviors reflect a conceptual understanding of the issues associated with maintaining good personal health. They serve the community through the practice of health-enhancing behaviors that promote wellness throughout life. These requirements will be outlined and monitored by the assigned physical education teacher. Driver Education requirements will be completed through the Virginia Association of Driver Education and Traffic Safety (VADETS) Online Driver Education Course. The VADETS fee for this course will be part of the required tuition and must be paid directly to VADETS. Students completing the VADETS course will earn the Virginia required DEC1 (green card) required to test for a driver's permit. Successful completion of both PE/Health 10 and Driver Education will earn the required high school credit. BCPS will not award partial credit for this course.

Information about Virginia Association of Driver Education and Traffic Safety (VADETS) can be found at: <http://vadriveredu.org/login/index/php>

PHYSICAL EDUCATION/HEALTH 9 (7300, 7302)

**Note: LBHS band students should select course number 7302.*

Offered: JR, LB Band Students

Grade Level: 9

Credit: 1

Course Description: This class orients students to the rules, regulations, and skills required for various individual and team activities. Health will be taught on a rotating basis with physical education. In addition, all 9th grade PE students will meet the requirement to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

TEAM SPORTS/HEALTH 9 (7303)

**Note: LBHS band students should select course number 7302.*

Offered: LB

Grade Level: 9

Credit: 1

Course Description: This course will focus on a variety of team sports with emphasis on the development of the skills, knowledge and understanding necessary for competent participation at a recreational level. It will include activities for skill development, team participation, and team competition, as well as officiating, peer coaching and other aspects of sport management. Some of the activities to be included are: basketball, football, lacrosse, soccer, softball, team handball, volleyball and ultimate frisbee. The health portion of the class will focus on the 9th grade health and family life SOLs and will be taught on a rotating basis with physical education. In addition, all 9th grade PE students will meet the requirement to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

LIFETIME FITNESS AND WELLNESS/HEALTH 9 (7304)

**Note: LBHS band students should select course number 7302.*

Offered: LB

Grade Level: 9

Credit: 1

Course Description: This course emphasizes fitness for lifetime activities for individuals (team sports will not be incorporated during the unit). Students will be introduced to an array of cardiovascular fitness activities, strength training, muscle endurance training, and flexibility. Activities will include but not limited to proper weight-lifting techniques, trending fitness activities (body pump, step aerobics, cardio kickboxing), yoga, and cardiovascular fleeing games. The health portion of the class will focus on the 9th grade health and family life SOLs and will be taught on a rotating basis with physical education. In addition, all 9th grade PE students will meet the requirement to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

PHYSICAL EDUCATION/HEALTH 10 & DRIVER EDUCATION (7405)

Offered: JR, LB Band students

Grade Level: 10

Credit: 1

Prerequisite(s): Physical Education and Health 9

Course Description: This class orients students to the rules, regulations, and skills required for various individual and team activities. Health will be taught on a rotating basis with physical education. Driver and traffic safety education is a course designed to aid the student in obtaining a driver's license. This classroom course will include discussions of drugs, alcohol, road rage, and safe driving practices. A student must complete the classroom course before behind-the-wheel training can begin. There is no guarantee as to which semester a student will be enrolled in this course.

Note: Sophomores at LBHS are required to choose 7407, 7408, or 7409 for graduation if they are not in band. Band students should select course number 7405.

TEAM SPORTS/HEALTH & DRIVER EDUCATION 10 (7407)

Offered: LB

Grade Level: 10

Credit: 1

Prerequisite(s): Physical Education and Health 9

Course Description: This course will focus on a variety of team sports with emphasis on the development of the skills, knowledge and understanding necessary for competent participation at a recreational level. It will include activities for skill development, team participation, and team competition, as well as officiating, peer coaching and other aspects of sport management. Some of the activities to be included are: basketball, football, lacrosse, soccer, softball, team handball, volleyball and ultimate frisbee. The health portion of the class will focus on the 10th grade health and family life SOLs and will be taught on a rotating basis with physical education. Driver and traffic safety education is a course designed to aid the student in obtaining a driver's license. This classroom course will include discussions of drugs, alcohol, road rage, and safe driving practices. A student must complete the classroom course before behind-the-wheel training can begin. There is no guarantee as to which semester a student will be enrolled in this course.

STRENGTH TRAINING & CONDITIONING/HEALTH & DRIVER EDUCATION 10 (7408)

Offered: LB

Grade Level: 10

Credit: 1

Prerequisite(s): Physical Education and Health 9

Course Description: The focus of this course will be physical conditioning with an emphasis on strength training, physical conditioning and the skills and knowledge necessary to develop a personal fitness program. The health portion of the class will focus on the 10th grade health and family life SOLs and will be taught on a rotating basis with physical education. Driver and traffic safety education is a course designed to aid the student in obtaining a driver's license. This classroom course will include discussions of drugs, alcohol, road rage, and safe driving practices. A student must complete the classroom course before behind-the-wheel training can begin. There is no guarantee as to which semester a student will be enrolled in this course.

AEROBICS AND DANCE/HEALTH & DRIVER EDUCATION 10 (7409)

Offered: LB

Grade Level: 10

Credit: 1

Prerequisite(s): Physical Education and Health 9

Course Description: This course will focus on group aerobics, dance and other rhythmic activities. Activities will include student-based choreography, expression through movement, flexibility training, popular social dances and other forms of dance. The health portion of the class will focus on the 10th grade health and family life SOLs and will be taught on a rotating basis with physical education. Driver and traffic safety education is a course designed to aid the student in obtaining a driver's license. This classroom course will include discussions of drugs, alcohol, road rage, and safe driving practices. A student must complete the classroom course before behind-the-wheel training can begin. There is no guarantee as to which semester a student will be enrolled in this course.

INDIVIDUAL AND GROUP LIFETIME ACTIVITIES 11 (7510)

Offered: JR, LB

Grade Level: 11

Credit: 1

Course Description: Individual and Group Lifetime Activities 11 will emphasize fitness for life. Students will be evaluated on their individual progress and their academic knowledge of nutrition and anatomy. Activities will include but not be limited to personal fitness, aerobics, volleyball, racquetball, orienteering, badminton, flag football, conditioning activities, disc golf, golf, weight training, outdoor recreation activities, etc.

INDIVIDUAL AND GROUP LIFETIME ACTIVITIES 12 (7610)

Offered: JR, LB

Grade Level: 12

Credit: 1

Course Description: Individual and Group Lifetime Activities 12 will emphasize fitness for life. Students will be evaluated on their individual progress and their academic knowledge of nutrition and anatomy. Activities will include but not be limited to personal fitness, aerobics, volleyball, racquetball, orienteering, badminton, flag football, conditioning activities, disc golf, golf, weight training, outdoor recreation activities, etc.

UNIFIED PHYSICAL EDUCATION (7410)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 1

Prerequisite(s): Physical Education and Health 9, Physical Education/Health 10 and Driver Education

Course Description: Unified Physical Education provides a variety of recreational activities that appeal to a wide representation of the student population including students with and without disabilities. The course provides inclusive leadership opportunities, community partnerships, physical activity, and a focus on the social, emotional, and mental health of all participants. Students will engage in functional fitness and fitness planning, nutrition, aerobics, individual sports, team competition, and other recreational activities.

WEIGHT TRAINING & CONDITIONING I (7640)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description:

The focus of this course will be physical fitness with an emphasis on strength training, physical conditioning and the skills and knowledge necessary to develop a personal fitness program. A variety of activities will be incorporated to enhance both the health and skill related components of fitness for students of all skill and ability levels. Level I weight training and conditioning will emphasize proper technique, muscle groups and anatomy.

WEIGHT TRAINING & CONDITIONING II (7643)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Weight Training and Conditioning I

Course Description: The focus of this course will be physical fitness with an emphasis on strength training, physical conditioning and the skills and knowledge necessary to develop a targeted personal fitness program. A variety of activities will be incorporated to enhance both the health and skill related components of fitness for students of all skill and ability levels. Level 2 weight training and conditioning will emphasize nutrition and diet.

WEIGHT TRAINING & CONDITIONING III (7641)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Weight Training and Conditioning: II

Course Description:

The focus of this course will be advanced physical fitness with an emphasis on strength training, physical conditioning and the skills and knowledge necessary to develop an advanced workout and personal fitness program. A variety of activities will be incorporated to enhance both the health and skill related components of fitness for students of all skill and ability levels. Level III weight training and conditioning will emphasize sports application and targeted work out planning.

WEIGHT TRAINING & CONDITIONING IV (7644)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Weight Training and Conditioning III

Course Description: The focus of this course will be raising a student's training age and physical maturational index. Time is the variable in strength and conditioning at the advanced level. Student athletes will have both the time and the differentiated guidance to build upon previous gains and accomplishments from Weight Training and Conditioning I, II, and III.

CAREER AND TECHNICAL EDUCATION (CTE) COURSE DESCRIPTIONS

Career and Technical Education (CTE) courses give students the opportunity to apply academic knowledge and skills to real world issues. Regardless of post-secondary goals, all students can benefit from taking these courses. In addition, students that complete CTE programs have the opportunity to earn industry-recognized credentials that will give them a competitive advantage in their future endeavors.

The Virginia Department of Education requires school divisions to test all CTE completers with an approved external examination at the end of their CTE program. Any course that requires such testing has been noted in the course description. For more information about becoming a CTE completer or about the testing provided, please contact your school counselor.

AGRICULTURAL EDUCATION

Student Organization: Future Farmers of America (FFA)

FARM TO TABLE FOOD SCIENCE (8239)

Offered: JR, LB

Grade Level(s): 9,10,11,12

Credit: 1

Course Description: In this course students will integrate sustainable agricultural practices, food preparation and consumerism. Through laboratory and other practical experiences, students will develop a deeper appreciation for the food system and the impact of science on the food and nutrition industries. Students will use cost analysis, food and kitchen safety with an emphasis on local, seasonal products. Students will explore food sources, the science and technology of food production and processing, and the implications for individual, global health and wellness with an emphasis on the Farm to Table movement. This class is a collaborative class with students alternating days with the Agricultural and Family and Consumer Science programs.

INTRODUCTION TO AGRICULTURE AND SHOP TECHNOLOGY (8073)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course introduces students to all aspects of the agriculture industry. Students will learn about career opportunities through hands-on experience in the fields of animal sciences, plant sciences, agricultural mechanics, and agriculture business. So whether you are interested in being a veterinarian, wildlife biologist, forester, welder, builder, or a mechanic, this is the course for you. In this course you will also have the opportunity to be a member of the FFA where you will have the opportunity to learn valuable leadership skills and be able to take part in specialized career development events across the state to sharpen your specific field of interest. This serves as a good introductory course to programs at BTEC.

AGRICULTURAL SYSTEMS (8008)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Introduction to Agriculture and Shop Technology

Course Description: This course is an introductory course that will allow students to learn about plant and animal systems associated with the agriculture industry. Through classroom and shop settings, students will gain knowledge of the growth and production of agricultural plants and animals. Students will also gain an understanding of the mechanics associated with these agricultural industries. Students will learn important leadership skills through membership in the FFA.

AGRICULTURE PRODUCTION (8010)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Introduction to Agriculture and Shop Technology

Course Description: This course emphasizes the local enterprises of beef and dairy cattle as well as food production. Students will continue to experience activities relating to plant, animal and environmental science as well as agriculture mechanics. Students will understand principles of leadership through opportunities within FFA along with supervised agricultural experience opportunities. This course *may* require a certification or credentialing test.

AGRICULTURE MANAGEMENT (8012)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Introduction to Agriculture and Shop Technology

Course Description: Through partnerships with local agriculture industry representatives, students will gain a better understanding of how to successfully manage an agricultural enterprise. Emphasis will be placed on agriculture mechanics, soil and water management, supervised farming programs and leadership training. Shop skills are geared to more advanced metal and woodworking projects along with electrical wiring, outbuilding construction and farm vehicle care and maintenance. This course *may* require a certification or credentialing test.

OPERATING THE FARM BUSINESS (8014)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Introduction to Agriculture and Shop Technology

Course Description: Students focus on farming, farm management, and occupational experience as they receive instruction in adjusting, operating, and maintaining farm machinery and equipment and in planning and constructing farm buildings and facilities. Continued emphasis is placed on leadership training through involvement in FFA activities. This course may require a certification or credentialing test.

SMALL ENGINE REPAIR TECHNOLOGY I (8082)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Small Engine Repair Technology is an intensive study of the operation, maintenance, and repair of small gasoline and diesel engines. Learn to repair and maintain your mowers and discover how they operate.

SMALL ENGINE REPAIR TECHNOLOGY II (8018)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Small Engine Repair Technology I

Course Description: In this course you will have the opportunity to learn more about small gas engines along with full lawn mower repair and small diesel engine operation. Students will receive instruction in the areas of basic engine principles, power trains, hydraulics, and electrical systems. This course *may* require a certification or credentialing test.

BUSINESS and INFORMATION TECHNOLOGY

Student Organization: Future Business Leaders of America (FBLA)

ACCOUNTING (6320)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course emphasizes accounting principles, and the relationships and processes of manual and computerized financial systems. Instruction integrates computers and electronic calculators. Students interested in studying a business field at the post-secondary level are strongly encouraged to take Accounting. This course *may* require a certification or credentialing test.

BE YOUR OWN BOSS (9093)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students study basic management concepts and leadership styles as they explore business ownership, planning, operation, marketing, finance, human relations, and communication.

DIGITAL APPLICATIONS (6611)

(Formerly Computer Applications)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Computer Applications goes beyond developing/reviewing correct keyboarding techniques by allowing students to gain a comprehensive knowledge of Microsoft Word while also introducing a basic use of spreadsheets, database and graphic applications. This course *may* require a certification or credentialing test.

ECONOMICS & PERSONAL FINANCE (6120)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Course Description: This course is designed to familiarize students with basic consumer skills that will help them survive "life after graduation" whether in a post-secondary education setting or the workforce. This course *may* require a certification or credentialing test. **This is a required course for graduation.**

MEDICAL SYSTEMS ADMINISTRATION (6730)

(Formerly Medical Terminology and Applications)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 1

Course Description: Students wishing to gain employment in the medical field may take this course to learn how to use medical terminology and procedures useful in developing medical documents and functioning effectively in a medical office environment. This course *may* require a certification or credentialing test.

MICROSOFT OFFICE (6612)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Course Description: This course is designed to introduce students to computer technology and practical applications using Microsoft Office 2013 (Word, Excel, Access and PowerPoint). This course *may* require a certification or credentialing test.

MULTIMEDIA WEB DESIGN (6630)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students develop proficiency in designing and creating desktop-published projects, multimedia presentations/projects, and websites, using industry-standard application software. Students apply principles of layout and design in completing projects. Students will produce a variety of desktop-published, multimedia, and website projects in the course. This course *may* require a certification or credentialing test.

PRINCIPLES OF BUSINESS AND MARKETING (6115)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students discover the roles of business and marketing in the free enterprise system and the global economy. Students examine basic financial concepts of banking, insurance, credit, taxation, and investments to provide a strong background for making sound decisions as consumers, wage earners, and citizens. The real-world effects of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career-development skills and explores career options.

FAMILY AND CONSUMER SCIENCES

Student Organization: Family, Career, and Community Leaders of America (FCCLA)

FARM TO TABLE FOOD SCIENCE (8239)

Offered: JR, LB

Grade Level(s): 9,10,11,12

Credit: 1

Course Description: In this course students will integrate sustainable agricultural practices, food preparation and consumerism. Through laboratory and other practical experiences, students will develop a deeper appreciation for the food system and the impact of science on the food and nutrition industries. Students will use cost analysis, food and kitchen safety with an emphasis on local, seasonal products. Students will explore food sources, the science and technology of food production and processing, and the implications for individual, global health and wellness with an emphasis on the Farm to Table movement. This class is a collaborative class with students alternating days with the Agricultural and Family and Consumer Science programs.

EARLY CHILDHOOD DEVELOPMENT (8232)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students will study principles of child growth and behavior, positive behavior guidance, creating healthy and safe environments, professionalism, and basic childcare. Students will be engaged in project-based activities. This course *may* require a certification test.

INDIVIDUAL DEVELOPMENT AND RELATIONSHIPS (8210)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Respect, responsibility, and relationships—it has been proven that young people who feel good about themselves and learn various coping skills are more motivated to succeed. This course teaches young people how to live with one another, how to be supportive and nurturing, how to show respect for each other, and how to have dignity for one's self. This course *may* require a certification or credentialing test.

INTRODUCTION TO CULINARY ARTS (8250)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course includes the basic food preparation skills needed to successfully prepare meals. Students will also identify the individual careers within the food service industry. Limited sections of this course will be provided. This course *may* require a certification or credentialing test.

**INTRODUCTION TO FASHION CAREERS (8248)
(Formerly Fashion Marketing)**

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: The design and merchandising competencies for this course focus on identifying and exploring the individual careers within the apparel, accessory, and textile design, manufacturing, and merchandising industry. The course will involve a variety of hands-on projects; students are responsible for project supply lists for these projects. This course *may* require a certification or credentialing test.

INTRODUCTION TO INTERIOR DESIGN (8255)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: In Interior Design, students will explore housing options, space utilization, development of artistic skills, environmental components, lighting, interior finishes, accessories, energy conservation, furnishings, equipment selection, and careers in interior design. The course will involve a variety of hands-on projects; students are responsible for project supply lists for these projects. This course *may* require a certification or credentialing test.

LEADERSHIP DEVELOPMENT (9097)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students will develop life skills necessary to thrive in an ever-changing society. Through the study of both current and historical role models, students will learn how to apply key character traits to their personal and academic lives. Using the BCPS Academic Career Plan (ACP), students will continue to plan a course of study that best prepares them for their career interest. This course *may* require a certification or credentialing test.

NUTRITION AND WELLNESS (8229)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course is not just for the athlete, but anyone who wants to better understand the components of fitness and nutrition and their effects on the body. Information covers self-assessment, nutrition basics, current food and fitness issues, and a chance to create nutritional meals and snacks. This course *may* require a certification or credentialing test.

REAL LIFE 101 (8219)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: Students become prepared to meet the challenges of living on their own. Students build life skills focusing on creating and maintaining healthy relationships and making responsible financial, consumer, nutrition, and housing decisions. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses.

HEALTH AND MEDICAL SCIENCE

SPORTS MEDICINE/ATHLETIC TRAINING I CONDENSED (8316)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 Prerequisite(s): None

Course Description: This course introduces students to topics such as human anatomy and physiology, nutrition, medical terminology, injuries and illnesses, and legal and ethical issues in sports medicine.

SPORTS MEDICINE/ATHLETIC TRAINING II CONDENSED (8317)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1 Prerequisite(s): Completion of Sports Medicine/Athletic Training I

Course Description: This course builds upon basic knowledge acquired in Sport Medicine I on topics such as exercise physiology, biomechanics, exercise program design and injury prevention, assessment, treatment and management. Students completing this course will be qualified to serve as student assistants in the sports medicine department.

MARKETING EDUCATION

Student Organization: DECA

MARKETING (8120)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 1

Course Description: This course allows a student to learn marketing concepts. Students will research career opportunities, identify traits appropriate for the workforce and develop communication skills. Students will become knowledgeable in economics, selling techniques, distribution, risk management and Internet marketing. This course *may* require a certification or credentialing test.

SPORTS, ENTERTAINMENT, AND RECREATION MARKETING (8175)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Course Description: This course is designed for students who have an interest in sports and recreation as well as entertainment. Students will study marketing concepts as they relate to the sports and entertainment industries. This course *may* require a certification or credentialing test.

SPORTS, ENTERTAINMENT AND RECREATION MARKETING ADVANCED (8177)

Offered: JR, LB

Grade Level(s): 10, 11, 12

Credit: 1

Prerequisite(s): Completion of Sports, Entertainment and Recreation Marketing

Course Description: Students will build on prior knowledge of sports, entertainment, and recreation marketing and explore in-depth sports and entertainment industries. This course *may* require a certification or credentialing test.

WORK-BASED LEARNING/APPRENTICESHIP

WORK-BASED LEARNING I (8201)

WORK-BASED LEARNING II (8202)

Offered: JR, LB

Grade Level(s): 11, 12

Credit: 1 (Full Year Course)

Prerequisite(s): Students must be enrolled in a CTE course during the school year, secure employment before the first day of school, and maintain employment throughout the school year.

Course Description: This course is a structured method of instruction combining CTE classroom-based education with on-the-job training experiences to help students prepare for and/or explore their occupational objectives. Students enhance their knowledge, skills, and attitudes by participating in supervised experiences that are not easily replicated in an educational setting. Formal and informal evaluations of student progress, including feedback from employers, are completed to assist learners in improving their work performance and providing an additional credit toward graduation. **Credit for work-based learning during a 36-week school year will be based upon successful completion of the course requirements and continuous employment throughout the school year, averaging between 11 and 15 hours a week.** Any student who has not maintained employment throughout first semester will receive a WF and be placed in a new course for second semester.

APPRENTICESHIP (9842)

Offered: JR, LB, BTEC

Grade Level(s): 11, 12

Credit: 2 credits or 4 credits (Full Year Course)

Prerequisite(s): Students must have earned an industry-recognized certification and have employment within the industry. This course allows students who have completed industry credentials or state licensure and secured employment within that industry to earn credit for work experience. Formal and informal evaluations of student progress and work performance, including feedback from employers, will be used for course assessment. **Students are expected to maintain employment throughout the school year.** Any student who has not maintained employment throughout first semester will receive a WF and be placed in a new course(s) for second semester.

BOTETOURT COUNTY ADVANCED TRAINING COURSES AND PROGRAMS

AEROSPACE TECHNOLOGY

Offered: BTEC This course is dual enrolled through Mountain Gateway Community College.

Grade Level(s): 9, 10, 11, 12

Credit: 2^W credits

Prerequisite(s): Students electing to take this program for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements. Students will be enrolled in the following two courses which will be included on the high school transcript.

Program Course Descriptions:

Aerospace Technology (8487, 8487D): This course offers students an introduction to flight, space and supporting technologies through a hands-on, project-based instruction. Students explore the aviation and space industries through working with aerodynamics and aircraft components. Topics include, but are not limited to, maintenance and safety issues, flight conditions, flight operations and concepts of rocketry and space.

Unmanned Aircraft Systems (8910, 8910D): This course prepares students to fly drones under the Federal Aviation Administration's (FAA) Part 107 guidelines. Students get an overview of the national airspace system, FAA regulations, and the design and operation of small drones. Students monitor weather, address loading and performance of drones, and coordinate flight operation logistics. They perform administrative tasks, train to fly, and, finally, fly small unmanned aircraft systems (sUAS).

AUTO BODY TECHNOLOGY

Offered: BTEC

Grade Level(s): 10, 11, 12

Credits: Auto Body I – 2 credits

Auto Body II – 4 credits

Autobody III – 4 credits

Prerequisite(s): Students must earn a "C" or better in Auto Body I and have completed the safety certification to enroll in Auto Body II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Auto Body Technology I (8676) Auto Body Technology is a two-year ASE certified program that introduces entry level and advanced skills to students interested in entering this highly technical field. Students will gain practical work experience in collision repair while completing the I-Car Pro Level One intro series for non-structural repair.

Auto Body Technology II (8677) Students learn basic and advanced skills of automotive refinishing, while completing the I-Car refinishing curriculum. Student will take the ASE certification test for nonstructural repair and refinishing upon completion of the second year.

Auto Body Technology III (8678) This course allows students to apply knowledge and skills learned in Auto Body Technology I and II. Students can continue to perfect their auto body skills and move toward employment in the industry. Students who successfully complete this program will be prepared to take an industry recognized certification examination and will be prepared for postsecondary education opportunities.

AUTO SERVICE TECHNOLOGY

Offered: BTEC

Grade Level(s): 10, 11, 12

Credits: Auto Service I – 2 credits

Auto Service II – 4 credits

Auto Service III – 4 credits

Prerequisite(s): Students must earn a "C" or better in Auto Service I and have completed the safety certification to enroll in Auto Service II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Auto Service Technology I (8506) Auto Service Technology is an ASE certified two-year program that teaches basic skills needed to diagnose and repair today's automobiles. In Auto Service I, students will complete lessons in lab safety and equipment use/safety tests (SP-2), tool identification, vehicle service, maintenance, tire and wheel service, electrical systems, engine theory and repair, engine performance and brake systems. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

Auto Service Technology II (8507) In Auto Service II, students will continue lessons in safety (SP-2), brake systems, electrical systems, and engine repair and performance. Students will also study vehicle emissions systems, steering and suspension systems and alignment, and Virginia state inspection requirements. Students will complete ASE certification testing in multiple areas.

Auto Service Technology III (8507) This course prepares students to perform automotive diagnosis and repairs in the following areas: engine repair, cooling systems, transmission and transaxle, manual drive trains and axles, suspension and steering, wheel and tire, brakes, electrical/electronic systems, HVAC, and engine performance. Students are provided with more advanced instruction in all systems as they prepare for the Automotive Service Excellence (ASE) certification examinations. The Automotive Technology program provides the fundamental skills necessary to succeed in an ever-changing and challenging industry as an automotive technician.

BUILDING TRADES

Offered: BTEC

Grade Level(s): 9, 10, 11, 12

Credits: Building Trades I – 2 credits

Building Trades II – 4 credits

Building Trades III – 4 credits

Prerequisite(s): Students must earn a “C” or better in Building Trades I and have completed the safety certification to enroll in Building Trades II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Building Trades I (8515) Students learn skills in the four core areas of residential construction: masonry, carpentry, electricity, and plumbing. Students emphasize safety by preparing to earn the OSHA 10 card as they build or repair entire residential structures, using a variety of materials and tools.

Building Trades II (8516) Students learn advanced skills in masonry, carpentry, electricity, and plumbing. The class prepares students to synthesize these valuable skills to build or repair complete residential structures, using a variety of materials and tools. At the conclusion of the second year of this program, the student will be expected to take a certification or credentialing test.

Building Trades III (8517) This course builds on the continuation of Building Trades II. BT III encourages students to work in the construction field. Students will learn skills and gain knowledge related to residential and light commercial construction. Students will address a broad range of topics including but not limited to: site layout, material estimation, general construction documents, time management and planning, plan reading, and work related job skills. All skills that are relevant to a challenging and changing industry. BT III course content will prepare the student to enter the workforce or continue their education post-secondary

COMPUTER SYSTEMS TECHNOLOGY (CST)

Offered: BTEC

Grade Level(s): 10, 11, 12

Credits: CST I - 2 credits

CST II - 2 credits

Prerequisite(s): Students must earn a “C” or better in Computer Systems I in order to enroll in Computer Systems II and III. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Computer Systems Technology I (8622) Students gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. Students also have the opportunity to develop skills in computer networking and resource sharing.

Computer Systems Technology II (8623) Students are provided training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. Upon successful completion of the course, students will have the opportunity to earn PC Pro Certification through Test Out.

COSMETOLOGY

Offered: BTEC

Grade Level(s): 11, 12

Credits: Cosmetology I and II - 4 credits

Cosmetology III - 4 credits

Prerequisite(s): Students must earn a “C” or better in Cosmetology I/II in order to enroll in Cosmetology III. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Cosmetology I and II (8527, 8528) Students complete Cosmetology I and II in their junior year. Students are introduced to the principles, anatomy, physiology, and chemistry of hair, skin, and nail care. Students also learn proper work habits and business skills necessary to be successful in the cosmetology field. Students practice skills to earn the competencies that are required by the state. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

Cosmetology III (8529) Students complete Cosmetology III in their senior year. Students refine practical skills to prepare for the State Board test. The written and practical licensure test is taken as a senior in the spring semester. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

CRIMINAL JUSTICE

Offered: BTEC This course is dual enrolled through Mountain Gateway Community College.

Grade Level(s): 10, 11, 12

Credits: 2^W credits

Prerequisite(s): Students must earn a "C" or better in Criminal Justice I in order to enroll in Criminal Justice II. Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Criminal Justice I (8702, 8702D) Students are introduced to principles, techniques, and practices for pursuing careers within the criminal justice services system. Topics to be introduced include Rule of Law, policing crime scene investigation, the court system, juvenile justice and careers in criminal justice.

Criminal Justice II (8703, 8703D) Students will be provided a more in-depth look at the criminal justice system, with emphasis on communication skills, arrest procedures, and collection of physical evidence. Students will get a firsthand look at the courts through observation of actual court proceedings in local courts. They will also participate in field experience outings to the Botetourt County Sheriff's Office and the local probation and parole office. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3

CYBERSECURITY

Offered: BTEC

Grade Level(s): 11, 12

Credits: 2 credits

Prerequisite(s): Students must earn a "C" or better in Computer Systems Technology (CST) I and II in order to enroll in Cybersecurity. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Students will be enrolled in the following two courses which will be included on the high school transcript.

Program Course Descriptions:

Cybersecurity Fundamentals (6302) This course focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Upon successful completion of the course, students will have the opportunity to earn the Security Pro Certification through Test Out.

Cybersecurity Systems Technology(8624) Students explore foundational cybersecurity principles, security architecture, risk management, attacks, incidents and emerging technologies. Upon successful completion of the course, students will have the opportunity to earn the Security Pro Certification through Test Out.

ENGINEERING

Offered: BTEC

Grade Level(s): 9, 10, 11,12

Credits: Engineering and Mechatronics I - 2 credits
Engineering and Mechatronics II - 2 credits

Prerequisite(s): Students must earn a "C" or better in Engineering I to enroll in Engineering II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions: While these courses can be taken as a stand-alone elective, they also provide a foundation for students pursuing engineering or mechatronics degrees and certifications during their junior and/or senior year.

Engineering I (ENGI) - Students examine technology and engineering fundamentals in relation to solving real-world problems. Students investigate engineering history and they examine engineering specialty fields and related careers. Students apply the engineering design process in course projects. Students practice engineering fundamentals using mathematical and scientific concepts and participate in hands-on projects as they communicate information through team-based presentations, proposals and technical reports. Students compete in a robotics competition at Virginia Western Community College.

Engineering II (ENGII) - Level two of the engineering and mechatronics programs is designed for creative students with strong math skills. This program applies principles of science and mathematics to solve real world problems. The intent of this program is to provide students a sense of what the engineering profession encompasses while exposing them to engineering and math concepts to better prepare them for success in engineering programs at the undergraduate level.

INFORMATION SYSTEMS TECHNOLOGY (IST)

Offered: BTEC

Grade Level(s): 9, 10, 11, 12

Credits: IST I - 2 credits

IST II - 2 credits

IST III - 2 credits

Prerequisite(s): Students must earn a "C" or better in year Information Systems Technology I in order to enroll in Information Systems Technology II and III. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Information Systems Technology I (ISTI) Students explore careers in the information technology field (optional college credit available), develop multimedia skills using Photoshop and Blender and learn webpage design using HTML and CSS.

Information Systems Technology II (ISTII) Students use GameMaker Studio and Unity to begin their skills in game design development. Additionally this level allows students to learn Python to develop basic programming skills. Students will have an opportunity to earn an industry-recognized certification valuable to the field of information technology.

Information Systems Technology III (ISTIII) Information Systems Technology III allows students to further develop their game design skills in Unity and GameMaker Studio and advance their programming and web design skills using JavaScript. Students will have an opportunity to earn an industry-recognized certification valuable to the field of information technology.

MECHATRONICS

Offered: BTEC

Grade Level(s): 11,12

Credits: Mechatronics I – 2 credits

Mechatronics II – 4 credits

Prerequisite(s): Students must earn a "C" or better in Mechatronics I in order to enroll in Mechatronics II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Mechatronics I (8554) Students will learn about mechatronic systems in this series of courses. These systems are comprised of mechanical, electrical, and software systems. Mechatronics systems form the foundation of robotics, automation, and advanced manufacturing (such as 3D printing). The rapidly evolving area of mechatronics offers a variety of career options across many technological fields. Courses will include Technical Math I, Mechanisms, Materials and Processes, CAD; Robotics and Computer Methods in Engineering and Technology.

Mechatronics II (8555) Students will continue their mechatronics competencies and will complete the program with the opportunity to earn an industry-recognized Siemens's Level One certification. Courses will include Introduction to Mechatronics, Technical Math II, Applied Technology, Applied Hydraulics and Pneumatics, DC and AC Circuits and Automated Manufacturing Systems.

NURSE AIDE

Offered: BTEC This course is dual enrolled through Mountain Gateway Community College.

Grade Level(s): 11, 12

Credits: Nurse Aide I – 2^W credits

Nurse Aide II – 4^W credits

Prerequisite(s): Students must earn a "B" or better in Nurse Aide I in order to enroll in Nurse Aide II. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Program Course Descriptions:

Nurse Aide I (8360, 8360D) The Nurse Aide I program explores a variety of health careers. Students become certified in CPR. Emphasis is on theory in anatomy and physiology, growth and development, infection control, patient communication, healthcare delivery systems, and medical terminology in preparation for Nurse Aide II. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

Nurse Aide II (8362, 8362D) In Nurse Aide II students will gain clinical experience at different sites in the area. Upon successful completion of the second year, students will take the State Board Examination to become a Certified Nursing Assistant (CNA) and/or move into a post-secondary program. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

VETERINARY TECHNOLOGY (8084)

Offered: BTEC

Grade Level(s): 9, 10, 11, 12

Credit: 2 credits

Students will be enrolled in the following two courses which will be included on the high school transcript.

Program Course Descriptions:

Veterinary Technology I (8083) In this course, students learn how to care for and manage small animals, focus on animal health, nutrition, management, reproduction, and evaluation. Course content also includes instruction in the tools, equipment, and facilities for small animal care.

Veterinary Technology II - Small Animal Care (8084) Students will develop the knowledge and skills necessary for training and grooming companion animals, in line with required safety practices and protocols. Instruction includes grooming, required care, technical and maintenance functions related to animal health, animal first aid, and office-management procedures used in the companion animal care industry.

VIRGINIA TEACHERS FOR TOMORROW

Offered: BTEC

Grade Level(s): 11, 12

Credit: VTFT I – 1 credit

VTFT II – 1 credit

Prerequisite(s): Students must earn a “C” or better in the previous course to enroll in the next level. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence.

Program Course Descriptions:

Virginia Teachers for Tomorrow I (9062) This course introduces high school juniors and seniors to a career in teaching and education through the Career Connections program. The primary elements of the curriculum components are the learner, the school, and the teacher and teaching. The components are intentionally broad in scope and provide a great deal of flexibility based on the career interest of a student. In addition to the fundamental curriculum components, all students are required to participate in an internship outside the classroom. The internship may involve pre-school through grade 8.

Virginia Teachers for Tomorrow II (9072) In Virginia Teachers for Tomorrow II, students continue to explore careers in the education and training career cluster and related pathways. This course provides hands-on opportunities for students to examine careers in education, observe professional practice, and apply professional standards and educational theory. In an authentic practicum experience, students will be able to teach lessons, manage classrooms, create learning opportunities, and build their professional portfolio in the process.

WELDING

Offered: BTEC This course is dual enrolled through Mountain Gateway Community College.

Grade Level(s): 9, 10, 11, 12

Credits: Welding I - 2^W credits

Welding II – 4^W credits

Welding III - 4^W credits

Welding IV - 4^W credits

Prerequisite(s): Students must earn a “C” or better in the previous course to enroll in the next level. Students must have also completed the safety certification to enroll in Welding II and III. All Botetourt County Advanced Training Programs are highly competitive. Meeting the minimum course requirements does not guarantee enrollment in the next course sequence. **Students electing to take this course for dual enrollment credit MUST apply to the appropriate college and successfully meet GPA and/or placement testing requirements.**

Program Course Descriptions:

Welding I (8672, 8672D) Student's gain practical experience and entry level knowledge of shielded metal arc welding, oxy fuel cutting plasma arc cutting, gas metal arc welding, flux cored arc welding, general shop safety and a OSHA 10 credential. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

Welding II (8673, 8673D) Students are provided SP2 training review of safety, and work readiness skills, students act upon prior knowledge to hone previously learned welding skills and explore new and advanced welding and cutting techniques along with certifications in gas metal arc welding and flux cored arc welding. Students also experience entry level fabrication.

Welding III - Welding Fabrication I (8674, 8674D) Students increase fabrication knowledge as well as refine previously learned techniques and welding processes. Students gain experience working with industrial equipment such as the CNC plasma cutter, press brake, and shear. Additional welding certification opportunities are available. There is a School Board approved fee associated with this course. Refer to Policy JN-BR3.

Welding IV - Welding Fabrication II (8675) In this course, students will build advanced skills in welding, cutting and fabrication. Students will also work with industry fabrication equipment such as a metal brake, shear, CNC PAC, plus plate and ring rollers to build and fabricate parts. Students will be introduced to designing and engineering of projects.

SPECIAL EDUCATION COURSES

RESOURCE ASSISTANCE/STUDY SKILLS (135)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 0

Prerequisite(s): Student must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: Students will receive directed assistance (and/or additional time and guidance) in the completion of content-area assignments and requirements. Students must demonstrate appropriate effort and progress as they study, research, review, read, write and calculate on a daily basis in the resource room.

BASIC MATH I-IV (3200-3203)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 (Elective credit)

Prerequisite(s): Student must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: This course is designed for students to receive direct instruction at their current performance level and to assist in improving math skills. The course content includes the goals and objectives designated in the student's IEP. This class is for Applied Studies diploma candidates only. This class does not meet the requirements for Standard or Advanced Studies Diploma.

BASIC ENGLISH I-IV (1005-1008)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 (Elective credit)

Prerequisite(s): Student must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: This course is designed for students to receive direct instruction at their current performance level and to assist in improving skills in reading, writing, spelling, grammar, language and vocabulary. The course content includes the goals and objectives designated in the student's IEP. This class is for Applied Studies diploma candidates only. This class does not meet the requirements for Standard or Advanced Studies Diploma.

LINGUISTICS I-VIII (1015-1018, 1001-1004)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1 (Elective credit)

Prerequisite(s): Reading and writing performance significantly below grade level placement as indicated by formal assessments.

Course Description: This course is designed to provide students with intensive and coordinated reading instruction at their current performance level and to assist in improving skills in writing, spelling, grammar, language and vocabulary. The course content also includes the goals and objectives designated in the student's IEP.

INDEPENDENT LIVING I-IV (7894-7897)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Student must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: This course is designed for special education students and focuses on personal management, community living and functional academic skills. Class activities include lecture-demonstration, hands-on experiences and individual projects. The course content includes the goals and objectives designated in the student's IEP. This class is for Applied Studies diploma candidates only.

COMMUNITY-BASED WORK PROGRAM I-II (7888-7890, 7902)

Offered: JR, LB

Grade Level(s): 11, 12

Credits: 2

Prerequisite(s): Student must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: Students will work with area agencies in an appropriate school-to-work transition plan. This is a pass/fail course.

VOCATIONAL SKILLS I-IV (7898-7901)

Offered: JR, LB

Grade Level(s): 9, 10, 11, 12

Credit: 1

Prerequisite(s): Students must be eligible for special education services and the student's IEP must specify enrollment in the course.

Course Description: This course is designed to provide students with direct instruction in the area of vocational/work-related skills. This course will provide students with classroom experiences, which are specifically designed to assist students in becoming prepared for the world of work prior to or in conjunction with enrollment in the Community-Based Work Program course. Topics of study may include interpersonal job skills, productive work habits, job search skills, and skills specifically related to a potential job placement. The course content includes the goals and objectives designated in the student's IEP. This class is for Applied Studies diploma candidates only.