

BLAND COUNTY PUBLIC SCHOOLS



PROGRAM OF STUDIES

COURSE GUIDE

APPROVED BY SCHOOL BOARD 5/23/2011

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INTRODUCTION

The Program of Studies, written for Bland County students, parents, and other interested parties, contains information regarding course offerings and requirements. This information has been prepared to assist each student in selecting a program of studies that best suits individual goals.

In selecting a program of studies, students should recognize that employment and college admissions opportunities are highly competitive. The quality of the subjects studied and the caliber of the academic performance will be crucial factors in decisions made by employers and college admissions personnel. Therefore, it will be a decided advantage for students to select a program of studies that will present a challenge and will serve as a recommendation. As students develop their Career Plan, they should keep Virginia's graduation requirements in mind, consider program offerings, and weigh the advantages of a focused program of study.

STANDARD DIPLOMA: MINIMUM COURSE & CREDIT REQUIREMENTS

To graduate with a Standard Diploma, a student must earn at least 22 standard units of credit by passing required courses and electives, and earn at least six verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.

The school counselor can advise on available courses to fulfill the requirements for a Standard Diploma.

Courses Approved for the Standard, Standard Technical, Advanced Studies, and Advanced Technical Diplomas – Effective with Ninth-Grade Class of 2010-2011

Standard Diploma Course Requirements (8 VAC 20-131-50.B)

Discipline Area	Standard Credits Effective with ninth grade classes of 2003-04 through 2010-2011	Standard Credits Revised Standard Diploma Effective with ninth graders 2011-2012	Verified Credits - Effective for ninth graders: 2003-04 and beyond
English	4	4	2
Mathematics [Note 1]	3	3	1
Laboratory Science [Notes 2 & 6]	3	3	1
History & Social Sciences [Notes 3 & 6]	3	3	1
Health & Physical Education	2	2	
Fine Arts or Career & Technical Education	1		
Foreign Language, Fine Arts or Career & Technical Education [Note 7]		2	
Economics and Personal Finance Electives [Note 4]	6	4	
Student Selected Test [Note 5]			1
Total	22	22	6

NOTE 1

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: 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 above the level of Algebra II. The board shall approve courses to satisfy this requirement.

NOTE 2

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: Courses completed to satisfy this requirement shall include course selections 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. The board shall approve courses to satisfy this requirement.

NOTE 3

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one course in either world history or geography or both. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.

NOTE 4

For the 2010-2011 academic year and beyond: Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

NOTE 5

For the 2010-2011 academic year only: A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education or other areas as prescribed by the Board in 8 VAC 20-131-110.

Effective with the 2011-2012 academic year and beyond: A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110.

NOTE 6

Effective with the 2010-2011 academic year and beyond: 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 (1) the student selected verified credit and (2) either a science or history or 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 of Education as an additional test to verify student achievement.

NOTE 7

Effective with the 2011-2012 academic year and beyond: Pursuant to Section 22.1-253.13:4, Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

Electives

Sequential Electives – Effective with the graduating class of 2003, students who wish to receive a Standard or Modified Standard Diploma must successfully complete two sequential electives. On February 5, 2002, the Board of Education approved [Guidelines for Sequential Electives for the Standard and Modified Standard Diploma](#) (PDF).

Sequential electives may be in any discipline as long as the courses are not specifically required for graduation.

Courses used to satisfy the one unit of credit in a fine arts or career and technical education course may be used to partially satisfy this requirement.

For career and technical education electives, check with the Office of Career and Technical Education at (804) 225-2051.

An exploratory course followed by an introductory course may not be used to satisfy the requirement.

An introductory course followed by another level of the same course of study may be used.

Sequential electives do not have to be taken in consecutive years.

Fine Arts and Career and Technical Education – The Standard, Advanced Studies, and Modified Standard Diplomas each contain a requirement for one standard unit of credit in Fine Arts or Career and Technical Education. The Standards of Accreditation do not require that courses used to satisfy the requirement of Fine Arts or Career and Technical Education be approved by the Board. Therefore, local school officials should use their own judgment in determining which courses students take to satisfy the requirement of a unit of credit in Fine Arts or Career and Technical Education for the Standard, Advanced Studies, and Modified Standard Diplomas.

ADVANCED STUDIES DIPLOMA: MINIMUM COURSE & CREDIT REQUIREMENTS

To graduate with an Advanced Studies Diploma, a student must earn at least 24 standard units of credit and at least 9 verified units of credit. The school counselor can advise on available courses to fulfill the requirements for an Advanced Studies Diploma.

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

Courses Approved for the Standard, Standard Technical, Advanced Studies, and Advanced Technical Diplomas – Effective with Ninth-Grade Class of 2010-2011.

Advanced Studies Diploma Course Requirements (8 VAC 20-131-50.C)			
Discipline Area	Standard Credits Effective with ninth grade classes of 2003-04 through 2010-2011	Standard Credits Revised Advanced Studies Diploma Effective with ninth graders in 2011-2012	Verified Credits - Effective with ninth graders in 2000-01 and later
English	4	4	2
Mathematics [Note 1]	4	4	2
Laboratory Science [Note 2]	4	4	2
History & Social Sciences [Note 3]	4	4	2
Foreign Languages [Note 4]	3	3	
Health & Physical Education	2	2	
Fine Arts or Career &	1	1	

Technical Education			
Economics and Personal Finance		1	
Electives	2	3	
Student Selected Test [Note 5]			1
Total	24	26	9

NOTE 1

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: 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.

NOTE 2

For the 2010-2011 academic year only: 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. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: 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. The board shall approve courses to satisfy this requirement.

NOTE 3

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and two courses in either world history or geography or both. The Board may approve additional courses to satisfy this requirement.

Effective with the 2011-2012 academic year and beyond: Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and two courses

in either world history or geography or both. The board shall approve courses to satisfy this requirement.

NOTE 4

For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

NOTE 5

For the 2010-2011 academic year only: A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education or other areas as prescribed by the Board in 8 VAC 20-131-110.

Effective with the 2011-2012 academic year and beyond: A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110.

Electives

Fine Arts and Career and Technical Education – The Standard, Advanced Studies, and Modified Standard Diplomas each contain a requirement for one standard unit of credit in Fine Arts or Career and Technical Education. The Standards of Accreditation do not require that courses used to satisfy the requirement of Fine Arts or Career and Technical Education be approved by the Board. Therefore, local school officials should use their own judgment in determining which courses students take to satisfy the requirement of a unit of credit in Fine Arts or Career and Technical Education for the Standard, Advanced Studies, and Modified Standard Diplomas.

Foreign Language—The Advanced Studies Diploma contains a requirement for either three years of one foreign language or two years of two languages. In March 1998, the Board of Education approved the provision of three years of instruction in American Sign Language (ASL) for foreign language credit toward an Advanced Studies Diploma; other foreign languages will satisfy this requirement as well. Details of this action are available in: [Superintendent's Memo](#), Interpretive, #1, June 12, 1998.

MODIFIED STANDARD DIPLOMA: MINIMUM COURSE & CREDIT REQUIREMENTS

The Modified Standard Diploma is intended for certain students at the secondary level who have a disability and are unlikely to meet the credit requirements for a Standard Diploma. Eligibility and participation in the program are determined by the student's IEP team and the student, when appropriate. Decisions of eligibility and participation may be made at any point after the student's eighth grade year. Written consent from parent/guardian must be obtained for a student to choose this diploma program.

The student must:

- be allowed to pursue a Standard or Advanced Studies Diploma at any time throughout his or her high school career;
- not be excluded from courses and tests required to earn a Standard or Advanced Studies Diploma; and pass literacy and numeracy competency assessments as prescribed by the Board:

For students who entered the ninth grade prior to 2000-01, the literacy and numeracy competency assessments were the reading and mathematics subtests of the LPT.

For students who entered the ninth grade in 2000-01 and beyond, the literacy and numeracy competency assessments are the eighth-grade English Reading test and the eighth-grade Mathematics SOL test (Board action – November 30, 2000).

The Board also approved four additional substitute assessments to satisfy the literacy and numeracy requirements for students pursuing a Modified Standard Diploma.

[Substitute Numeracy and Literacy Tests for the Modified Standard Diploma](#)

Superintendent's Memo – Informational #53, March 5, 2004

Courses Approved for the Standard, Standard Technical, Advanced Studies, and Advanced Technical Diplomas – Effective with Ninth-Grade Class of 2010-2011.

Modified Standard Diploma Course Requirements (8 VAC 20-131-50.D)	
Discipline Area	Standard Credits
English	4
Mathematics [Note 1]	3
Laboratory Science [Note 2]	2
History & Social Sciences [Note 3]	2
Health & Physical Education	2
Fine Arts or Career & Technical Education	1
Electives [Note 4]	6
Total	20

NOTE 1:

Courses completed to satisfy this requirement shall include content from among applications of algebra, geometry, personal finance and statistics in courses that have been approved by the Board.

NOTE 2:

Courses complete shall include content from at least two of the following: applications of earth science, biology, chemistry, or physics in courses approved by the Board.

NOTE 3:

Courses completed to satisfy this requirement shall include one unit of credit in U.S. and Virginia History and one unit of credit in U.S. and Virginia Government in courses approved by the Board.

NOTE 4:

Courses to satisfy this requirement shall include a least two sequential electives in the same manner required for the Standard Diploma.

Electives

Sequential Electives – Effective with the graduating class of 2003, students who wish to receive a Standard or Modified Standard Diploma must successfully complete two sequential electives. On February 5, 2002, the Board of Education approved [Guidelines for Sequential Electives for the Standard and Modified Standard Diploma](#) (PDF).

Sequential electives may be in any discipline as long as the courses are not specifically required for graduation.

Courses used to satisfy the one unit of credit in a fine arts or career and technical education course may be used to partially satisfy this requirement.

For career and technical education electives, check with the Office of Career and Technical Education at (804) 225-2051.

An exploratory course followed by an introductory course may not be used to satisfy the requirement.

An introductory course followed by another level of the same course of study may be used.

Sequential electives do not have to be taken in consecutive years.

Fine Arts and Career and Technical Education – The Standard, Advanced Studies, and Modified Standard Diplomas each contain a requirement for one standard unit of credit in Fine Arts or Career and Technical Education. The Standards of Accreditation do not require that courses used to satisfy the requirement of Fine Arts or Career and Technical Education be approved by the Board. Therefore, local school officials should use their own judgment in determining which courses students take to

satisfy the requirement of a unit of credit in Fine Arts or Career and Technical Education for the Standard, Advanced Studies, and Modified Standard Diplomas.

TECHNICAL DIPLOMAS

Standard Technical Diploma

Beginning with the ninth-grade class of 2011-2012 and beyond, a student may earn a Standard Technical Diploma. Specific information on the requirements is available in paragraph C of [8VAC 20-131-50](#).

Standard Technical Diploma Course Requirements (8 VAC 20-131-50.)		
Discipline Area	Standard Credits – Standard Technical Diploma	Verified Credits
English	4	2
Mathematics	3	1
Laboratory Science	3	1
History & Social Science	3	1
Health & Physical Education	2	
Fine Arts or Foreign Language	1	
Economics and Personal Finance	1	
CTE	4	
Electives	1	
Student Selected		1
Total	22	6

Advanced Technical Diploma

Beginning with the ninth-grade class of 2011-2012 and beyond. Specific information on the requirements is available in paragraph E of [8VAC 20-131-50](#).

Advanced Technical Diploma Course Requirements (8 VAC 20-131-50.)		
Discipline Area	Standard Units – Advanced Technical Diploma	Verified Credits
English	4	2
Mathematics	4	2
Laboratory Science	4	2
History & Social Science	4	2
Health & Physical Education	2	
Foreign Language	3	
Fine Arts or CTE	1	
Economics and Personal Finance	1	
CTE	3	
Electives		
Student Selected		1
Total	26	9

Approved Courses

Courses Approved for the Standard, Standard Technical, Advanced Studies, and Advanced Technical Diplomas – Effective with Ninth-Grade Class of 2010-2011

OTHER DIPLOMAS & CERTIFICATES

Special Diploma—Available to students with disabilities who complete the requirements of their IEP and who do not meet the requirements for other diplomas.

Certificate of Program Completion

Available to students who complete prescribed programs of studies defined by a local school board but who do not qualify for diplomas.

AGRICULTURE DEPARTMENT

COURSE: AGRISCIENCE AND TECHNOLOGY
NUMBER: 8004
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

This course is designed as an exploratory course. Through laboratory activities, students apply scientific principles to the field of agriculture, including plants, animals, and ecology/conservation. The course introduces students to biotechnology as it relates to agriculture.

COURSE: FOUNDATIONS OF AGRICULTURE, FOOD, AND NATURAL RESOURCES
NUMBER: 8006
GRADE LEVEL: 8, 9
PREREQUISITES: NONE
CREDIT: 1

This course is designed to develop competencies in each of the career pathways as they pertain to agricultural education, including the areas of Virginia's agriculture industry; the global scope of agriculture; scientific research concepts in plant, animal, and food science; principles of leadership and opportunities within student organizations; agribusiness and supervised agricultural experience program opportunities; agricultural skills and safety in power, structural, and technical systems; and natural resources and environmental systems.

COURSE: AGRICULTURAL MECHANICS AND BASIC ANIMAL SCIENCE
NUMBER: 8008
GRADE LEVEL: 9, 10, 11
PREREQUISITES: NONE
CREDIT: 1

Agricultural Mechanics and Basic Animal Science is a one-year, single period, occupational preparation course usually offered at the ninth grade level. Approximately one-half of the course is devoted to agricultural mechanics with emphasis placed on skill development in fundamentals of electricity, arc welding, gas cutting and welding, small engines, power woodworking, and wood and metal preservation. Instruction is also provided in animal science and further development of competencies in rural and urban living, leadership, and resource conservation.

COURSE: AGRICULTURAL PRODUCTION TECHNOLOGY
NUMBER: 8010
GRADE LEVEL: 10, 11, 12
PREREQUISITES: AGRICULTURAL MECHANICS AND BASIC ANIMAL SCIENCE
CREDIT: 1

Agricultural Production Technology is a one-year occupational preparation course offered at the tenth or eleventh grade level. When only single periods are provided, greater emphasis is placed on individualized instruction and supervised occupational-experienced programs. The major emphasis in

the agricultural production program is the attainment of competencies in one or more areas of plant science, animal science, soil science, agricultural business management, and agricultural mechanization, based upon the student's employment objective. The course includes appropriate instruction in agricultural mechanics, crop production, farm family living, and basic farm management. Supervised occupational-experienced programs and leadership training are important parts of the course.

COURSE: AGRICULTURAL PRODUCTION MANAGEMENT
NUMBER: 8012
GRADE LEVEL: 11, 12
PREREQUISITES: AGRICULTURAL PRODUCTION TECHNOLOGY
CREDIT: 1

Agricultural Production Management is a one-year occupational course offered at the eleventh or twelfth grade level. The course includes instruction in agricultural mechanics, with emphasis placed on the application of mechanical skills to farm power and machinery, soil and water management, supervised farming programs, and leadership training.

COURSE: OPERATING THE FARM BUSINESS
NUMBER: 8014
GRADE LEVEL: 12
PREREQUISITES: AGRICULTURAL PRODUCTION MANAGEMENT
CREDIT: 1

Operating the Farm Business is a one-year occupational preparation course offered at the twelfth grade level. Much of the instruction may be provided through individualized instruction. Emphasis is placed on establishment in farming, farm management, and occupational experience. Students receive instruction in adjusting, operating, and maintaining farm machinery and equipment and in planning and construction of farm buildings and facilities. Continued emphasis is placed on leadership training.

COURSE: HORTICULTURE SCIENCES
NUMBER: 8034
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They receive instruction in using soil and other plant growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory. Instruction is provided in safety practices and leadership development.

COURSE: INTRODUCTION TO NATURAL RESOURCES AND ECOLOGY SYSTEMS
NUMBER: 8040
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

This course serves as the introductory level course for the Natural Resources Career Pathway. Students will explore the study of natural resources and begin to develop skills and knowledge required for employment in occupations related to forestry, wildlife and natural resources management, and conservation.

ART DEPARTMENT

COURSE: ART I/ART FOUNDATIONS
NUMBER: 9120
GRADE LEVEL: 8, 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Foundation Art I is a general art course that covers the main fields of art, such as drawing, painting, printmaking, architecture, sculpture, and crafts. Students will be introduced to a variety of media and encouraged to work in a serious studio environment. Emphasis is placed on the basic art elements of line, color, shape, value, texture, and space. A general survey of art history and artists is also a part of this course, and emphasis is placed on the development of art appreciation.

COURSE: ART II/INTERMEDIATE
NUMBER: 9130
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: ART I
CREDIT: 1

Art II is a continuation of Art I providing instruction in basic art theory, studio, art history, aesthetics and critique. Instruction will also include the use of skills and techniques specifically relevant to drawing, painting, sculpture, composition and application of elements and principals of design. Personal interests and creativity will also be factors in the creation of art work and projects. Students will be required to use problem solving, communication and time management skills. The course is structured to provide real-world applied projects and assignments.

COURSE: ART III/ADVANCED INTERMEDIATE
NUMBER: 9140
GRADE LEVEL: 10, 11, 12
PREREQUISITES: ART II
CREDIT: 1

Art III is an advanced art course providing experienced art students with an opportunity to apply their knowledge of basic art and design theory, drawing and painting skills. Students will also exercise their

ability to make analytical, critical judgments and choices regarding composition and design. Students will demonstrate their abilities for college entrance, art school or employment in the visual art field. Content requires use of problem solving, communication and time management skills. Students should have a high interest level and be able to work independently on challenging projects.

COURSE: ART IV/ADVANCED
NUMBER: 9145
GRADE LEVEL: 11, 12
PREREQUISITES: ART III
CREDIT: 1

The Art IV standards are designed to help students reinforce competence and confidence in skills of analysis, evaluation, and creation of works of art. Content and concepts associated with art criticism and aesthetics are central to the refinement of art production skills, and the student-directed approach at this level richly enhances personal expressive abilities. Visual communication and production, cultural context and art history, judgment and criticism, and aesthetics remain the foundation areas of standards, and an advanced level of performance in each is expected. The students will continue to maintain a portfolio, and the culminating portfolio must give evidence of quality, concentration, and breadth of work produces throughout the high school art program.

COURSE: CERAMICS I
NUMBER: 9175
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Ceramics develops basic skills in the creation of 3D forms of pottery and sculpture from clay. With an emphasis on studio techniques, this course is designed to develop higher-level thinking, art related technology skills, art criticism, art history and aesthetics. Students work will emphasize the importance of content, concepts, and skills involved in the creation of original works of art with emphasis in the elements of art and principals of design. Students work must show evidence of quality, concentration and breadth.

COURSE: GRAPHIC ARTS DESIGN I, II
NUMBER: 9153, 9154
GRADE LEVEL: 9, 10, 11, 12/10, 11, 12
PREREQUISITES: NONE/GRAPHIC ARTS DESIGN I
CREDIT: 1

From postage stamps to giant billboards, movie posters, architecture, automobiles, and fashion, graphic art creates our environment and our world. Understanding how to apply basic design concepts to the presentation of everyday objects is crucial to visually communicating with other people. Typography, image, space, color, and form will be integrated as the term progresses. The main emphasis of the course will be on students and their work. By actually working, taking risks, experimenting, making mistakes and creating, the students will learn various design problem-solving skills and techniques.

COURSE: GRAPHIC ARTS DESIGN III
NUMBER: 9155
GRADE LEVEL: 11, 12
PREREQUISITES: GRAPHIC ARTS DESIGN I AND II
CREDIT: 1

This course will allow students the opportunity to learn the application of illustration, typography, and graphic design to commercial applications. Students will use problem-solving skills as a critical thinking process. Students will also demonstrate an understanding of the use and purposes of different graphic arts methods and processes. Lab and personal management skills will be acquired and developed throughout the duration of the course.

COURSE: DUAL ENROLLMENT ART HISTORY
NUMBER: 9170
GRADE LEVEL: 11, 12
PREREQUISITES: NONE
CREDIT: 1

This course offers a chronological survey of Western art from the dawn of civilization to the present time, including the most modern trends and ideas in the ever changing world of art. Although there is an effort to involve students with images and ideas that lie outside the Western tradition, the larger context in which these images are discussed is Western. There are seven basic course objectives. As a survey course, the material is approached as an introduction to the discipline. This course is also intended to prepare students for the AP Art History Exam.

BUSINESS DEPARTMENT

COURSE: KEYBOARDING APPLICATIONS
NUMBER: 6152
GRADE LEVEL: 8, 9, 10, 11, 12
CREDIT: 1

Keyboarding Applications is a course offered for all students. Students develop skills in touch keyboarding and correct manipulation of the keyboard. Keyboarding Applications is a basic communications course with emphasis on the application of keyboarding skills to produce a variety of personal and business documents.

COURSE: OFFICE ADMINISTRATION
NUMBER: 6621
GRADE LEVEL: 10, 11, 12
CREDIT: 1

Office Administration is a course with emphasis on enhancing word processing and communication skills. Students will develop competencies needed by administrative support professionals. Office procedures, such as machine dictation and transcription, telecommunications, electronic records management, and financial records management will be studied during the course.

COURSE: WORD PROCESSING
NUMBER: 6625
GRADE LEVEL: 11, 12
PREREQUISITES: KEYBOARDING APPLICATIONS
CREDIT: 1

Word Processing is a course in which students develop intermediate to advanced level word processing skills using a variety of software functions, including graphics, desktop publishing and telecommunications. Students gain competence integrating other applications, such as database and spreadsheet into word processing activities. Classroom experiences also provide for skill development in communication.

COURSE: ACCOUNTING
NUMBER: 6320
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Accounting is a course with emphasis on basic principles, concepts, and practices of the accounting cycle. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash systems. Ethics and professional conduct are emphasized. Students learn fundamental accounting procedures using both manual and electronic systems.

COURSE: ADVANCED ACCOUNTING
NUMBER: 6321
GRADE LEVEL: 11, 12
PREREQUISITES: ACCOUNTING
CREDIT: 1

Students gain knowledge of advanced accounting principles, procedures, and techniques used to solve business problems and to make financial decisions. Students use accounting and spreadsheet software to analyze, synthesize, evaluate, and interpret business financial data. Students work in a technology-integrated environment using authentic workplace industry scenarios that reflect current industry trends and standards.

COURSE: COMPUTER INFORMATION SYSTEMS (CIS)
NUMBER: 6612
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: KEYBOARDING APPLICATIONS
CREDIT: 1

Computer Information Systems is a course where students will apply problem-solving skills to real-life situations through word processing, spreadsheet, and database software, and through integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies.

COURSE: ADVANCED COMPUTER INFORMATION SYSTEMS
NUMBER: 6613
GRADE LEVEL: 10, 11, 12
PREREQUISITES: COMPUTER INFORMATION SYSTEMS
CREDIT: 1

Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic, and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, web site development, programming, networking, emerging technology, and employability skills.

COURSE: ECONOMICS AND PERSONAL FINANCE
NUMBER: 6120
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principals will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the 36-week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B

ENGLISH DEPARTMENT

COURSE: ENGLISH 8
NUMBER: 1120
GRADE LEVEL: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

English 8 is a course designed to improve each student's ability to read, write, speak and listen. Emphasis is placed on developing reading skills through the study of literature and the practice of comprehensive and thinking skills. Basic grammar skills are introduced and developed through the use of the computer skills software and through student writing. Composition encompasses personal, creative, and technical writing.

COURSE: ENGLISH 9
NUMBER: 1130
GRADE LEVEL: 9
PREREQUISITES: ENGLISH 8
CREDIT: 1

English 9 is an integrated study of literature, composition, and grammar. Students will also present dramatic readings of literary selections and continue to develop proficiency in making planned oral

presentations. Students will critique significant literary works from a variety of cultures and eras. Students' writing will encompass narrative, literary, expository, and technical forms, emphasizing the rules of standard English. They will use word processors, electronic databases, and a standard style sheet method to cite reference sources. Applied communication skills will be introduced.

COURSE: ENGLISH 10
NUMBER: 1140
GRADE LEVEL: 10
PREREQUISITES: ENGLISH 9
CREDIT: 1

English 10 increases the students' knowledge of the world through emphasis on world literature. Students will read and critique short stories, novels, drama, and poetry from a variety of eras and cultures. Students will analyze printed consumer information, develop reading analysis skills, and utilize problem-solving strategies. Students will be taught how to produce well-organized expository papers and workplace writing which conform with the rules of standard English. They will improve their research skills by using available technology. In all facets of study, students will participate in small group-learning activities.

COURSE: ENGLISH 11
NUMBER: 1150
GRADE LEVEL: 11
PREREQUISITES: ENGLISH 10
CREDIT: 1

English 11 is a survey of American literature with an in-depth analysis of the works of major authors. Students will develop writing skills through formal and informal essays related to the literature, critical reviews of supplemental reading, and the development of a research paper. Sentence expansion, word usage, and vocabulary are emphasized, and mechanics are stressed. Students will read technical literature critically, as well as American literature, and will write technically for a publication.

COURSE: ENGLISH 12
NUMBER: 1160
GRADE LEVEL: 12
PREREQUISITES: ENGLISH 11
CREDIT: 1

This course concentrates on English literature and composition. Poetry, drama, and short fiction from the Anglo-Saxon to the Twentieth Century Periods will be studied. Advanced grammar study supplements the writing of compositions. Literary analysis, persuasion, and logic will be included in compositions and oral communications. Grammar and mechanics are reviewed, and vocabulary is continually emphasized. Grammar and composition will also be studied with emphasis on revision for accuracy and clarity of technical writing.

**COURSE: DUAL-ENROLLMENT ENGLISH 111/112
(WYTHEVILLE COMMUNITY COLLEGE)**
NUMBER: 1600
GRADE LEVEL: 12
PREREQUISITES: ENGLISH 11 AND WCC PLACEMENT TESTING
CREDIT: 1 (6 HOURS COLLEGE CREDIT)

Dual-Enrollment English 111/112 is designed for students who will attend a four-year college or university. It emphasizes the major literary genres. Students write lengthy literary critiques about most of the studied works, and they also write a documented literary research paper. This course is intended to be equivalent to a college composition course and earns six hours of college credit.

COURSE: PHOTOJOURNALISM I, II
NUMBER: 1215, 1216
GRADE LEVEL: 11, 12
**PREREQUISITES: PASS ENGLISH 9, 10, 11, (AS APPROPRIATE)
AND QUALIFY ON A SCORED INTERVIEW**
CREDIT: 1

Photojournalism is responsible for maintaining the school website, publishing the student newspaper, and producing the school's broadcast news show. Applied technology skills include, but not limited to, desktop publishing using various computer programs, video and audio production, and website creation and maintenance. Students will learn to become problem-solving and project oriented workers. The class will reflect the real world. Assessment will be time and portfolio based.

**COURSE: LOCAL ENGLISH ELECTIVE II/SAT & ACT
PREPARATION/CREATIVE WRITING/PUBLIC SPEAKING**
NUMBER: 1516
GRADE LEVEL: 9-12
PREREQUISITES: NONE
CREDIT: 1

In preparation for SAT/ACT exam, students will work in a small classroom environment to better understand the content given on the exam. Students will review the official tests taken in previous years, cover all areas of the test through classroom work, and understand how to be efficient during the actual exam. The Creative Writing portion of the course will focus on the study and composition of short stories, plays, personal experience essays, and various types of poetry. Students will enhance their writing skills as they develop original works and take them through the writing process. The Public Speaking section will provide students the ability to speak confidently and deliver a persuasive message with essential skills for today's business professionals. Students will be given the opportunity to significantly improve public speaking skills by practicing and delivering speeches and presentations with personalized feedback.

FOREIGN LANGUAGE DEPARTMENT

TO RECEIVE AN ADVANCE STUDIES DIPLOMA, STUDENTS ARE REQUIRED TO EARN THREE (3) UNITS OF ONE FOREIGN LANGUAGE OR TWO (2) UNITS OF EACH OF TWO LANGUAGES.

COURSE: SPANISH I
NUMBER: 5510
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

In Spanish I, students begin to develop communicative competence in Spanish and expand their understanding of the culture(s) of Spanish-speaking countries. Emphasis is placed on use of Spanish in the classroom and on use of authentic materials to learn about the culture. Students develop a greater understanding of the structure of their own language and the unique aspects of their own culture. An important component of learning Spanish is using the language in the real world beyond the classroom setting. This can be accomplished in a number of ways through integration of technology into the classroom, as technology is an important means of accessing authentic information in Spanish and in providing students the opportunity to interact with native Spanish speakers.

COURSE: SPANISH II
NUMBER: 5520
GRADE LEVEL: 10, 11, 12
PREREQUISITES: SPANISH I
CREDIT: 1

In Spanish II, students continue to develop their communicative competence by interacting orally and in writing with other Spanish speakers, understanding oral and written messages in Spanish, and making oral and written presentations in Spanish. They begin to show a greater level of accuracy when using basic language structures, and they are exposed to more complex features of the Spanish language. They continue to focus on communicating about their immediate world and daily activities. They read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on use of Spanish in the classroom as well as on use of authentic materials to learn about Spanish-speaking cultures..

COURSE: SPANISH III
NUMBER: 5530
GRADE LEVEL: 11, 12
PREREQUISITES: SPANISH II
CREDIT: 1

Spanish III continues to stress communicative competency. Students interact orally and in writing with other Spanish speakers, they understand oral and written messages in Spanish and they make oral and written presentations in Spanish. Students communicate on a variety of topics at a level commensurate with their study, using more complex structures in Spanish and moving from concrete to more abstract concepts. They comprehend the main ideas of authentic materials that they listen to and read and are

able to identify significant details when the topics are familiar. Students develop the ability to discuss in Spanish topics related to historical and contemporary events and issues.

COURSE: SPANISH IV
NUMBER: 5540
GRADE LEVEL: 12
PREREQUISITES: SPANISH III
CREDIT: 1

This course is recommended only for the serious language student. These students must demonstrate that they are highly motivated to learn and have the ability to work independently. Spanish IV students comprehend spoken and written Spanish texts from a variety of authentic sources as well as produce compositions containing well-developed ideas on various topics. Students use Spanish to access information in other subject areas and to compare and contrast cultural elements found in Spanish-speaking countries with those found in their own. This course continues to refine the basic skills of listening, speaking, reading, and writing with more advanced materials in Spanish literature, drama, art and history.

HISTORY AND SOCIAL SCIENCE DEPARTMENT

COURSE: WORLD GEOGRAPHY
NUMBER: 2210
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: 1

By studying geography, students are able to see, understand, and appreciate the web of relationships among people, places and environments. World Geography is presented as a science in which the physical, cultural, political, economic, and historical components of the subject are studied. Characteristics of the world's regions and sub-regions, along with the interrelationship between environment and culture, are examined. Emphasis is placed on the development of map and globe skills, chart and graph interpretation, and critical thinking skills. Also, current events are used to study world problems.

COURSE: WORLD HISTORY AND GEOGRAPHY PART I
NUMBER: 2219
GRADE LEVEL: 9
PREREQUISITES: WORLD GEOGRAPHY
CREDIT: 1

This course will enable students to explore the geographical influences on history, historical development of people, places, and patterns of life from ancient times until 1500 a.d. in terms of the impact on Western civilization. The study of history rests on knowledge of dates, names, places, events, and ideas. Historical understanding, however, requires students to engage in historical thinking, raise questions, and marshal evidence in support of their answers. Students engage in historical thinking draw upon chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and decision-making. These skills are developed through the study of significant historical substance from the era or society being studied.

COURSE: WORLD HISTORY AND GEOGRAPHY PART II
NUMBER: 2221
GRADE LEVEL: 10
PREREQUISITES: WORLD HISTORY AND GEOGRAPHY PART I
CREDIT: 1

This course will enable students to examine history and geography from 1500 a.d. to the present, with 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 nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues.

COURSE: MIDDLE SCHOOL GEOGRAPHY/HISTORY
NUMBER: 2359
GRADE LEVEL: 8
PREREQUISITE: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

One section of this course focuses on the geography and history of the United States and Canada. Students will first focus on map skills. Following this, students will compare and contrast the countries of the United States and Canada in relation to size, physical features, and cultures. Finally, students will learn local history and geography, with emphasis placed on Bland County.

COURSE: VIRGINIA AND UNITED STATES HISTORY
NUMBER: 2360
GRADE LEVEL: 11
PREREQUISITES: NONE
CREDIT: 1

This course examines the history of the United States from early colonization throughout modern times. Students will learn pivotal events in American history, including but not limited to: the Revolutionary War, Louisiana Purchase, Civil War, Westward Expansion, Industrial Revolution, Immigration, Spanish-American War, WWI, Roaring Twenties, Great Depression, WWII, Post WWII Era, Korean War, Vietnam War, Civil Rights Movement, and modern times.

COURSE: VIRGINIA AND UNITED STATES GOVERNMENT
NUMBER: 2440
GRADE LEVEL: 12
PREREQUISITES: NONE
CREDIT: 1

Virginia and United States Government, a required course, is a study of modern world political and economic systems. Western political thinking and the foundations of Virginia and American government are studied. Current events and local government are also emphasized through the utilization of field trips, resource persons, and active student participation.

COURSE: LOCAL HISTORY AND TECHNOLOGY
NUMBER: 2996
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Local History and Technology is an elective course that covers Bland County History, the management of the Bland County History Archives, and the integration of a wide range of computer skills in this process. A cross platform of the Wintel and Mac operating systems will be used during the course. Computer skills employed will include telecommunications, web site creation, multimedia, scanning and OCR software, graphics, word processing, databases, and desktop publishing. Real life issues will be dealt with in real time. The student, upon completion of Local History and Technology, will have a knowledge of Bland County History, a full range of computer skills, and organizational and information management experience.

COURSE: DUAL ENROLLMENT VIRGINIA/U.S. HISTORY (WCC)
NUMBER: 2951
GRADE LEVEL: 11
PREREQUISITES: WORLD HISTORY & WCC PLACEMENT TESTING
CREDIT: 1 (6 HOURS COLLEGE CREDIT)

This course examines the history of the United States from early colonization throughout modern times. Students will learn pivotal events in American history, including but not limited to: the Revolutionary War, Louisiana Purchase, Civil War, Westward Expansion, Industrial Revolution, Immigration, Spanish-American War, WWI, Roaring Twenties, Great Depression, WWII, Post WWII Era, Korean War, Vietnam War, Civil Rights Movement, and modern times. In addition to learning material required for passing the Virginia Standards of Learning test, students will also be required to complete several projects/presentations throughout the year.

COURSE: SOCIOLOGY
NUMBER: 2500
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Sociology is the study of major social problems and their causes, effects, and possible solutions. Students will identify propaganda techniques and will study group dynamics. Criminal justice, social diversity, and personal values will also be examined.

MATHEMATICS DEPARTMENT

COURSE: MATH 8
NUMBER: 3112
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

This course is the foundation for high school mathematics and provides the transition from elementary to high school mathematics. It is a bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, introducing functions through linear equations, finding probability, and using geometric formulas to solve real world applications of mathematics.

COURSE: ALGEBRA I
NUMBER: 3130
GRADE LEVEL: 8, 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

This course includes types of numbers, algebraic vocabulary, properties and operations of numbers, simplifying expressions, solving equations and inequalities, and graphing. Finding and using prime factors, square roots, repeating decimals, as well as using polynomials, rational expressions, and radicals are also part of this course. Mastery of graphing, solving equations with two variables, and solving quadratics is required.

COURSE: GEOMETRY
NUMBER: 3143
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: ALGEBRA I
CREDIT: 1

The geometry course is a one-year mathematics course that includes both plane geometry and three-dimensional geometry. The course is considered necessary to demonstrate a reasonable knowledge of mathematics for students who plan to pursue a college education. Simple algebraic equations are integrated into the course and presented as a means of solving some geometry problems. Geometric proofs and problem solving develop analytical reasoning skills and improve the ability to apply logic to analysis of problems.

COURSE: ALGEBRA II
NUMBER: 3135
GRADE LEVEL: 10, 11, 12
PREREQUISITES: ALGEBRA I
CREDIT: 1

Algebra II is mandatory for students seeking the Advanced Studies Diploma and for those students planning a higher education in math or science. Concepts of Algebra I are reviewed and strengthened.

Emphasis will be placed on the study of complex numbers, coordinate geometry, linear systems, functions, conic sections, logarithms, and an introduction to progressions and series.

COURSE: ADVANCED MATH
NUMBER: 3160
GRADE LEVEL: 11, 12
PREREQUISITES: ALGEBRA II
CREDIT: 1

Advanced Algebra and Trigonometry is a course that includes an extensive and comprehensive treatment of trigonometry. The course includes algebra topics not covered in previous courses, such as analytical geometry; exponential and logarithmic functions; sequences and series; matrix algebra and determinants. The course is designed as preparation for math analysis or for freshman mathematics in college.

COURSE: PRE-CALCULUS
NUMBER: 3170
GRADE LEVEL: 12
PREREQUISITES: ADVANCED ALGEBRA AND TRIGONOMETRY
CREDIT: 1

Pre-Calculus is used to further enhance what the student has learned in Advanced Algebra and Trigonometry. This class can be a bridge to Calculus for the students who take Advanced Algebra and Trigonometry as a Junior. If time and the students' progress allows, we can introduce 6-12 weeks of Calculus.

COURSE: CALCULUS
NUMBER: 3178
GRADE LEVEL: 12
PREREQUISITES: PRE-CALCULUS
CREDIT: 1

Calculus is designed to develop skill and concepts that will be needed by pre-engineering college students. It includes functions, limits, derivations, differentials, and the applications of these concepts.

MUSIC DEPARTMENT

COURSE: BEGINNING BAND, ADVANCED BAND
NUMBER: 9232, 9234
GRADE LEVEL: 8, 9, 10, 11, 12
PREREQUISITES: NONE FOR BEGINNING BAND;
CREDIT: 1 (MAY BE REPEATED)

This course emphasizes basic musical skills and their use in the performance of band music. Students also learn how to march and use the marching skills for both field shows and parades. Competition in concert and marching band may be stressed for the musical growth of the organization. Public performance is an integral part of the band program and out-of-school activities may be required of

participants. This course may be divided into symphonic (advanced) band and intermediate band, with students placed by audition.

COURSE: MUSIC APPRECIATION/HISTORY/THEORY
NUMBER: 9222
GRADE LEVEL: 9-12
PREREQUISITES: NONE
CREDIT: 1

The purpose of this course is to help students have a better understanding of music and why it is important to society and human experiences. Students will develop an understanding of music history, music theory, note reading, music technology, and the expression and organization of musical ideas.

COURSE: LOCAL MUSIC ELECTIVE I
NUMBER: 9296
GRADE LEVEL: 9-12
PREREQUISITES: NONE
CREDIT: 1

The study of percussion instruments and world cultures related to them. The class will study the fundamentals of percussion playing as well as participate in two concerts a year. Outside rehearsal time will be needed to play some ensemble pieces and to use larger percussion instruments.

PHYSICAL EDUCATION DEPARTMENT

COURSE: HEALTH AND PHYSICAL EDUCATION/GRADE 8
NUMBER: 7200
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

Health and Physical Education 8 is a required course designed to provide students instruction in a variety of areas and skill levels. The range of activities includes physical fitness and conditioning, rhythmic activities, individual and dual sports, as well as team sports. Health related items covered in the classroom include personal growth, hygiene, drugs, safety, disease prevention, consumer skills, environmental health, first aid, and survival skills.

COURSE: HEALTH/PHYSICAL EDUCATION 9
NUMBER: 7300
GRADE LEVEL: 9
PREREQUISITES: HEALTH AND PHYSICAL EDUCATION 8
CREDIT: 1

Health and Physical Education 9 is a required course designed to develop organic strength, physical fitness, and wholesome use of leisure time. The physical fitness activities taught can be used for lifetime fitness. Mental health and safety awareness are also part of Health and Physical Education 9, as well as other health topics, such as disease prevention and control, consumer health, environmental

health, first aid, personal and family survival, tobacco, alcohol, drugs, adolescence, and family living. The classroom part of driver education is included in this course. In-car instruction is offered before school, after school, and during the summer.

COURSE: HEALTH/P.E./DRIVER EDUCATION 10
NUMBER: 7405
GRADE LEVEL: 10
PREREQUISITES: HEALTH/P.E. 9
CREDIT: 1

Health and Physical Education 10 consists of exercise, flexibility, and skills in individual and team sports, with an emphasis on lifetime activities. Health units taught include mental health, parenthood, family living, tobacco, alcohol, and drugs.

COURSE: ADVANCED PHYSICAL EDUCATION
NUMBER: 7640
GRADE LEVEL: 11, 12
PREREQUISITES: HEALTH/ P.E./10
CREDIT: 1

Advanced Physical Education is an elective course that emphasizes individual fitness, recreational sports, and organizational and directive duties of individual and dual sports. Fitness and conditioning continues the process of helping students develop overall fitness. The emphasis is on improvement in the areas of strength, agility, endurance, explosive power, flexibility, and speed.

SCIENCE DEPARTMENT

COURSE: PHYSICAL SCIENCE/GRADE 8
NUMBER: 4125
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

Physical Science is a course that allows students to continue building skills of systematic investigation with a clear focus on variables and repeated trials. Validating conclusions using evidence and data becomes increasingly important at this level. Students will plan and conduct research involving both classroom experimentation and literature reviews from written and electronic resources. Research methods and skills highlight practical problems and questions. A more in-depth understanding of the nature and structure of matter and the characteristics of energy will be stressed. Emphasis will be placed on the technological application of physical science principles. Major areas covered are the periodic table; physical and chemical changes; nuclear reactions; temperature and heat; sound; light; electricity and magnetism; and work, force and motion.

COURSE: EARTH SCIENCE I
NUMBER: 4210
GRADE LEVEL: 9
PREREQUISITES: EIGHTH GRADE PHYSICAL SCIENCE
CREDIT: 1

Earth Science connects the study of the Earth's composition, structure, processes, and history; its atmosphere, fresh water, and ocean, and its place in the universe. This course emphasizes contributions to the development of scientific thought concerning earth and space. Major topics of study include astronomy, geology, meteorology, and oceanography.

COURSE: EARTH SCIENCE II/ADV SURVEY OF EARTH SCIENCE TOPICS
NUMBER: 4220
GRADE LEVEL: 10, 11, 12
PREREQUISITES: EARTH SCIENCE I
CREDIT: 1

This course offered at Bland High School is an extension of material first introduced in Earth Science during the 9th grade year. It is a more in-depth look at the science of both Oceanography and Meteorology. Half of this course is devoted to the study of the different aspects of the ocean, its composition and the life with in. The second half moves from water at the surface to water in the atmosphere. Here you will look at the reason for our atmosphere and the development of different types of clouds, weather patterns, severe weather and climate.

COURSE: BIOLOGY I
NUMBER: 4310
GRADE LEVEL: 10, 11, 12
PREREQUISITES: EARTH SCIENCE I
CREDIT: 1

Biology is the study of life and the organization of living systems. Biology begins with the study of the simplest forms of living things and continues to more complex living systems. Major concepts studied are the chemistry of life; cell parts and functions; mitosis; meiosis; genetics; classification systems; and a survey of the plant, animal, fungi, monera, and protest kingdoms. Students will be provided alternatives to animal dissection techniques pursuant to the Code of Virginia §22.1-200.01.

COURSE: BIOLOGY II
NUMBER: 4320
GRADE LEVEL: 11, 12
PREREQUISITES: A GRADE OF C OR BETTER IN BIOLOGY I
CREDIT: 1

Biology II is offered to highly motivated students. The course explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. There is also an introduction to the diversity of living organisms, their structures, functions, and evolution.

COURSE: BIOLOGY II /ANATOMY/PHYSIOLOGY
NUMBER: 4330
GRADE LEVEL: 11, 12
PREREQUISITES: BIOLOGY I
CREDIT: 1

Anatomy Physiology is a curriculum intended for the college bound student. The goal of this course is to improve the student's high level thinking that is essential to the development of science literacy. Students can expect to cover topics dealing with the human body such as orientation, basic chemistry, cells and tissues, skin and body membranes, skeletal system, muscular system, circulatory system with blood, body defenses, respiratory system, digestive system including body metabolism, urinary system and a unit on human body reproduction.

COURSE: BIOLOGY II/ECOLOGY
NUMBER: 4340
GRADE LEVEL: 11, 12
PREREQUISITES: BIOLOGY I
CREDIT: 1

Ecology is a lab science course for students who are interested in studying living things and their environment beyond the scope of Biology I. This course focuses on increasing the student's knowledge of biological science, and the complex issues facing the environment. In learning about the various aspects of the environment, students will understand the interdependence of life on Earth.

COURSE: CHEMISTRY
NUMBER: 4410
GRADE LEVEL: 11, 12
PREREQUISITES: ALGEBRA II OR CURRENTLY ENROLLED IN ALGEBRA II
CREDIT: 1

Chemistry is the branch of science that studies the interaction of matter and energy. The characteristics of elements and compounds and how they interact are studied. Problem solving, the practical use of calculators, use of technology (including computers), and chemical reactions are practiced in laboratory activities. Emphasis in laboratory activities is placed on safety, use of the laboratory skills, application of learned material to practical usage, and development of proper use of the scientific method. Techniques for writing technical papers are also emphasized.

COURSE: EARTH SCIENCE II/ASTRONOMY
NUMBER: 4260
GRADE LEVEL: 10, 11, 12
PREREQUISITES: EARTH SCIENCE I
CREDIT: 1

Astronomy is an extension of material first introduced in Earth Science during the 9th grade year. It is a more in-depth look at the science of Astronomy. This course concentrates on how Astronomy has evolved over the years, an in-depth study of the planetary system, exploration of the formation and life cycles of stars, and the differences between the many galaxies we have in our single universe.

COURSE: EARTH SCIENCE II/GEOLOGY
NUMBER: 4240
GRADE LEVEL: 10, 11, 12
PREREQUISITES: EARTH SCIENCE I
CREDIT: 1

Geology course is an extension of material first introduced in Earth Science during the 9th grade year. It is a more in-depth look at the science of Geology. This course focuses on the essentials of Geology and the different facets of our planet Earth. Students will have an in-depth knowledge about earthquakes, volcanoes, plate tectonics, rock types, and much more about our planet Earth.

COURSE: PHYSICS I
NUMBER: 4510
GRADE LEVEL: 11, 12
PREREQUISITES: ALGEBRA II
CREDIT: 1

Physics is a course offered to students who have successfully completed earth science, biology, and chemistry, as well as algebra and geometry. The math background is an important prerequisite because the study of physics requires proficient application of mathematical calculations. The course includes Newtonian physics, heat, light, electricity, and magnetism, and is intended to prepare students for higher education. Physics requires frequent demonstrations and laboratory sessions to supplement and clarify the academic presentations.

FAMILY AND CONSUMER SCIENCE

COURSE: FAMILY AND CONSUMER SCIENCES EXPLORATORY III
NUMBER: 8244
GRADE LEVEL: 8
PREREQUISITES: NONE
CREDIT: 0 (REQUIRED COURSE, BUT DOES NOT COUNT TOWARD GRADUATION CREDITS)

Family and Consumer Sciences Exploratory III is one of the middle school Family and Consumer Sciences course that provides a foundation for managing individual, family, career, and community roles and responsibilities. In FACS III, students focus on their individual roles in the community as well as how the community influences individual development. Students develop change-management and conflict-resolution skills and examine how global concerns affect communities. In addition, students enhance their knowledge of nutrition and wellness practices and learn how to maximize consumer and family resources. The course helps students apply textile, fashion and apparel concepts to their daily lives and provides background on stages of early childhood development as related to childcare. Time is provided for exploring careers in the Family and Consumer Sciences career cluster and developing job-search skills. In addition, students increase their leadership abilities and explore how volunteerism aids communities. Mathematics, science, language, social sciences, and technology are integrated throughout the course.

COURSE: FAMILY RELATIONS
NUMBER: 8225
GRADE LEVEL: 8, 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Family Relations focuses on analyzing the significance of the family, nurturing human development in the family throughout the life span, analyzing factors that build and maintain healthy family relationships, and developing communication patterns that enhance family relationships. It also focuses on dealing effectively with family stressors and conflicts, managing work and family roles and responsibilities, and analyzing social forces that influence families across the life span. Teachers highlight basic skills of math, science, and communication when appropriate in the content.

COURSE: INTRODUCTION TO FAMILY AND HUMAN SERVICES
NUMBER: 8238
GRADE LEVEL: 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Introduction to Family and Human Services is a course that presents skills related to practical problem solving, research, critical thinking, and career decision making. Professional opportunities within the cluster of health, human, and public service will be identified and analyzed. Career investigation will include the areas of elder and intergenerational care services, as well as family and social services. Teachers will incorporate the skills of math, science, written and oral communication, and computer applications when appropriate in the content.

COURSE: INDEPENDENT LIVING
NUMBER: 8219
GRADE LEVEL: 8 OR 9, 10, 11 OR 12
PREREQUISITES: NONE
CREDIT: 1

Independent Living allows students to explore successful strategies for living independently by actively participating in practical problem solving. This course focuses on relationships, applying financial literacy, resource management, leadership skills, career planning and consumer choices in a global environment.

COURSE: PARENTING
NUMBER: 8232
GRADE LEVEL: 9 OR 10, 11 OR 12
PREREQUISITES: NONE
CREDIT: 1

Parenting focuses on assessing the impact of the parenting role in society; taking the responsibility for individual growth within the parenting role; preparing for a healthy emotional and physical beginning for a parent and child; meeting developmental needs of children and adolescents; building positive parent-child relationships; using positive guidance and discipline to promote self-discipline, self-respect, and socially responsible behavior; obtaining parenting information, support and assistance; and planning ways that families and society can share in nurturing children and adolescents. Critical

thinking, practical problem solving, and entrepreneurship opportunities within the area of parenting responsibilities and education are emphasized. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content.

COURSE: NUTRITION AND WELLNESS
NUMBER: 8229
GRADE LEVEL: 9 OR 10, 11 OR 12
PREREQUISITES: NONE
CREDIT: 1

Nutrition and Wellness focuses on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and identifying strategies to promote optimal nutrition and wellness of society. Critical thinking, practical problem solving, and entrepreneurship opportunities within the area of nutrition and wellness are emphasized

COURSE: INTRODUCTION TO HOSPITALITY, TOURISM
AND RECREATION
NUMBER: 8259
GRADE LEVEL: 9 OR 10, 11 OR 12
PREREQUISITES: NONE
CREDIT: 1

Students enrolled in Introduction to Hospitality, Tourism, and Recreation focus on developing professional skills and using emerging technologies to prepare for employment in this global industry rich in diverse career opportunities. The program includes instruction in the industries of lodging, food and beverage, travel and tourism, and recreation and fitness.

COURSE: INDIVIDUAL DEVELOPMENT
NUMBER: 8210
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITES: NONE
CREDIT: 1

Students enrolled in Individual Development focus on encouraging personal potential of self and others throughout the life span; enhancing positive views of self and others; managing stressful situations, formulating a plan to achieve career goals; forming healthy, caring relationships with family members and peers; managing conflict; choosing responsible ways to express oneself; and evaluating the importance of responsible parenting to individuals, families, and society. Critical thinking, practical problem solving, and entrepreneurship opportunities within the area of individual mental, emotional, and physical health are emphasized. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content.

CAREER AND TECHNICAL EDUCATION

Students may enroll in additional Career and Technical courses, which are offered at the Tazewell County Career and Technical Center and at the Wythe County Career Center.

Tazewell Career and Technical Center

AUTO BODY REPAIR I (8679), II (8680), III (8681)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to equip students with techniques in all phases of automobile damage repair. This includes estimation, repair, and refinishing vehicles.

AUTO SERVICING

Grade level: 10, 11, or 12

Credit: 3

Prerequisites: none

A course designed to introduce students to fundamental automotive servicing, proper tool usage, automotive servicing, and preventative maintenance procedures.

AUTO SERVICE TECHNOLOGY (ASE CERTIFICATION)

I (8506), II (8507), III (8508)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence

A course designed to acquaint students with the language, theory and processes of general automobile mechanics. Included are engine theory, operation, maintenance, automobile subsystems, and applied trouble-shooting.

BEAUTY SALON ASSISTANT (8546)

Grade level: 12

Credit: 3

Prerequisites: None

A one-year course for seniors enabling students to become an assistant in a hair salon. A certificate of completion will be awarded upon completion of the course. Students will demonstrate shampooing and conditioning, sanitation and contamination, retailing, product knowledge and general reception tasks.

BRICKLAYER (8549)

Grade level: 10, 11, 12

Credit: 3

Prerequisites: None

Students enrolled in this program learn the fundamental skills associated with laying block and brick, and the fundamentals of mixing mortar and other bonding elements.

BUILDING TRADES/HOME IMPROVEMENT

I (8515), II (8516), III (8517)

Grade level: 10, 11, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to introduce students to the construction industry. Students will be introduced to the fundamental skills in carpentry, electrical wiring, plumbing, masonry, sheet rock installation, and hardwood flooring. Proper usage of power hand tools is emphasized.

CAD (Computer Aided Drafting and Design)

Grade level: 10, 11, 12

Credit: 3

Prerequisites: None

A course designed to provide students with skills in board drawing and computer aid drawing. The latest CAD software is utilized. Mechanical, civil and architectural techniques are part of the curriculum,

CARPENTRY I (8601), II (8602), III (8603)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to allow students to acquire the basic understanding of the construction industry. Proper use of power and hand tools, design and construction of frame structures, and applications of building codes are thoroughly covered.

COMPUTER SYSTEMS TECHNOLOGY (A+ Certification)

I (8622), II (8623), III (8624)

Grade level: 10, 11, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to prepare students for a career in computer maintenance. Computer troubleshooting and upgrades are the main focus while game consol repair is also covered.

COSMETOLOGY (State Licensing Available)

I (8527), II (8528), III (8529)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to develop the student's ability to care for hair, nails, scalp, and skin. The course strives to install professional ethics, grooming habits, and interaction with the public. Successful completion prepares students for the State Board Examination.

DIESEL EQUIPMENT TECHNOLOGY

I (8613), II (8614), III (8615)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to impart knowledge and skills necessary in the service, maintenance, and repair of heavy industrial equipment.

MASONRY I (8512), II (8513), III (8514)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to instruct students and provide practice in the manipulation processes and technical information needed to become a skilled mason. The course focuses on the art of brick, block, stone, and tile construction.

NAIL TECHNOLOGY (8692)

(State Licensing available)

Grade level: 11 or 12

Credit: 3

Prerequisites: None

A one-year course for seniors preparing students for the state board of nail technology-licensing examination. This course teaches all aspects of nail care.

Practical Nursing I (8357), II (8358)

Grade level: 12 (36 weeks, triple period), Adult (36 weeks fulltime)

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to give students a fundamental knowledge of nursing care through the study of all phases of practical nursing. Upon completion of the total program, students must qualify to take the State Written Examination to become a Licensed Practical Nurse.

SMALL ENGINE/MOTORCYCLE TECNOLOGY/MARINE TECHNOLOGY

I (8725), II (8726), III (8727)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to provide theory and practical application of two and four cycle engines, air-cooled gasoline engine maintenance, operation, and repair.

WELDING I (8672), II (8673), III (8674)

(Certification upon completion)

Grade level: 10 or 11, 11 or 12, 12

Credit: 3

Prerequisites: Each course must be taken in sequence.

A course designed to acquaint the student with oxyacetylene cutting and welding, arc welding, tungsten and metallic inert gas welding, along with safety and operation of auxiliary tools and equipment. Also included is blueprint reading, design, and fabrication.

Wythe County Technology Center

Wythe County Technology Center offers a variety of courses to meet the needs of the students in Wythe and Bland Counties. All programs are two-year programs designed mainly for juniors and seniors. The courses are three-period block classes and the students can earn 2.5 credits per course. Upon satisfactory completion of the program, students receive a certificate. Because the majority of the programs have embedded apprenticeships or mandated clock hour requirements, regular attendance is critical for successful program completion. Given that these programs are designed for older students, students' attendance patterns are well established prior to program entry. Hence, students with chronic attendance issues (truancy, excessive early dismissals and/or tardiness) are strongly discouraged from program participation.

In addition to the course topics listed below, the Virginia Department of Education Division of Career and Technical Education has added the *Virginia's Workplace Readiness Skills CBE Task List* to all technology courses offered. This list includes:

Workplace readiness skills are important because in addition to looking for specialized job skills, employers are also looking for "Soft" Skills. Soft Skills relate to:

1. Personal Qualities and People Skills
2. Professional Knowledge and Skills
3. Technology Knowledge and Skills

Automotive Technology I (8506)

Grade level: 10*, 11

Credit: 2.5

* With the approval of the WCTC Principal and the student's High School Principal

Prerequisites: None

This first-year course includes a "hands-on" program of instruction for learning the theory of internal combustion engines, tool use and identification, identification of engine parts, functions of lubrication systems, and engine tune-up. Units of instruction also covered are fuel, carburetion, measurements and identification of parts, engine assembly and disassembly techniques, daily service operations, and engine maintenance. Safety precautions and the development of safe work habits are emphasized throughout the program.

Automotive Technology II (8507)

Grade level: 11, 12

Credit: 2.5

Prerequisites: Automotive Technology I

Auto Service Technology II is an advanced program continuing the development of skills begun in Auto Service Technology I. More intensive "hands-on" work is included to develop good work habits and to develop skills and knowledge required to secure a job in the automotive repair field.

Building Trades I (8515)

Grade level: 11

Credit: 2.5

Prerequisites: None

This course gives students an opportunity to develop entry-level skills in carpentry, blueprint reading, material estimating, residential wiring, and plumbing.

Student must be 16 years of age by September 1 of the current school year to meet Department of Labor guidelines.

Building Trades II (8516)

Grade level: 11, 12

Credit: 2.5

Prerequisites: Building Trades I

Development of entry-level skills will continue with the construction of a residential dwelling.

Early Childhood Education I (8285)

Grade level: 10*, 11

Credit: 2.5

* With the approval of the WCTC Principal and the student's High School Principal

Prerequisites: None

Students prepare to become primary child care providers in home-, family-, or institution-based centers by focusing their studies on the planning, organizing, and conduction of meaningful play and learning activities; child monitoring and supervision; record-keeping; and referral procedures. Students participate in volunteer programs with local preschools and child care centers including the Special Needs preschool at the Wythe County Technology Center.

Early Childhood Education II (8286)

Grade level: 11, 12

Credit: 2.5

Prerequisite: Early Childhood Education I

As an extension of Early Childhood Education I, students prepare for positions in child care centers, preschools and early primary education. Students participate in internships under the supervision of the instructor at local child care centers and elementary schools.

Early Childhood Education is offered at the Wythe County Technology Center as an optional, dual credit class in conjunction with the Virginia Community College System. (Maximum 6 college credits possible). Industry certification can be obtained by successful completion of the NOCTI exam.

Cosmetology I (8527)

Grade level: 11

Credit: 2.5

Prerequisites: None

This program is designed to teach entry-level skills in the field of cosmetology. Areas covered include the theory and practice of hair care, skin care, and nail care. Other areas covered include anatomy, salon management, chemistry, and electricity as they pertain to the course.

Cosmetology II (8528)

Grade level: 11, 12

Credit: 2.5

Prerequisite: Cosmetology I

This course is one in which students continue their study of the theory and practice of the manipulative skills required for licensure. Those competencies taught in Cosmetology I are reinforced, with emphasis placed on advanced hair design techniques, and state board preparation. Upon successful completion of Cosmetology I and II (**1500 clock hours required**), the student is eligible to take the State Board of Cosmetology Exam.

Culinary Arts I (8275)

Grade level: 10, 11, 12

Credit: 2.5

Prerequisite: None

Students prepare for managerial, production, and service skills used in the government, commercial, or independently owned institutional food establishments and related food industry occupations. Their study includes planning, selecting, storing, purchasing, preparing, and serving food and food products; basic nutrition, sanitation, and food safety; the use and care of commercial equipment; serving techniques; and the operation of institutional food establishments. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Teachers highlight the basic skills of math, science, and communication when appropriate.

Culinary Arts II (8276)

Grade level: 11, 12

Credit: 2.5

Prerequisite: Culinary Arts I

Students extend and expand skills learned in Culinary Arts I, preparing for occupations such as chef/cook, baker/pastry helper, pastry decorator, hospitality workers, dietetic aide/assistant, food demonstrator, mixologist, and entrepreneur. Cooperative (on-the-job) education or an internship under the supervision of the instructor is an option. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Teachers highlight the basic skills of math, science, and communication when appropriate in content. Culinary Arts is offered at Wythe County Technology Center as an optional, dual credit class in conjunction with the Virginia Community College System. (Maximum 12 college credits possible). Industry Certification can be obtained by successful completion of the Pro Start exams and 400 hours work experience in the field.

Computer Aided Design (CAD) I (8530)

Grade level: 10*, 11

Credit: 2.5

* With the approval of the WCTC Principal and the student's High School Principal

Prerequisites: None

Students are introduced to the theory and the manipulative skills necessary to produce and complete drawing based on the ideas and sketches of engineers, architects, and designers. Students practice the fundamentals of design and prepare mechanical, structural, and architectural plans, using basic CAD operations.

Computer Aided Design (CAD) II (8531)

Grade level: 11, 12

Credit: 2.5

Prerequisites: Computer Aided Design I

Students master the theory and the manipulative skills necessary to produce complete and accurate drawings based on the ideas and sketches of engineers, architects, and designers. They design and prepare mechanical, structural, and architectural plans.

CAD II is offered at the Wythe County Technology Center as an optional, dual credit class in conjunction with the Wytheville Community College.

Practical Nursing I (8357)

Grade level: 11 or 12

Credit: 2.5

Prerequisites: Enrolled in or successfully completed Biology

In the first semester, students learn nursing care of patients of all ages, in various stages of sickness or wellness, and with a variety of disease conditions. They focus on human anatomy, body function, communication, community health, fundamental nursing skills, nutrition, drug therapy, and elementary medical-surgical nursing.

Practical Nursing II (8358)

Grade level: 12

Credit: 2.5

Prerequisite: Practical Nursing I

Students learn nursing care of patients of all ages, in various stages of sickness or wellness, with a variety of disease conditions. They focus on human anatomy, body function, communication, community health, fundamental nursing skills, nutrition, drug therapy and elementary medical-surgical nursing. Students have the option to enroll in dual credit nursing courses through Wytheville Community College.

Manufacturing Systems (8425)

Grade level: 10*, 11, 12

Credit: 2.5

*With approval of the WCTC Principal and the student's High School Principal

Prerequisites: None

This course provides an orientation to careers in various fields of manufacturing. Emphasis will be placed on the major systems in automated manufacturing, including design, electrical, mechanical, manufacturing processes, material handling, and quality control. Students participating in teams produce manufacturing projects that demonstrate critical elements of manufacturing.

Advanced Manufacturing Systems (8427)

Grade level: 11, 12

Credit: 2.5

Prerequisites: Manufacturing Systems

Students develop an in-depth understanding of automation and its applications in manufacturing. Activities center on flexible manufacturing processes and computer integrated manufacturing (CIM). Students work in teams to solve complex interdisciplinary problems that stem from the major systems in automated manufacturing.

Precision Machining Technology I (8539)

Grade level: 11, 12

Credit: 2.5

Prerequisites: Algebra I or equivalent

In this course students are introduced to precision measurement and machine tools. Safety, efficiency, and a positive work attitude are also emphasized. Machines and machine tools taught include saws, grinders, drill presses, engine lathes and milling machines. Students will be required to earn a 10 hour OSHA approved safety card through Career Safe.

Student must be 16 years of age by September 1 of the current school year to meet Department of Labor guidelines.

Precision Machining Technology II (8540)

Grade level: 12

Credit: 2.5

Prerequisites: Precision Machining Technology I

The advanced level of Precision Machining Technology II will help develop skills learned in Precision Machining Technology I. They learn how to plan, prepare and execute the manufacture of more complex parts and assemblies. In the second semester a company is formed and each student plays an important part in the manufacture of a group project. The students are also introduced to basic CNC machining. Students have the opportunity to receive Industry Certification through NOCTI.

MAC 101 Machine Shop Operations is offered at Wythe County Technology Center as an optional, dual credit class in conjunction with the Virginia Community College System.