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Revised February, 2008

BSSD

Blairsville-Saltsburg School District

Mission Statement

This mission of the Blairsville-Saltsburg School District is to prepare each student to become a responsible, productive and competitive member of an ever-changing global society.

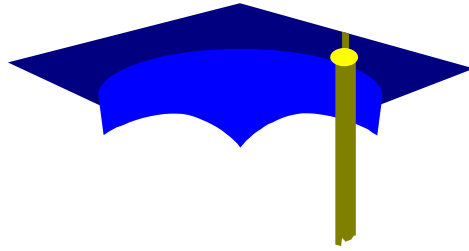
Belief Statements

We believe that the school district must provide leadership and opportunities for all students to become life-long learners.

We believe that the learning process requires our students to be challenged and actively engaged.

We believe that educational excellence necessitates cooperation between all people, organizations, and stakeholders associated with our school district.

We believe that the school climate must be positive and safe.



GRADUATION REQUIREMENTS

Students must have completed a minimum of 23.2 credits or 21.0 credits plus 1 unit of health and 4 units of physical education, in grades nine, ten, eleven, and twelve to graduate and receive a diploma from Blairsville High School or Saltsburg High School. The required credit breakdown is as follows:

Subject Area	Number of Credits
English	4
Social Studies	* 4
Math	3
Science	3
Physical Education	**1 course / year
Health	**1 course
Arts & Humanities Electives	2
General Electives	5

- * Technical Education students need only three (3) credits of Social Studies.
- ** Credit assigned each year by course structure.

PROMOTION REQUIREMENTS

Student promotion is based on number of total credits earned. Ninth grade students must earn a minimum of five (5.0) credits to be promoted to grade 10 or sophomore status. Sophomores must accumulate a minimum of ten (10.0) credits to move on to junior or eleventh grade status. To be a senior, a student must have earned and accumulated a minimum of sixteen (16.0) credits.

CURRICULUM

The curriculum at Blairsville and Saltsburg High Schools consists of three educational programs. These are the Advanced Academic Program, Academic Program, and the Technical Education Program. Each student is to follow one of these prescribed programs and must receive special permission from the Principal and the Guidance Counselor to deviate from a program. These programs have been carefully designed to provide students with the appropriate sequence of offerings required for high school graduation as well as preparation for employment or continuing in post-secondary education. Each program requires students to schedule a minimum of six classes (thirty class periods each week) in addition to physical education totaling to a minimum of 6.4 credits. Students are to select and schedule electives in conjunction with the required classes and the recommended sequence.

ELECTIVES

For graduation requirements, all students are required to complete seven (7) electives, two (2) that must be in the Arts and Humanities. The following is a list of all elective classes offered. Ninth grade students going to the Indiana County Technology Center in tenth grade must schedule two (2) arts and humanities electives in ninth grade to complete requirements.

Technical Writing (.5 fall)	SHS	AP English	
Public Speaking (.5 spring)	SHS	AP Calculus	
Video Productions		AP World History	
Psychology (.5 fall SHS) (1.0 BHS)		AP US History	
Current Events (.5 spring SHS) (1.0 BHS)		AP Chemistry	
Art 1 (10 – 12)		AP Physics	
Art 2		Band	
3-D Art 1	SHS	Chorus	
Advanced Art	BHS	Family & Consumer Science 3	SHS
Desktop Publishing & Web Design		Clothing & Textiles	BHS
Computer Tech Workshop		Early Childhood	
Information Processing		Consumer Foods & Nutrition	
Accounting 1		Spanish 1	
Accounting 2		Spanish 2	
Accounting 3		Spanish 3	
Word Processing Fundamentals		Spanish 4	
Advanced Computer Applications		French 1	
Marketing Essentials/Business & Personal Law		French 2	
ICTC 10		French 3	
ICTC 11		Technical Design 1 (prerequisite class)	
ICTC 12		Technical Design 2 (CADD)	SHS
Statistics		Applying Technology	SHS
Biology 2		Physical/Creating Technology	SHS

SUGGESTED COURSE PROGRAM SEQUENCES

ADVANCED ACADEMIC

9th Grade

English 9
US History 9
Gen. Science 9 & Biology
Geometry 9
Block 9:
 Computer 9
 PE 9
 Art 9
 FACS 9 /Tech Ed (BHS)
French I or Spanish I
1 or 2 additional electives

10th Grade

English 10
World Cultures or AP World History
Chemistry
Algebra II/10
Block 10 (PE, H-SHS)
French II or Spanish II
1 or 2 additional electives

11th Grade

English 11 or Honors English
US History 11 or AP US History
Physics or AP Chem or Both
Pre-Calculus
PE 11 or Fitness & Sport
2 or 3 additional electives

12th Grade

AP English 12
Sr. Soc. Studies
AP Chemistry and /or AP Physics
AP Calculus
PE 12 or Fitness & Sport
2 or 3 additional electives

ACADEMIC

9th Grade

English 9
US History 9
Gen. Science 9
Algebra I
Block 9:
 Computer 9
 PE 9
 Art 9
 FACS 9 /Tech Ed (BHS)
French I or Spanish I
1 or 2 additional electives

10th Grade

English 10
World Cultures
Biology
Geometry
Block 10 (PE, H-SHS)
French II or Spanish II
1 or 2 additional electives

11th Grade

English 11
US History 11
Chemistry
Algebra II
PE 11 or Fitness & Sport
2 or 3 additional electives

12th Grade

English 12
Sr. Social Studies
Physics or AP Chemistry or Bio 2
Statistics or Algebra III/Trig
PE 12 or Fitness & Sport
2 or 3 additional electives

TECHNICAL

9th Grade

English 9
US History 9
Gen. Science 9
Algebra I
Block 9:
 Computer 9
 PE 9
 Art 9
 FACS 9/Tech Ed (BHS)
any 2 electives must be in
Arts & Humanities

10th Grade

English 10
World Cultures
(no science)
Geometry
Block 10 (PE, H-SHS)
ICTC 10 (3 credits)

11th Grade

English 11
(no history)
Biology
Algebra II
PE 11 or Fitness & Sport
ICTC 11 (3 credits)

12th Grade

English 12
Sr. Soc. Studies
Motion & Matter(SHS) P Sci (BHS)
PE 12 or Fitness & Sport
ICTC 12 (3 credits)

COURSE OFFERINGS

English

101	English 9
102	English 10
103	English 11
104	English 12
105	Technical Writing (SHS)
106	Public Speaking (SHS)
111	Honors English 11
112	AP English 12

Foreign Language

115	Spanish I
116	Spanish II
117	Spanish III
118	Spanish IV
119	French I
120	French II
121	French III

Mathematics

202	Algebra I
204	Geometry 9
205	Geometry
206	Algebra II (10)
207	Algebra II
210	Algebra III/Trigonometry
211	Statistics
212	Pre-Calculus
213	AP Calculus

Social Studies

301	US History 9
302	World Cultures
303	US History 11
304	Senior Social Studies/Economics
309	AP World History
310	AP US History
311	Psychology
312	Current Events

Science

401	General Science 9
402	Biology
404	Chemistry
405	Physics
406	Biology II
407	AP Chemistry
408	AP Physics
410	Physical Science (BHS)
411	Motion & Matter (SHS)

Health & Physical Education

501	Physical Education 9
502	Physical Education 10
503	Physical Education 11
504	Physical Education 12
506	Health 10
510	Fitness & Sport

Business & Technology Education

601	Computer Lit. III
602	Desktop Publishing & Web Page Design
603	Comp Tech Workshop (BHS)
615	Video Productions
710	Accounting I
711	Accounting II
712	Accounting III
713	Word Processing Fundamentals
714	Advanced Computer Applications
715	Marketing Essentials/Business Law

Art

801	Art 9
812	Art I
813	Art II
814	3-D Art I (SHS)
815	Advanced Art (BHS)

Music

810	Band
811	Chorus

Industrial Technology

901	Technology Education 9 (BHS)
909	Technical Design 1
910	Technical Design 2 (SHS)
911	Applying Technology
912	Creating Technology (SHS)
913	Physical Technology (SHS)

Family and Consumer Sciences

902	Family and Consumer Science II
914	Family and Consumer Science III (SHS)
915	Clothing & Textiles (BHS)
916	Early Childhood
917	Consumer Foods & Nutrition

Vocational Technical Education

1010	ICTC 10
1011	ICTC 11
1012	ICTC 12

Gifted Education

1110	Scientific Research (IEP)
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LANGUAGE ARTS

ENGLISH 9

Course # 101

Credit: 1

Prerequisite: none

The freshmen English course focuses on the areas of *writing, speaking, literature, vocabulary, grammar, and portfolios*. Students will write narrative, persuasive, descriptive, and expository paragraphs and compositions. Writing assignments may be in the form of a biographical paper, a research paper, and/or written responses to literature. Students will be required to speak before an audience. Speaking assignments may include summaries of their written work, responses to literary works, and/or a formal speech. Students will study a variety of literary genres; these may include novel, short stories, non-fiction works, poetry, contemporary and/or Shakespearean drama. Students will study literary terminology and lists of vocabulary words taken from literary and/or independent lists. In grammar, students will study such areas as sentence structure, agreement, usage, and writing mechanics. Each student will create an English portfolio, which will demonstrate the student's performance according to district academic standards.

ENGLISH 10

Course # 102

Credit: 1

Prerequisites: none

This is a comprehensive course that includes and integrates the study of literature and composition. The study of literature will enhance students' reading, comprehension, and analytical thinking skills. A survey of literature will include studies in short stories, poetry, novels, drama, non-fiction, and classical literature. In addition to themes of these works, literary techniques will be examined. Throughout the study of literature, students will have opportunities to write formal, analytical essays as well as personal responses to the literary selections.

The study of composition will emphasize techniques used in writing traditional formal essays. Students will develop writing skills while focussing on the following purposes: to narrate, to describe, to persuade, and to inform. There will also be opportunities for creative writing. Students will develop speaking skills through formal and informal class presentations, which are integrated throughout the literature and composition units.

Assessment will be based on writing assignments, quizzes/tests, oral presentations, and graded homework assignments. All assignments must be completed in order to earn a passing grade. Students will continue to develop their English portfolio, which will be used to assess progress and achievement.

ENGLISH 11**Course # 103**

Credit: 1

Prerequisites: None

This course is designed to focus on three major areas of study-enhancing students' critical thinking, comprehension, speaking, and writing skills. The first major area of study is a comprehensive examination of American Literature encompassing both classical and modern authors of poetry, short stories, novels and drama and the literary devices found in these works. The second major area of study involves the development and refinement of skills in the areas of creative, persuasive, expository and narrative writing. The final major area of study in this course involves developing oral communication skills through projects, presentations, and speeches designed to give students more confidence in their abilities to effectively communicate. There will be a culminating research project in the third marking period, which will incorporate all of the major areas of study.

Assessment will be based on a variety of factors. Writing assignments, journals, examinations, homework, group and individual projects, and oral presentations will be used to help assess student performance. Students will also be required to keep a portfolio. Opportunities for extra credit will be available at the discretion of the instructor.

ENGLISH 12**Course # 104**

Credit: 1

Prerequisites: None

This senior course develops skills in reading, writing, speaking, and listening. Students will survey classical British literature in a variety of genres such as drama, short stories, poetry, essays, and novels. Writing will include analytical essays, personal responses, narratives, creative pieces, and research writing.

Assessment will be based on projects, exams, quizzes, written work, and class participation. Also, portfolios will be part of the overall evaluation of students' work.



HONORS ENGLISH 11**Course # 111**

Credit: 1

Prerequisites: 90% average in English 9 and English 10 with
4Sight Test Scores Considered as well
Recommended Prerequisite for AP English

Honors English 11 is a rigorous course meant to prepare students for college level studies of Language and Literature. The course is an in depth study of the movements and eras of American Literature. The course will focus on intense analysis of the literature and literary criticism of the major authors of America from Colonial to Modern times. The course will also compare American authors to authors from other countries, eras and movement.

**ADVANCED PLACEMENT ENGLISH LITERATURE
& COMPOSITION****Course # 112**

Credit: 1

Prerequisites: 90% or better in grade 11 English, and a signed recommendation by grade 11 English instructor.

AP Language Arts is a college-level course offered to advanced academic high school seniors. Selected students must be competent writers, active problem solvers, and analytical thinkers. To improve these skills throughout the year students will survey and respond to world literature in a variety of genres. They will learn to explore literature by looking at characterization, setting, plot, language, and theme. They will be required to complete independent reading assignments in addition to in-class reading assignments.

Students will improve writing skills by completing college-level writing assignments. In addition to creative writing, these writing assignments will include response, comparison, research, and narrative styles of writing.

Students will also use cooperative learning to improve college-level skills. As a member of small and large groups throughout the year students will learn to complete tasks, solve problems, and incorporate learning strategies.

Evaluations will include weekly assignments, exams, portfolio items, projects, etc. The culminating evaluation for those who are eligible will be the state Advanced Placement Exam which is given in May. Those students who feel confident will take this exam in hopes of scoring high enough to earn college credits. All students who have demonstrated advanced skills throughout the year are urged by their instructor to take this exam.

TECHNICAL WRITING (SHS only)**Course # 105**

Credit: .5 semester

Prerequisites: None

Technical Writing is designed to introduce students to transactional writing. This elective course provides students with skills and competencies necessary for writing in the workplace. It trains writers to recognize the needs of the audience. This affords them the opportunity to produce documents, which persuade the audience to do something with the information contained within the document. Students will also be exposed to creating documents, editing and revising with the aid of a word processor. This course is product-oriented as it simulates the workplace environment. These products, or projects, are the major factors in determining grades. These projects include proposals, resumes, business letters, unsolicited recommendations, and memos.

PUBLIC SPEAKING (SHS only)**Course # 106**

Credit: .5 semester

Prerequisites: None

Public Speaking is a comprehensive course in which the student will be taught the components of good communication, the mechanics of speech, etiquette of speaking, and the many varieties of speeches. The goal of this course is to stress clear communication of an idea through voice and speech, body language, delivery technique, and written speech organization.

WORLD LANGUAGES

SPANISH I

Course # 115

FRENCH I

Course # 119

Credit: 1

Prerequisites: None

Spanish I/French I will enable the student to develop the five basic world language skills of speaking, listening, reading, writing and cultural awareness of the target language. The student will be able to read simple texts, write and speak about basic personal information, listen and comprehend classroom instruction and simple questioning, and become aware of cultural differences. Among the methods of assessment will be oral and written exams, projects, and class participation.

SPANISH II

Course # 116

FRENCH II

Course # 120

Credit: 1

Prerequisites: Spanish I/French I

Spanish II/French II will enable the student to expand on the five basic world language skills. The student will be able to read intermediate texts, write using multiple tenses and topics, listen and comprehend classroom instructions and native speakers, speak about expanded personal information and become more aware of cultural differences. Among the methods of assessment will be oral and written exams, projects, and class participation.

SPANISH III

Course # 117

FRENCH III

Course # 121

Credit: 1

Prerequisites: Spanish II/French II (teacher recommendation)

Spanish III/French III will enable the student to further expand proficiency in the five basic world language skills. The student will also be introduced to cultural and historical texts. Among the methods of assessment will be oral and written exams, projects, and class participation. There will also be opportunities to participate in academic competitions and field trips. Students will also be eligible for an organized trip to the target countries.

SPANISH IV

Course # 118

Credit: 1

Prerequisites: Spanish III/French III (teacher recommendation)

Spanish IV/French IV will enable the student to further expand proficiency in the five basic world language skills. The student will also be introduced to more advanced cultural and historical texts. Among the methods of assessment will be oral and written exams, research projects, and class participation. There will also be opportunities to participate in academic competitions and field trips. Students will also be eligible for an organized trip to the target countries.



MATHEMATICS

ALGEBRA I

Course # 202

Credit: 1

Prerequisite: None

This course is designed to provide an algebraic foundation for the college-bound student. Emphasis is placed on problem solving and logical thinking while basic concepts such as number development, equations, functions and graphing are stressed as well. Exploration and presentation of topics including symbol interpretation, statement problems, polynomial expressions and equations are included.

GEOMETRY (9)

Course # 204

Credit: 1

Prerequisite: Completion of Algebra I

This course is designed as the second course of study in high school mathematics for accelerated academic students who have completed Algebra I. The course offers a rigorous approach to mathematical reasoning through Euclidean and non-Euclidean geometries. Deductive reasoning, theorem proofs, and applications in parallelism, congruence, similarity, inequalities in geometry, transformations, and coordinate geometry are emphasized.

GEOMETRY (10-12)

Course # 205

Credit: 1

Prerequisite: Completion of Algebra I

This course in geometry features an informal approach to deductive reasoning and topics of parallelism, congruency, similarity, area and volumes, and non-Euclidean geometry's. Use of hand-held calculators, hands-on strategies, and real-world applications are some of the tools used in this approach. The emphasis in this course is in developing a strong, broad-based foundation in geometry for continuing study in mathematics.

ALGEBRA II (10)**Course # 206**

Credit: 1

Prerequisite: Completion or parallel study of Geometry (9)

This course is designed as the third course of study for the accelerated student. It reviews and builds on the concepts in Algebra I and Geometry, while integrating these subjects toward higher-level understandings and techniques of problem solving. Developed skills are emphasized in equation solving, equation systems and irrational numbers. Emphasis is also placed on a higher development of accuracy and reasonable speed. The usage of technology is demonstrated and built upon throughout the course and students are encouraged to own a TI-86 graphics calculator.

ALGEBRA II (11-12)**Course # 207**

Credit: 1

Prerequisite: Completion or concurrent study of Geometry

This is the third course of study for the college-bound student. It reviews and builds on the concepts of Algebra I, covering such topics as matrices and systems of equations, inequalities, quadratic functions, polynomial functions, and rational expressions. Graphic calculators are used extensively in the course to investigate, to conjecture, and to solve problems. Creative approaches to problem solving, communicating mathematical ideas, and real-world problem solving will be emphasized. It is highly recommended for the student to own a graphics calculator.

ALGEBRA III / TRIGONOMETRY**Course # 210**

Credit: 1

Prerequisite: Completion of Algebra II

This course is designed for students completing Algebra II. One semester consists of the fundamental ideas of trigonometry. The other semester will contain additional algebra topics including exponential and logarithmic functions, systems of equations, matrices, sequences and series. Graphing calculators are used extensively and are required.

STATISTICS**Course # 211**

Credit: 1

Prerequisite: Completion of Algebra II with a final grade of 80% or higher

Statistics is a senior math elective but may be taken by juniors who are currently taking Pre-Calculus. The purpose of this course is to give the student a working knowledge of the ideas and tools of practical statistics. The course is divided into the following four parts: data analysis, data production, probability and statistical inference. The TI-83 graphing calculator is used extensively and is required.

PRE-CALCULUS

Course # 212

Credit: 1

Prerequisite: Completion of Algebra II (10) with a final grade of 80% or higher

This course, the fourth for the accelerated student, is designed to provide a sound foundation for calculus. It includes the study of functions (polynomial, rational, exponential, and logarithmic), trigonometry, and analytic geometry. Special emphasis is given to algebraic skills that are needed in calculus. Graphing technology is integrated throughout the class as a tool for visualization, investigation, and verification. Students use a graphing calculator on a daily basis. Technology, real-life applications, problem solving, and communicating about mathematics are emphasized.

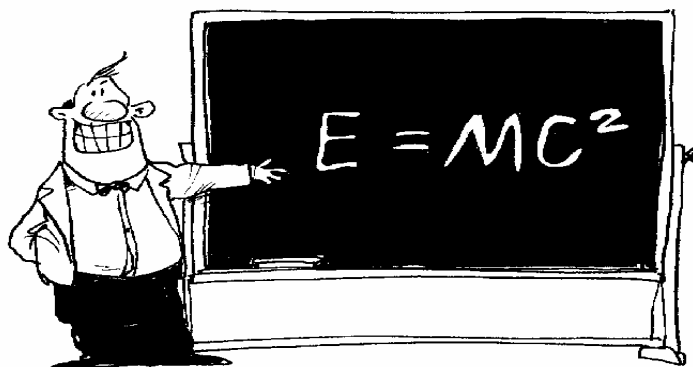
CALCULUS

Course # 213

Credit: 1.4

Prerequisite: Completion of Pre-Calculus

This course is designed for the student who is college-bound toward a field of science or mathematics. Among the topics studied will be a review of analytic preparation, functions, limits, derivation integration, transcendental functions and their relationship to problem solving. Dependent upon the background of the students, this course will follow the Advanced Placement AB format. This course will give students the necessary background for sophisticated mathematical courses at the university level and can lead to possible AP examination testing. This is a college-level course with the basic objective to assist the ambitious student in obtaining an advanced start in the studies of college mathematics. The usage of technology is emphasized throughout the course.



SOCIAL STUDIES

UNITED STATES HISTORY 9

Course # 301

Credit: 1
Prerequisites: None

1781 – 1900

This is a one-year course consisting of an examination of United States political, cultural, economic and diplomatic history. With a concentration on the Constitution, the course will cover the formation of the federal union, nationalism, sectionalism, the growth of democracy, the Civil War, Reconstruction, the growth of big business and imperialism.

WORLD CULTURES 10

Course # 302

Credit: 1
Prerequisite: US History 9

This class is the required History Course for all juniors. It is designed as a survey of Global History, from the Beginning of civilizations up to the modern era. The intent of the course is to make the students more familiar with the many civilizations that have existed before our own. Hopefully, they will see the influences those cultures have had on our present day society and will have a greater appreciation for the many tremendous accomplishments of early peoples. Additionally, we hope to increase personnel knowledge of major geographical concepts. The broad nature of the course requires a very fast pace, and therefore demands hard work good attendance, good notes, regularly study, and reading of the textbook.

UNITED STATES HISTORY 11

Course # 303

Credit: 1
Prerequisite: United States History 9

1900 - present

The course is divided into four segments conforming to the nine weeks. In the first, the students will study the Progressive presidents up to World War I. The second will cover the Twenties, the Great Depression and World War II. In the third, the students will study the Post-War years to the Vietnam War. The final segment will cover America since Watergate. Weekly homework assignments come from the textbook. Chapter tests include multiple choice questions in addition to essays. Every nine weeks, the students will have to complete a special project on assigned subjects pertaining to that nine weeks. It will be assessed on simulation rubric. The textbook is *The American Nation* (1995) by Paul Boyer and Sterling Stuckey.

SENIOR SOCIAL STUDIES**Course # 304**

Credit: 1

Prerequisites: None

The Senior Social Studies course is the base social studies for twelfth grade students. One semester of the course is devoted to a study of the American model of the Free-enterprise economic system. The course will utilize and follow the Junior Achievement Applied Economic Course. Textbooks, workbooks, consultants and computer simulations are provided by Junior Achievement.

The other semester is a study of American Government. A government text will be provided as a base. An emphasis will be placed on study of individual freedom and American Democracy. Students will be encouraged to deal logically with various political problems.

The course will encourage enhancement of communication, research, and technological skills of each student in various projects throughout the year.

ADVANCED PLACEMENT WORLD HISTORY**Course # 309**

Credit: 1

Prerequisites: Staff Approval

The Advanced Placement World History course is an academic, yearlong, freshman college level course with an emphasis placed on non-western history. It may be scheduled as a replacement course for our sophomore world cultures class or scheduled as an elective for juniors and seniors. The course relies heavily on college level texts, primary resource documents, and supplemental readings. Students will be required to participate in class discussions, research and developmental workshops, individual and collaborative projects, and enrichment activities. A focus will be heavily placed on the interpretation of historical and analytical research and the formation of responses to document-based questions (DBQ). In addition, objective assessments, simulations, and integrated technology assignments will also be explored. Students are strongly encouraged to participate in the Advanced Placement Examination concluding the course in efforts to receive actual college credits from participating colleges and universities.

ADVANCED PLACEMENT UNITED STATES HISTORY

Course # 310

Credit: 1

Prerequisites: Staff Approval

Advanced Placement United States History is part of the Advanced Placement curriculum. It is intended for those students with an interest in the liberal arts or history, and culminates with the A. P. exam in May. The scope of the course covers the entire range of United States history from exploration to the modern times. Testing is the primary means of evaluation and the tests are similar to the A. P. exam. There is also extensive weekly work. The primary textbook is *The American Nation*, 8th edition, by John Garraty.

PSYCHOLOGY

Course # 311

Credit: 1 (BHS) .5 (SHS)

Prerequisite: Staff Approval

The course objectives are to introduce the students to the major concepts of general psychology, namely the behavioral, humanist, cognitive and psychoanalytic approaches. Also introduced are the general characteristics and treatments of mental disorders. Most of the grades are based on exams that require the students to write descriptive short essays. Sample experiments and studies are also used to illustrate various concepts. Finally, guest speakers and field trips may be a part of the class. The textbook is *Psychology and You*, 2d ed. 1995, by Judith and Frank McMahan and Tony Romano.

CURRENT EVENTS

Course # 312

Credit: 1 (BHS) .5 (SHS)

This elective course will cover one full year (BHS) or semester (SHS). The primary objective will be to develop an awareness of current events and their significance to contemporary society. Students will analyze and relate developments in the political, social, historical, cultural and economic aspects of human activity. To achieve these goals, students will make use of video tapes of television programs such as "60 Minutes," "Biography," CNN Broadcasting" and "Dateline." Also, students will use current local and national newspapers.



SCIENCE

GENERAL SCIENCE 9

Course # 401

Credit: 1

Prerequisite: None; Required 9th grade science

General Science is the study of the earth and of the universe around it. Since the beginning of human history, people have observed the world around them and wondered about the forces that shaped that world. Throughout the ages, people accumulated an organized body of knowledge about the earth, and the field of earth science was born. Earth science, like other modern sciences, is based on the assumption that the causes of natural phenomena can be discovered through careful observation and experimentation.

General Science is divided into several sections: astronomy, meteorology, and Physical and Historical Geology. Together, these branches will help students understand our physical home within the universe. Such understanding will help us make wise decisions, both now and in the future.

Students will participate in a variety of laboratory activities, classroom demonstrations, and written work. Assessment will be based on successful completion of objectives, through a variety of assessments. Notebooks are required. General Science is a required course for all freshman students.

BIOLOGY

Course # 402

Credit: 1

Prerequisites: Completion of 9th grade General Science

This is offered to students as a academic survey of the biological sciences. Students are introduced to the broad range of disciplines that are encompassed by the life sciences. Students are shown the manner in which science is approached as an effort to understand and manage daily life. Topics such as cell biology, taxonomy, genetics and science process are emphasized. Hands-on activities are incorporated and the successful student will engage in an active role in class discussions and activities. Assessments will include major projects and traditional tests. This is typically a sophomore class though students who intend to continue science education at the post-secondary level may wish to enroll as a freshman. This is a full year, one credit course.

PHYSICAL SCIENCE (11 –12) BHS**Course # 410**

Credit: 1

Prerequisite: Biology

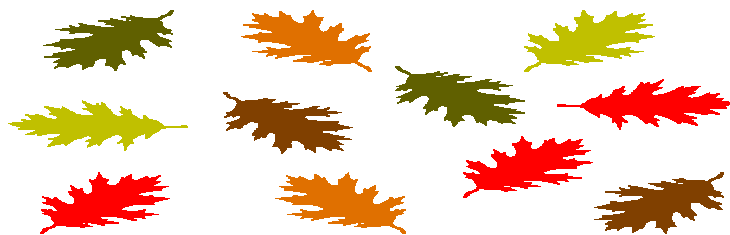
Physical Science is an essential course that will deal with the laws of nature and how man's technology utilizes them in everyday life. The course is designed for the student to acquire a fundamental understanding of chemistry and physics. Topics include: Scientific Method of Research, the International System of Measurement, Mechanics of Motion, Energy Sources, Physical & Chemical Properties of Matter, Atomic Structure, Basic Chemistry of Elements and Compounds, and other fundamentals of chemistry and physics. Students will participate in a variety of laboratory activities, classroom demonstrations, and written work. Assessment will be based on successful completion of objectives, course portfolios, and major chapter exams. Notebooks are required, and basic calculators are recommended, but not necessary.

MOTION & MATTER (SMHS only)**Course # 411**

Credit: 1

Prerequisites: Biology

Motion & Matter is a full year course designed for the student to acquire a fundamental understanding of chemistry and physics. Topics include: Scientific Method of Research, the International System of Measurement, Mechanics of Motion, Energy Sources, Physical & Chemical Properties of Matter, Atomic Structure, Basic Chemistry of Elements and Compounds, and other fundamentals of chemistry and physics. Students will develop higher level thinking skills such as decision making and problem- solving. Students will be required to complete homework as well as lab work throughout the course. In addition to these two areas, assessment will also be based on classroom assignments, chapter exams, portfolios, and projects. Notebooks are required and calculators are recommended.



CHEMISTRY**Course # 404**

Credit: 1.4

Prerequisite: Algebra I, Biology

Chemistry is the study of matter and how its properties and changes are a consequence of its structure. Chemistry also investigates the energy changes that accompany the changes in matter. It is, therefore, the goal of high school chemistry to increase the student's understanding, knowledge, and appreciation of the structure and behavior of the physical universe. A course in high school chemistry will also help the student mature intellectually. It should make the student a better problem solver, develop critical thinking skills, and help the student see the connections between chemistry and other subject areas. Hopefully he/she will become a lifelong learner.

This course meets seven periods per week. A minimum of 2 periods per week will be designated for laboratory experiments. Topics to be covered include the nature of chemistry, the structure of matter, interactions of matter, stoichiometry, states of matter and solutions. Assessments will include chapter tests and quizzes, performance-based lab experiments and reports, homework assignments, teacher observation, and major tasks/projects. There will be one project every quarter, and a final exam will be given at the end of the year.

PHYSICS**Course # 405**

Credit: 1.4

Prerequisite: Biology

Prerequisite/Co-requisite: Chemistry

This course is an introductory physics course, which incorporates the study of motion, forces, energy, work, power, machines, electricity, magnetism, sound, waves, and light. Homework is assigned often and lab work is integrated when possible. Assessments are based on major exams at the end of each chapter, lab reports, occasional rubrics, homework, portfolios, projects, and the final exam/project. Students are expected to provide their own notebooks and calculators.

BIOLOGY II**Course # 406**

Credit: 1

Prerequisites: Completion of Biology I with a grade of "C" or better and approval of course instructor or placement by guidance counselor. Chemistry must be taken before, or concurrent with, enrollment in this course.

This is an elective course designed for students who plan on pursuing post-secondary science education, **or** life science related occupations. This course is divided into two major sections: Taxonomy and Mammalian Anatomy. The course is project oriented with an essential reading and writing component. Students who take this course will be required to participate actively in a collaborative setting. This is considered a college preparatory course.

ADVANCED PLACEMENT CHEMISTRY

Course # 407

Credit: 1.4

Prerequisite: Algebra II, Chemistry & Instructor Approval

This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. This course meets seven periods per week. A minimum of 2 periods per week will be designated for laboratory experiments. Since AP Chemistry is the same course that is taught to freshmen at the university level, completion of this course would provide the student the option of taking the College Board's AP Chemistry Examination. This could allow the student to be exempted from chemistry in college and receive college credit while still in high school.

Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. This course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. A great emphasis will be placed on chemical calculations and the mathematical formulation of principles. Students will encounter more advanced laboratory methods and experiments that must be accompanied by detailed and organized laboratory reports. AP Chemistry is much more rigorous and quantitative than Chemistry; virtually every concept exposes the student to a problem-solving situation. As a result, the student completing the course should have enhanced problem-solving and critical thinking skills and begin to see how other subjects such as mathematics, physics, and communication courses are integrally related and important. Students will see a connection between chemistry and their everyday lives as part of society. Assessments include chapter tests and quizzes, performance-based lab experiments and reports, practice problems, teacher observation, and major performance tasks/projects. Each student will also complete a project and final exam at the end of the year.

The teacher recommendation is that only students who earned a final grade equal to or greater than 93% in Chemistry should consider taking AP Chemistry. The successful completion of Algebra II is essential due to the nature of the chemical calculations encountered in this course.

ADVANCED PLACEMENT PHYSICS

Course # 408

Credit: 1.4

Prerequisite: Physics/instructor permission

This course is a college level calculus-based Physics I course and consists of an in-depth study of mechanics. Topics include vectors, motion in one, two, and three dimensions, rotary motion, force, energy, work, power, gravitation, oscillatory motion, and fluid dynamics. Homework and lab work is an integral part of the course and is utilized extensively. Assessments are based on major exams at the end of each chapter, lab reports, occasional rubrics, homework, portfolios, projects, and the final exam/project. Students are expected to provide their own notebooks and calculators.

HEALTH & PHYSICAL EDUCATION

PHYSICAL EDUCATION 9 (Block 9)

Course # 501

Credit: .25

Prerequisites: None

The secondary physical education program, grades nine through twelve, will expose all students to the concepts of physical education and physical well being. To achieve these goals, the students will be provided opportunities to participate in a variety of physical activities, which will give them an understanding for the needs of physical fitness in their life. The physical education program will incorporate decision-making skills while promoting lifetime activities through sports, games and other activities to attain a desirable level of physical well being.

PHYSICAL EDUCATION 10

Course # 502

Credit: .4(BHS) .25 (SHS)

Prerequisites: None

The secondary physical education program, grades nine through twelve, will expose all students to the concepts of physical education and physical well being. To achieve these goals, the students will be provided opportunities to participate in a variety of physical activities, which will give them an understanding for the needs of physical fitness in their life. The physical education program will incorporate decision-making skills while promoting lifetime activities through sports, games and other activities to attain a desirable level of physical well being.

PHYSICAL EDUCATION 11

Course # 503

Credit: .4

Prerequisites: None

The secondary physical education program, grades nine through twelve, will expose all students to the concepts of physical education and physical well being. To achieve these goals, the students will be provided opportunities to participate in a variety of physical activities, which will give them an understanding for the needs of physical fitness in their life. The physical education program will incorporate decision-making skills while promoting lifetime activities through sports, games and other activities to attain a desirable level of physical well being.

PHYSICAL EDUCATION 12**Course # 504**

Credit: .4

Prerequisites: None

The secondary physical education program, grades nine through twelve, will expose all students to the concepts of physical education and physical well being. To achieve these goals, the students will be provided opportunities to participate in a variety of physical activities, which will give them an understanding for the needs of physical fitness in their life. The physical education program will incorporate decision-making skills while promoting lifetime activities through sports, games and other activities to attain a desirable level of physical well being.

HEALTH 10**Course # 506**

Credit: .6 (BHS) .5 (SHS)

Prerequisite: None

The secondary health program will expose all students to the concepts of total wellness including physical, mental, social and intellectual health. Healthy living will be addressed by providing active experiences that allow all students to practice applying healthy choices to real life situation. Health education will also include problem-solving, critical thinking and decisions making skills. These are essential to student recognition of healthy behavior that can ultimately ensure a healthy lifestyle.

In addition to decision making, topics to be covered are: alcohol, tobacco and substance avoidance, function of the human reproduction system, disease prevention and control promotion of healthy lifestyles, and continued physical activity throughout one's life. Also, dietary guidelines and nutritional needs, community health resources, injury prevention, and the ability to respond in an emergency situation. Assessments will include chapter tests, quizzes, homework assignments, chapter worksheets, journals, various small projects and teacher assessment. The final may consists of either a written competency test or a teacher directed project.

FITNESS AND SPORTS DEVELOPMENT**Course # 510**

Credit: 1

Prerequisite: A course that can be taken in place of Physical Education 11
or Physical Education 12

Fitness and Sports Development is an elective program designed to continue the growth and development of physical skills. Great emphasis is placed on creating a daily physical conditioning program through the use of resistive exercises three days a week. The remaining two days of the week will include activities in the gymnasium that may include, but are not limited to: archery, aerobic conditioning, basketball, floor hockey, football, soccer, softball, track & field, volleyball, wrestling, as well as lifetime sports such as badminton, table tennis, and shuffleboard. Assessments are based on active class participation and teacher observation.

BUSINESS AND TECHNOLOGY EDUCATION

COMPUTER LITERACY III (Block 9)

Course # 601

Credit: 0.25

Prerequisite: None

The Computer Literacy III course is designed to introduce the students to the fundamentals of word-processing, spreadsheets, and Internet research. Students will learn to create professional-looking documents, format, and edit documents using the power of the personal computer. In addition, students will utilize the Internet as a research tool and will be able to search the Internet for relevant information. All work is project-based using a Windows-based operating system. Students will be required to complete a variety of projects; each designed to enhance computer application skills. The student exiting this course will be able to use the personal computer to complete projects that may be given in other courses.

DESKTOP PUBLISHING AND WEB PAGE DESIGN

Course # 602

Credit: 1

Prerequisites: None

Desktop publishing and Web page design is a course that will teach the students to understand and apply the elements of design to publish printed media documents and web pages. Through problems and project students will build their skill in creating, editing, and enhancing page layout and design of many documents and media. Students will utilize Microsoft Word, Publisher, and Web page software in this course.

COMPUTER TECHNOLOGY WORKSHOP (BHS only)

Course # 603

Credit: 1

Prerequisites: Computer Literacy III (Block 9) with a grade of "C" or better.

Computer Technology Workshop is a class designed for students who want to develop advanced skills in the use of productivity software such as Microsoft Word, MS Excel, MS PowerPoint and others. Students are expected to be highly motivated, self-directed learners. The class is project based and students will design and carry out their studies and activities with the guidance and assistance of the teacher. Students must meet high ethical standards for appropriate use of the network system at BSSD.

VIDEO PRODUCTIONS**Course # 615**

Credit: 1

Prerequisite: None

Video Productions will cover basic history of video and other media types and how they are used to their full potential in today's information society. All students will learn and practice production techniques with available equipment and produce several taped productions along with live broadcasts. Students may be asked to work on projects alone, in groups, at the TV studio or at home. They will improve both their writing and speaking skills throughout the course. All students are expected to participate each day in the studio when producing either morning announcements or taped projects. Past projects include daily announcements, a documentary of student life and live sports programming during football season.

ACCOUNTING I**Course # 710**

Credit: 1

Prerequisite: None

This course aims to develop an understanding of basic principles of accounting and how they can be adapted to personal, social, or vocational use. The student will use automated accounting methods to develop an understanding of the internal workings of a business. The student will be able to keep a set of books, both manually and automated, for a service business formed as a sole proprietorship and also for a merchandising business formed as a partnership. Income tax preparation, federal, state and local will also be presented.

ACCOUNTING II**Course # 711**

Credit: 1

Prerequisite: Accounting I

This course aims to perfect an understanding of the principles of accounting. Emphasis will be aimed on automated accounting procedures and applications. Understandings of how to prepare, read and interpret special journals, business reports and financial statements of a business. This is an essential part of this course. Concentration will be placed on partnership and corporate accounting areas. Income tax preparation federal, state, and local will also be presented.

ACCOUNTING III**Course #712****Credit: 1****Prerequisite: Accounting I and II**

This advanced course of accounting is designed for students that plan to pursue a career in accounting or a related business area. Advanced work in: inventory, uncollectible accounts, payroll, depreciation, notes payable and receivable will be a major part of this course. Control systems will also be addressed including a voucher system. Special journals will be used in this course. Students taking this course should have had already successfully completed (with at least 85%) Accounting I and II.

WORD PROCESSING FUNDAMENTALS**Course # 713****Credit: 1****Prerequisite: None**

The student will be introduced to the concepts and terminology of word processing using a PC in a Windows environment. This course will emphasize the techniques and skills necessary to develop both speed and accuracy, and production ability while preparing business documents. In addition, training in word vocabulary skills, mechanics of punctuation and grammar, format and style, and proofreading documents. Microsoft Office will be used in production of business documents and applications, including creating and maintaining files, repetitive documents, revising and printing. Simulations will be used to enhance learning and to simulate “on the job experiences.”

ADVANCED COMPUTER APPLICATIONS**Course # 714****Credit: 1****Prerequisite: Word Processing Fundamentals**

The student will be introduced to the concepts and terminology of word processing using a PC in a Windows environment. This course will emphasize the techniques and skills necessary to develop both speed and accuracy, and production ability while preparing business documents. In addition, training in word vocabulary skills, mechanics of punctuation and grammar, format and style, and proofreading documents. Microsoft Office will be used in production of business documents and applications, including creating and maintaining files, repetitive documents, revising and printing. Simulations will be used to enhance learning and to simulate “on the job experiences.”

MARKETING ESSENTIALS/BUSINESS AND PERSONAL LAW Course # 715

Credit: 1

Prerequisite: Grades 10 – 12 only

This course will allow students to discover customer wants and needs, and to gain a solid understanding of creating, advertising, and selling products. This course covers all aspects of marketing, from basic economics to employment in the marketing field. This course will also familiarize students with legal principles and practices used in our legal system. Topic covered will include: consumer law, criminal law, common torts, contract law, employment rights, and family law.



ART

ART 9

Course # 801

Credit: .25 Block 9

Prerequisite: None

Art 9 is a required course for all high school students. The emphasis is on developing drawing and painting skills. The students will also develop art criticism skills by describing, analyzing, interpreting and judging their work, as well as the work of others.

ART I

Course # 812

Credit: 1

Prerequisites: none

Art I is an elective designed to enable students to develop skills using a variety of materials and techniques. The course will include experiences in two-dimensional and three-dimensional works. Students will view and respond to their work and the work of others. This will include art works from the time of the caveman to the Renaissance Period. Types of assessment include art projects, quizzes, critiques, portfolios, teacher observation and a variety of other assignments.

ART II

Course # 813

Credit: 1

Prerequisites: Art I

Art II is an elective designed to enhance skills presented in Art I. Students in this course will be expected to demonstrate higher levels of these skills. They will also survey art from the Renaissance Period through the present. There will be an emphasis on Modern Art. Types of assessment include art projects, quizzes, critiques, portfolios, teacher observation and a variety of other assignments.

3-D ART I (SMHS Only)

Course # 814

Credit: 1

Prerequisites: Art I and Art II

3-D Art I is an elective that will introduce the students to three dimensional media and techniques. This course will provide a variety of experiences including discussions about their work and the work of others.

Types of assessment include art projects, critiques, teacher observation and a variety of other assignments.

ADVANCED ART (BHS Only)

Course # 815

Credit: 1

Prerequisites: Art I and Art II, and teacher recommendation. The student must demonstrate the ability to work creatively and independently.

Advanced Independent Art is an elective for serious art students to work independently to refine skills in the area of their choice. An emphasis will be placed on the production of quality work to be included in a portfolio. Types of assessment will include art projects, teacher observation and portfolio.



MUSIC EDUCATION

BAND

Course # 810

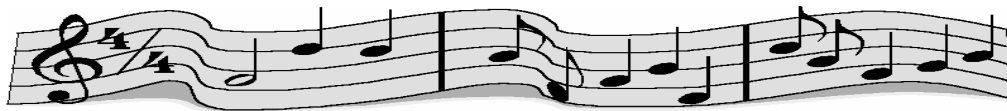
Credit: 1

Prerequisites: Play or willing to learn to play a band instrument.

Band is an elective course, divided into two sections – Marching Band and Concert Band. Students in grades-7 – 12, who show proficiency on their band instrument, are eligible to participate. The marching band performs at various parades and all home and away football games. The concert band performs several evening concerts during the year. Band meets five times a week for one period. Band students in grades 6 – 8 are provided with instrumental lessons once a week.

The purpose of the course includes playing for enjoyment, developing technical skills, and reading and studying a widely varied band repertory including modern, popular, and classical styles. Course objectives include developing ensemble performance skills such as posture, tone, intonation, breathing, rhythm, and articulation, and using these skills in expressive musical performances.

Students will provide their own instrument; some school instruments are available. Lesson materials are to be purchased by the students. The school provides all concert music. Periodic playing assessments & concert performances are part of the grading process.



CHORUS

Course # 811

Grade: 9-12

Credit: 1.0 or .6 (3 days/week)

Prerequisites: None

The High School Chorus is a performing ensemble that meets during the school day and performs several evening concerts during the year.

The purpose of the course includes singing for enjoyment, developing vocal skills, and reading and studying a widely varied choral repertory including secular, popular, and classical styles. Course objectives include developing ensemble performance skills such as posture, tone, intonation, breathing, rhythm, and articulation, and using these skills in expressive musical performances.

The school provides all concert music. Periodic singing assessments & concert performances are part of the grading process.

INDUSTRIAL TECHNOLOGY

TECHNOLOGY EDUCATION 9 (BHS)

Course # 901

Credit: .25

Prerequisites: Industrial Technology 8

In this course, students will complete activities designed to explore the various content areas of technology. Hands-on activities will develop student's technical problem solving skills and the impacts of related technologies. Formal models will be used as an organizational tool for helping students understand and describe how various technical systems work.

TECHNICAL DESIGN 1

Course # 909

Credit: 1.0

Prerequisites: Technology Education in Block 8 or Block 9

This course is an activity-based environment that places an emphasis on developing and applying the students general knowledge, math skills, creativity, and resources to problem solve drafting, design, and engineering challenges. Students will utilize both mechanical drafting equipment and Computer Aided Drafting (CAD) applications. In addition, students will understand the career and personal applicability of technological design knowledge.

TECHNICAL DESIGN 2 (SMHS Only)

Course # 910

Credit: 1.0

Prerequisites: Technical Design 1

Technical Design 2 (CADD) is structured to expand students drafting interests and design skills using graphic and electronic communication technologies. Various problem solving activities will be assigned that will require the use of developed technical skills and interpretation of general knowledge.

APPLYING TECHNOLOGY

Course # 911

Credit: 1

Prerequisites: Technical Design 1

Applying Technology is an activity-based course that focuses on the application of the tools, materials and processes of communication, manufacturing, construction, and transportation. Students will study the ways materials, energy, and information are processed to interpret information, build structures, make products, and move passengers and freight. Students will solve technological problems using their skills developed through their prerequisites as they design, plan, analyze, and construct projects individually or collaboratively. Students will be responsible for the costs of materials consumed on individual projects.

CREATING TECHNOLOGY (SMHS Only)**Course # 912**

Credit: 1

Prerequisites: Block 8 or 9, Technical Design 1 and Applying Technology

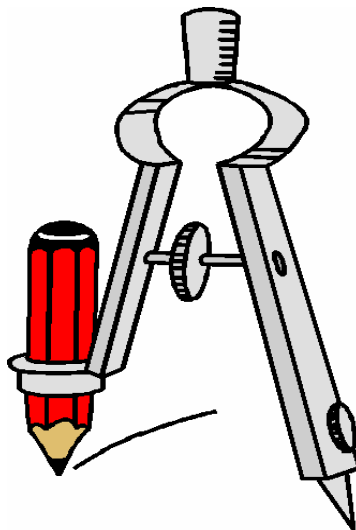
Creating Technology is an activity-based course in which students will form an enterprise (company). Students participate in the development of an organization and management of the enterprise: select and engineer/design a product, determine the manufacturing costs, raise capital, interview and be interviewed as they select a work force, design production requirements, manufacture, advertise, sell, and calculate and distribute final profits. Students play the roles of a variety of different careers and solve real design, engineering, production, and economic problems. Students will be responsible for the costs for various materials consumed in this course.

PHYSICAL TECHNOLOGY (SMHS Only)**Course # 913**

Credit: 1

Prerequisites: Block 8 or 9, Technical Design, and Applying Technology

Physical Technology is structures to expand students drafting interests and design skills using graphic and electronic communication technologies. Various problem solving activities will be assigned that will require the use of developed technical skills and interpretation of general knowledge.



FAMILY & CONSUMER SCIENCES

FAMILY & CONSUMER SCIENCE II (Block 9)

Course # 902

Credit: .25

Prerequisites: None

Family and Consumer Science II is a comprehensive continuation of FACS I (Grade 8). Learning objectives may include personal finance, childcare and safety, consumer rights and responsibilities, foods and nutrition, and clothing construction and maintenance. FACS is a part of the ninth grade curriculum block. Assessments include project evaluation, test and quizzes, and lab evaluations that may include analyzing, simulation, application of learning, and also corrected methods.

FAMILY & CONSUMER SCIENCE III - INDEPENDENT & FAMILY LIVING (SMHS Only)

Course # 914

Credit: 1

Prerequisites: FACS I and FACS II

This comprehensive course is designed to provide students with a wide-range of topics to explore based upon specific interests of the class. Units may include, but are not limited to the following topics:

- Housing & Architectural styles
- Interior Design
- Career Exploration
- Dating & Relationships
- Marriage
- Parenting
- Personal Finance
- Creative Foods
- Community Service
- Textiles

The objective of this course is to provide students with information that will enhance their understanding of special interest areas. Emphasis is placed on learning skills that will provide balance between work and family life. Potential projects include interior design portfolios, personal mission statements, information on buying a car and buying a house, individualized sewing and fiber projects, creative foods, and identifying community service projects.

CLOTHING & TEXTILES (BHS Only)

Course # 915

Credit: 1

Prerequisites: None

The main objective of this course is to provide the student with a wide range of hands on project construction opportunities, creating an enjoyable learning experience in the areas of clothing and textiles. The student, with prior approval of the teacher, selects his/her own projects and purchases materials that are needed to complete those projects. Besides projects, study and activities in the area of design, fibers, textiles, consumer skills, wardrobe planning and care, and also career explorations are available to the student. Assessments include project evaluations, activity and participation grades, tests, and portfolio entries.

EARLY CHILDHOOD

Course # 916

Credit: 1

Prerequisites: None

Early Childhood is an elective course. The physical, social, and emotional development is taught for the various ages and stages of children. A wide variety of hands-on learning methods are employed. Emphasis is placed on prenatal development and parenting responsibility. Volunteerism is strongly encouraged. Assessment methods used may include project evaluations, tests and quizzes, and participation.

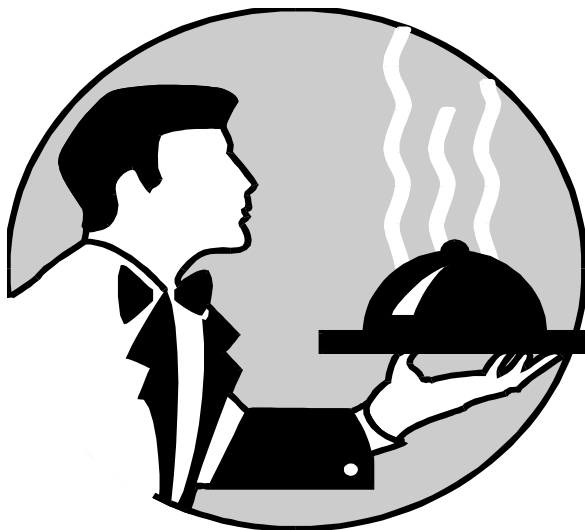
CONSUMER FOODS & NUTRITION

Course # 917

Credit: 1

Prerequisites: None

Emphasis is placed on food preparation, consumer and management skills, and food trends and technology. Also addressed are the social and cultural aspects of food, along with food sanitation and safety. Group cooperation is strongly emphasized. Assessments used include lab evaluations, tests and quizzes, projects, and corrected methods.



GIFTED EDUCATION

SCIENTIFIC RESEARCH

Course # 1110

Credit: 1.0 or .5 (credit is optional, IEP only)

Prerequisite: Identified Gifted Students only

The Blairsville-Saltsburg School District readily acknowledges the need to provide advanced educational opportunities for our advanced students identified with the special needs exceptionality of Gifted. The opportunities currently available in our District consist of a combination of two (2) components:

1. An Advanced Academic Program culminating in our Advanced Placement (AP) Program including AP Calculus, AP Chemistry, AP Physics, AP US History and AP English as well as accelerated sequence in math and science.
2. A Co-curricular Enrichment Program consisting of academic games and events such as the Pennsylvania Junior Academy of Science (PJAS), Quiz Bowl, Science Olympiad, Physics Olympics, Brain Drain, visitations, IUP mentorship class capabilities, various research projects, work release initiatives, and regional, state and national competitions.

The Individual Education Program (IEP) is developed through the synergistic blending of these components as expressed in the following options:

The Classroom Format:

The students will attend a Scientific Research Class where he/she will select and develop projects to be assessed on a nine-week basis. This is a one (1) credit course that will be reflected on the student's report card and tabulated into the student's grade point average (GPA). The instructor will also act as an advisor and assist the student in the development and completion of these projects, participation in various competitions and appropriate selection of academic classes.

The Consultative Format:

The student will not attend a regularly scheduled class. Instead, he/she will meet with the instructor to implement his/her academic program as expressed in the IEP. In this format the instructor will act as an advisor and assist the student in the development and completion of projects, participation in various competitions and appropriate selection of academic classes. Whether or not a student elects to design a project and/or receive a grade and/or credit for the Scientific Research Class will be determined during the IEP process.

INDIANA COUNTY TECHNOLOGY CENTER

Program Cluster Areas

AUTOMOTIVE TECHNOLOGIES

Automotive Technology
Collision Repair Technology

CONSTRUCTION & BUILDING TRADES

Carpentry
Electrical Occupations
Masonry

ENGINEERING TECHNOLOGIES

Machining Technology
Welding Technology
HVAC

INFORMATION TECHNOLOGIES

Digital Media Technology
Graphics and Electronic Media
Network Communications

PUBLIC SERVICES

Health Occupations Technology
Cosmetology
Culinary Arts

AUTO TECHNOLOGY

Full Year

3 CREDITS/YEAR

To appreciate the complexities of the automotive industries today, students need to take a look back at the gas-guzzling vehicles of yesteryear and compare them to today's computer-monitored, fuel-efficient, environmentally-friendly automobiles. When one realizes how far technology has advanced, then it is easy to understand that specialized training in automotive technology is the key to an exciting, high-paying career.

Students enrolled in the automotive technology program enjoy the benefits of a fully comprehensive ASE certified and Automotive Youth Educational Systems (AYES) program. The course of study, facilities and program equipment have been evaluated by the National Automotive Technicians Education Foundation (NATEF) and meet the National Institute for Automotive Service Excellence (ASE) standards of quality for the training of automobile technicians.

Qualified Auto Tech students earn the additional benefit of state inspection certification training as they finish their final year in the program.

Automotive Technology is a field of change. There is unlimited growth opportunity for students willing to pursue the most up-to-date training available in future automotive technologies.

Planned Courses

Safe Use of Tools and Equipment
General Automotive and Engine Maintenance
NATEF Brakes
NATEF Suspension and Steering Systems
NATEF Engine Performance

Manual Drive Train and Axles

Heating and Air Conditioning

Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Geometry

Advanced Standing

Community College of Allegheny County - Up to 5 Credits

Automotive Engineer*
Front End Mechanic
Automobile Mechanic Helper
Brake Repairer
Automotive Retail Salesperson
Heavy Duty Truck Technician*
Automotive Service Manager/Writer*
Dispatcher*
Transmission Specialist*
Automobile Mechanic - *May or may not require post-secondary education.*

**Post-secondary education required*



COLLISION REPAIR TECHNOLOGY

Full Year

3 CREDITS/YEAR

Collision Repair Technology--It's a trade...a profession...a career. Students who are creative, meticulous, proud of their work and fascinated with automobiles will enjoy seeing their reflection in the finish of a Collision Repair Technology project.

Collision Repair Technology students will have the opportunity to learn the skills to return a damaged vehicle to its original showroom quality finish. Collision Repair Technology students learn to apply automotive finishes in a state-of-the-art paint booth. They also learn the art of air brushing and customizing. Students are taught cost estimating, frame straightening, MIG welding, reshaping metal parts and replacing body component parts.

Qualified second year students have the opportunity to participate in specialized training available through the PPG Research Center. Participating students in the PPG training course receive a Certificate of Completion in refinishing systems. ***The ICTC Collision Repair Technology program is the first in the nation to offer seniors the opportunity to earn the PPG—Blue Level Certification.***

Planned Courses

Body Shop Safety Practices
Repair Techniques/Minor Repair
MIG Welding
Automobile Construction
Repairing Automobile Panels
Structural Repair
Refinishing
Detailing
Estimating



Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Geometry
Biology

Career Opportunities

Automotive Detailer
Collision Estimator*
Collision Repair Technician - *May or may not require post-secondary education.*
Automotive Refinisher - *May or may not require post-secondary education.*

**Post-secondary education required*

CARPENTRY

Full Year

3 CREDITS/YEAR

Opportunity for success in the carpentry field is driven by knowledge and ability, enhanced by focused education and training. Students possessing creativity, independence, motivation, pride and enthusiasm for learning may want to explore carpentry as their career.

Carpentry-related theory and skills are taught using a competency-based instructional framework requiring students to demonstrate their ability to safely perform specific job-related tasks in order to prepare for the carpentry job market. Students receive instruction in all phases of residential carpentry beginning with design and layout and working through the final stages of interior and exterior finishing and trim installations. Students gain the entry-level foundation skills for them to enter either immediate employment or post-secondary training which allows them to choose from a variety of other carpentry-related fields.

Rapid advancement in technologies impacts carpentry in the construction field through improved tools, equipment and materials available. Carpentry students will become proficient in the use of the many new techniques, tools and equipment available in today's technological society. Field trips, on-site project experiences and repeated training in primary skill areas will prepare students for the career of a lifetime.

Planned Courses

Hand and Power Tool Operation
Building Layout
Floor Framing
Wall Framing and Ceiling Framing
Roof Framing
Exterior Finish
Interior Finish
Math
Concrete Footings, Foundations and Forms



Academic Courses)

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Biology
Chemistry

Advanced Standing

Penn College of Technology—Credits vary based on the student's career objective and competencies earned.

Career Opportunities

Carpenter*
Carpenter, Construction*
Carpenter, Finish Specialist
Carpenter, Maintenance
Drywall Installer
Roofing Specialist
Siding Specialist
Home Center Service Personnel
Construction Management*
Building Construction Technician*

Post-secondary education required

ELECTRICAL OCCUPATIONS

Full Year

3 CREDITS/YEAR

The Electrical Occupations program enables students to gain skills needed to reach career goals. Students will learn residential and commercial wiring procedures in accordance with the National Electrical Code. The demand for new homes, the rewiring of older homes and the upgrading of services for others creates a strong need for qualified residential electricians. The skills gained in this course may be applied to many other areas in the electrical industry. The demand for more efficient use of electricity is creating a need for electrical skills in a broad range of workforce applications. The job requirements of the electrician are one of constant change and this has created an increasing demand for skilled and efficient electricians. Students educated in this technological field will have a head start in reaching for a better tomorrow.

Planned Courses

Safety and Ethics in School and at Work
Electrical Theory
Care and Use of Hand Tools
Low Voltage Circuits
Basic Residential/Commercial Circuits
Residential Wiring



Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Biology
Chemistry

Advanced Standing

Penn College of Technology—Credits vary based on the student's career objective and competencies earned.

Career Opportunities

Electrician's Helper
Electrician-Residential
Manufactured Housing
Electrician-Commercial*
Electrical Engineer*
Electrician-Maintenance*
Lineman Apprentice*

**Post-secondary education required*

MASONRY

Full Year

3 CREDITS/YEAR

Creativity is a key ingredient leading to success in the Masonry program. A bricklayer takes units of brick, block, or stone and with a trowel, mortar, skilled hands, and an eye for perfection molds them into buildings, buildings that will be around for generations to enjoy. Just look around--every home, school, mall, church, and sidewalk are part of a mason's creative genius.

Masonry may lead students to careers in bricklaying or stone- and cement-masonry. The Masonry program also provides an excellent foundation for a future in architecture and architectural engineering or a position as an estimator, a job foreman, and even a self-employed mason.

Planned Courses

Development and Manufacture of Masonry Materials
The Use and Care of Tools and Equipment
Mortar Mixing, Uses and Strengths
Essentials of Bonding
Masonry Practices and Details of Construction
Cleaning Masonry Work
Safety Practices
Understanding and Reading Construction Drawing
Design and Construction of Fireplace and Flue
Fundamental Use of the Transit and Level
Estimation of Materials and Labor
Concrete Finishing, Forming, Strengths and Uses
Laying Brick and Block



Academic Courses

(Recommended & Required for Tech Prep)
Algebra I
Algebra II
Biology
Chemistry

Advanced Standing

Penn College of Technology—Credits vary based on the student's career objective and competencies earned.

Career Opportunities

Bricklayer
Tile Setter
Stonemason
Cement Mason
Bricklayer Supervisor*
Business Owner*
Estimator*
Contractor*
Building Inspector*

**Post-secondary education required*

MACHINING TECHNOLOGY

Full Year

3 CREDITS/YEAR

Machining Technology is designed to provide each student with the latest technological skills needed for entry in the metalworking occupations. Students have the opportunity to operate state-of-the-art equipment, such as the Computer Numeric Controlled (CNC) machine. They also gain experience with the hands-on operation of standard machine tools used in the industry such as: drill presses, metal saws, lathes, milling machines and surface grinders. Related theory acquaints students with metal cutting applications, material properties, layout work, and construction and assembly of machinery. The application of mathematics and blueprint reading is also emphasized throughout the course as an integral part of all completed projects and competencies.

The ICTC's Machining Technology program is completing its final review to become a National Institute for Metalworking Skills (NIMS) Training Facility. Qualified students will have the opportunity to become certified in the NIMS Level I Machining Skills.

If students have patience and are willing to tolerate nothing less than perfection, a career in machining technology may be worth a look.

Planned Courses

Orientation to Machine Shop
Machine Shop Mathematics
Precision Measurement
Blueprint Reading
Performing Bench Work
Application of Technical Information
Power Saw Operations
Drill Press Operations
Lathe Operations
Milling Machines Operations
Precision Grinding
HAAS Control Panel
CNC Turning
CNC Milling
Master CAM Basics



Academic Courses

(Recommended & Required for Tech Prep)
Algebra I
Geometry
Trigonometry
Biology
Chemistry

Advanced Standing

Penn College of Technology - 15 Credits
Westmoreland County Community College - 12 Credits
Pennsylvania Highlands Community College - 12 Credits

Career Opportunities

Assembler Fixture Builder
CNC Programmer
CNC Operator
Milling Machine Operator
Precision Grinder*
Machinist Apprentice*
Tool & Die Maker Apprentice*
Mechanical Engineering Technician*

**Post-secondary education required*

WELDING TECHNOLOGY

Full Year

3 CREDITS/YEAR

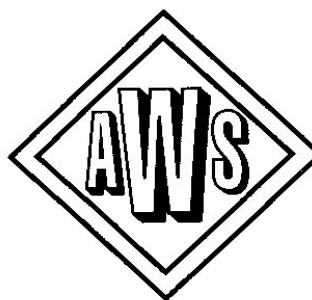
Welding has evolved into a sophisticated science and technology. Skills developed in Welding Technology at the Indiana County Technology Center are immediately transferable to the work site, community/technical college, university or other post-secondary institution. Additionally, the curriculum provides excellent preparation for those whose career goals include welding, mechanical or metallurgical engineering. The ideal candidate for this field will have good mechanical aptitude, imagination and excellent visualization skills.

The ICTC's Welding Technology program is partnering with the American Welding Society (AWS) to become an Accredited Testing Facility (ATF). The accreditation process will be completed in the future providing qualified students the opportunity to become a certified welder in accordance with the American Petroleum Institute (API) 1104 Code or the D1.1 Structural Steel Code.

Welding Technology is a HOT career choice!

Planned Courses

Basic Safe Work Practices
Safe Fabrication Equipment Operations
Oxy-fuel Cutting
Oxy-fuel Welding/Brazing
Shielded Metal Arc Welding
Gas Metal Arc Welding (MIG)
Gas Tungsten Arc Welding (Heli-Arc/TIG)
Metallurgy (Study of Metals)
Testing & Welding Inspection
Beginning Blueprint Reading
Intermediate Blueprint Reading
Advanced Blueprint Reading



American Welding Society

Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Geometry
Trigonometry
Chemistry
Physics

Advanced Standing

Westmoreland County Community College – Up to 18 Credits
Penn College of Technology – Up to 16 Credits

Career Opportunities

Arc Welder Apprentice
Combination Welder Apprentice
Experimental Welder (R&D)*
Weld Inspector*
Welding Technician*
Welder – Fitter Apprentice*
Welding Engineer*

**Post-secondary education required*

DIGITAL MEDIA TECHNOLOGY

Full Year

3 CREDITS/YEAR

The Digital Media Technology Program provides intense training for students who want to learn new skills, improve existing skills or prepare for post-secondary education in the stimulating world of electronic media. Electronic communications is an essential part of the business, education and entertainment industries. The program is designed to provide the educational starting point for students in web design, multimedia and video production. Students begin with a desire to grow through education and prepare for entry-level positions in web design, multimedia and video production.

The curriculum provides students with a comprehensive overview of web design, the World Wide Web, HTML, web and design graphics, and web site planning and development to create exciting web pages. Students will plan and design web sites in this program. They will also apply their web skills by designing and maintaining web sites for local non-profit organizations.

The Digital Media Technology program also provides students with intense and comprehensive learning experiences in digital video production techniques, processes and skills expected of those technicians involved in video production. The curriculum focuses on non-linear editing. Using various computer editing systems, students explore the basics of editing video and audio in a digital environment from digitizing video to outputting to various playback formats. By gaining competencies in camera operation, lighting, scripting, production techniques and editing, students create videos from initial ideas to final edited composition.

Software applications taught include:

- Dreamweaver MX
- Flash MX
- Director MX
- Adobe Photoshop
- Adobe Premiere

Each successful graduate completes the program with a digital portfolio of his/her best work and the skills to launch an exciting career in electronic communication.

Planned Courses

Web Page Development & Design
Customer Service/Communications
Multimedia
Graphics
Digital Video Camera Operation
Digital Video Lighting Techniques
Digital Video Editing

Academic Courses

(Recommended & Required for Tech Prep)
Algebra I
Biology
Chemistry

Advance Standing

Pennsylvania Highlands Community College—9 Credits

Career Opportunities

Web Page Designer
Producer/Director*
Web Master
Audio Specialist*
Videographer
Graphic Artist/Animator*
Video Crew/Production House Assistant
Computer/Video Journalist*

**Post-secondary education required*

GRAPHICS AND ELECTRONIC MEDIA

Full Year

3 CREDITS/YEAR

Graphics and Electronic Media should be viewed as an introduction to a complex and constantly changing career field. The software packages and computer technology devices available today are able to assist in the production of a variety of media formats which had been previously outsourced to printers or design agencies.

Students who are motivated by change, technology and creativity will find GEM to be the perfect educational setting. They will be introduced to the areas of desktop publishing, graphic design, photo editing and illustration. Students also will learn to use the digital color printer and scanning equipment. They will be encouraged to enhance their own creativity utilizing the most modern technology available.

The program is designed to allow interested students to bring together many areas of creative graphic design and production technologies. Skilled graphic artists have a creative flair required to produce eye-catching publications as well as talent and confidence to use up-to-date technology to output their creations.

The ICTC's Graphics and Electronic Media Technology program has made application to the Graphic Arts Education and Research Foundation PrintED® National Accreditation Program. The accreditation process will be completed in the future providing qualified students the opportunity to become certified in the Introduction to Graphic Communications and the Digital File Preparation areas.

Planned Courses

Safety in Graphics & Electronic Media
Fundamentals of Graphic Design
Fundamentals of Graphic Design II
Graphic Elements/Digital Image Preparation I
Graphic Elements/Digital Image Preparation II
Scanning Equipment Operation
Binding Principles
Pre-Press Technology
Software Applications

Academic Courses

(Recommended & Required for Tech Prep)
Applied Math I & Algebra I
Algebra II or Geometry
Biology or Applied Biology
Physics or Applied Physics

Career Opportunities

Graphic Designer*
Sales Agent
Pre-Press Production Artist
Electronic Illustrator
Typesetter

**Post-secondary education required*

NETWORK COMMUNICATIONS

Full Year

3 CREDITS/YEAR

Computers are used in all facets of everyday life and there is a constant demand for qualified technicians to work on them. Students will be trained in the installation and configuration of: motherboards, processors, memory, video cards, sound cards, network interface cards, modems, hard drives, floppy drives, CD-ROM drives, as well as CD burners, printers, external storage devices and much, much more. Software training will include all major operating systems including: DOS, Windows 9x, Windows 2000 Professional and Windows XP Professional. Students will also be trained in security and virus protection techniques. Students successfully completing the A+ program will be trained to install, maintain, upgrade and troubleshoot Personal Computers and their Operating Systems and may qualify for the CompTia A+ certification.

The Network Communications program is a Cisco Local Academy. Through the Cisco Academy, enrolled NC students will be trained to install Local Area Networks and Wide Area Networks utilizing the latest Cisco networking hardware and technologies including: networking basics, network layout and design, cabling, installation and configuration of network hardware including NICs, cable, patch panels, hubs, switches and routers. Students successfully completing the 2-year CCNA program will be trained to install, maintain, upgrade and troubleshoot networking hardware and software and may qualify for the CCNA certification from Cisco.

A+ - one year

Planned Courses:

Computer and Electrical Safety

Computer Hardware

Operating Systems and Applications

Networking Fundamentals

The A+ curriculum prepares students for the CompTia A+ entry-level computer technician certification exam.

CCNA (Cisco Certified Networking Associate) - 2 years

Planned Courses first year:

Networking Basics

Routers and Routing Basics

Planned Courses second year:

Switching Basics and Intermediate Routing

WAN Technologies

The CCNA curriculum prepares students for the Cisco entry-level certification for networking professionals.

Academic Courses

(Recommended & Required for Tech Prep)

Applied Math I & II

Algebra I

Algebra II or Geometry

Trigonometry or Solid Geometry

Biology or Applied Biology

Physics or Applied Physics

Chemistry, Chemistry I or Applied Chemistry



Advanced Standing

Westmoreland County Community College—29 Credits

Career Opportunities

Computer Technician / PC Specialist

Field Technician

Computer Analyst*

Computer Design/Engineer*

Computer Programmer*

Computer / Network Security*

Network Analyst*

Network Technician

Cabling Technician

LAN/WAN Technician

Network Engineer*

Network Administrator*

Computer Forensics*

**Post-secondary education required*

HEALTH OCCUPATIONS TECHNOLOGY

Full Year

3 CREDITS/YEAR

Students who are caring, compassionate and possess critical thinking skills should check out Health Occupations Technology (HOT). Statistics from the PA Department of Labor & Industry indicate that occupations in healthcare will continue to experience the highest growth rate.

Students enrolled in the HOT program will learn medical terminology, basic anatomy and physiology, common disease conditions and related patient care, communications skills and infection control techniques. Second and third year students have the opportunity to learn more about anatomy and physiology and to be introduced to medical office procedures. There are opportunities for students to investigate and explore many career options in the health care field both through shadow experiences and research projects.

Through scheduled clinical experience at local long-term care facilities, students apply learned health care theory to actual "hands-on" clinical practice. Students who satisfactorily achieve 108 theory hours and 42 clinical hours may be eligible to take the PA Nurse Aide (NA) competency exam. Passing the NA exam provides immediate entry into the job market.

Planned Courses

Introduction to Allied Health Careers
Medical Office Procedures
Introduction to Nursing Assistance
Legal and Ethical Standards of Health Professions
Infection Control
Safety and Emergency Care
Medical Terminology
Communication Skills
Anatomy and Physiology
Personal Care Procedures
Basic Nursing Procedures
Gerontology and Elder Care



Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Biology
Chemistry

Advanced Standing

Westmoreland County Community College - 3 Credits
Pennsylvania Highlands Community College - 9 Credits

Career Opportunities

Nursing Assistant
Pharmacy Technician*
Home Health Aide
Physical or Occupational Therapist or Assistant*
Medical Assistant*
Speech Therapist*
Dental Assistant*
Respiratory Therapist*
Surgical Technician*
Radiology Technician or Ultrasound Technician*
Registered Nurse*
Physician Assistant
Licensed Practical Nurse*
EMT or Para Medic*
Medical Lab Technician*
Massage Therapist*

**Post-secondary education required*

COSMETOLOGY

Full Year

3 CREDITS/YEAR

The cosmetology field combines talent, art, science and business, leading to a choice of rewarding careers. The ICTC cosmetology program offers a state-of-the-art facility meeting all licensing requirements of the Pennsylvania State Board of Cosmetology. Cosmetology students learn anatomy, cosmetic chemistry, bacteriology and sanitation. Students are taught the professional hair, skin, and nail procedures.

In the student-operated patron clinic, cosmetology students gain practical work experience and essential communication skills as they cut, style and color the customer's hair; apply skin care treatments and makeup; perform manicures and pedicures; manage the salon including scheduling appointments, ordering supplies; inventorying stock; and selling products.

All areas of this licensed profession are taught for a successful transition to the cosmetology field. The cosmetology program prepares students for the PA State board exams and provides a foundation for further training in business management, education, electrolysis, advanced aesthetics and nail technology. Enrolled students will have the opportunity to earn the required 1,250 hours necessary to attain a cosmetology license.

Planned Courses

Identify Principles of Cosmetology Science
Demonstrate Professional Practices
Care for Hair and Scalp
Manicuring
Perm Wave
Chemical Relaxing
Facial Treatments
Superfluous Hair Removal
Hair Cutting
Hair Coloring
Hair Styling



**Pennsylvania State Board of
Cosmetology License**

Academic Courses

(Recommended & Required for Tech Prep)

*Algebra I
Algebra II
Biology
Chemistry*

Indiana Cosmetology Academy will accept all earned ICTC Cosmetology Program hours.

Career Opportunities

Cosmetologist
Salon Owner
Salon Manager
Nail Technician
Manufacturer's Technician*
Makeup Artist*
Technical Writer*
Cosmetology Teacher*
Skincare Specialist/Esthetician*
Electrologist*
Cosmetic Chemist*

**Post-secondary education required*

CULINARY ARTS

Full Year

3 CREDITS/YEAR

Culinary Arts offers a wide range of career opportunities for those who enjoy preparing exciting cuisines and have an eye toward business ventures. This comprehensive program prepares students for entry level positions in the rapidly-growing food service industry.

The students' education is enhanced by participating in various catering projects and the operation of our full-service restaurant ---- these hands-on learning experiences help students refine table service and dining room management techniques.

Career opportunities in restaurants, resorts, country clubs, hotels and motels as well as on cruise ships and airlines are abundant. According to the National Restaurant Association, the food service industry is expecting job growth due to lifestyle trends.

The ICTC Culinary Arts program offers the prestigious American Culinary Federation (ACF) certification which meets the professional standards for culinary education. The ACF operates the only comprehensive certification program for chefs in the United States. The ACF certification is a valuable credential awarded to qualifying seniors after a rigorous evaluation of professional education experiences and after thorough testing.

Sanitation is one of the most important areas of concern in the restaurant industry today. The ServSafe course provides students information on the sanitary aspects of handling food including receiving, storing, preparation and serving. Upon successful completion of the ServSafe test, students will receive a ServSafe certification and will automatically become a member of the International Food Safety Council.

Planned Courses

Safety
Sanitation
Basic Table Service
Basic Cooking Principles
Basic Bake Shop
Advanced Food Production and Presentation
Advanced Pantry
Advanced Bake Shop
Inventory Control and Management Skills
Enhancement and Professional Development Skills



Academic Courses

(Recommended & Required for Tech Prep)

Algebra I
Algebra II
Biology
Chemistry

Advanced Standing

Westmoreland County Community College - 8 Credits
Pennsylvania Highlands Community College - 9 Credits

Career Opportunities

Cook
Dining Room Host/Hostess
Pastry Cook
Chef*
Dietician*
Kitchen Helper
Food Service Manager*
Nutritionist*

*Post-secondary education required

HEATING, VENTILATION AND AIR CONDITIONING - HVAC

Course Description

The Heating, Ventilation and Air Conditioning program at the ICTC prepares students to apply technical knowledge and skill to install, repair and maintain domestic heating, cooling and electrical systems. Instruction includes theory of application of principles in electricity, heating, cooling, sheet metal fabrication, customer service, indoor air quality, residential house wiring, how motors work in refrigerators, air conditioners, etc. The students will master competencies in the areas of basic plumbing and air (duct) sizing. In addition, construction work is included as a requirement for this field. Students must have a desire to work with their hands and be able to troubleshoot and repair equipment.

Planned Courses

Air Conditioning / Heat Pumps
Heating: Gas / Oil / Electric
Electricity
Electric Motors / Motor Controls
Sheet Metal Fabrication
Basic Plumbing
Indoor Air Quality
National Electric Code

Academic Courses

(Recommended & Required for Tech Prep)
Pre Algebra
Algebra
Geometry
General Science
Metal Shop

Career Opportunities and Annual Salaries

Controls Technician	\$35,000 - \$55,000
Electrician	\$30,000 - \$49,000
Sheet Metal Worker	\$29,000 - \$47,000
HVAC Service Technician	\$26,000 - \$47,000
Refrigeration Technician	\$29,000 - \$51,000
Business Owner	Unlimited

NOTES: