

ATTENTION ALL FACULTY !

Enclosed is a copy of the completed Curriculum Guide.
Course listing signature sheets for your grade level homeroom can be found in the teacher workroom.

Next year Sophomores - Yellow
Next year Juniors - Pink
Next year Seniors– Blue

Students may only select from those courses listed on their appropriate grade level course-listing sheet. For more accurate pre-enrollment numbers, please be sure that ALL students in your home room have completed signature sheets in order to pre-register/pre-bubble.

All students will be required to remain in school a FULL DAY. The only exceptions would be those students enrolled in at least two college classes per semester.

Only those students who have selected the
Business/Management – Management cluster/major
or
Business/Management – Tourism & Hospitality cluster/major
are permitted to sign up for Work Experience their senior year DURING regular school hours. Other students in clusters/majors requiring Marketing I and/or II will not be permitted to be released during regular school hours for Work Experience.

*Students wishing to take College classes must have a 3.0 cumulative GPA and at least a 19 comp on the ACT. Students MUST have an 18 on the English portion of the test to take College English. All students taking College English for high school credit MUST take BOTH semesters.

A copy of your ACT scores must be verified with Mrs. Jane Byrd before signing up for College Classes. Any student who has not received their scores must sign up for 8 classes, until verification of ACT scores can be made. A copy of the students ACT score MUST accompany registration of college classes

Once approved, students MUST sign up for at least 2 high school classes AND two (2) college classes per semester. Those students not enrolled in 2 college classes will be REQUIRED to take additional courses at the high school.

A copy of each student's 5-year plan MUST accompany the Signature Sheets.

Bridgeport High School
Course Offerings
2008 – 2009

MATH

****The successful completion of both Algebra IA (elective) and Algebra IB results in an Algebra I credit.****

302200 Algebra IA Prerequisites: None. An elective course designed to assist students in building a solid foundation in algebra. In this course students will explore algebraic concepts in an informal way to build a foundation for subsequent formal study of algebra. Such informal explorations should emphasize physical models, data, graphs, and other mathematical representations rather than facility with formal algebraic manipulations. This course will address half of the Algebra I CSOs.

302300 Algebra IB Prerequisites: Algebra IA. This is the second half of the Algebra I course that utilizes a conceptual approach to math and focuses on algorithmic methods. Algebraic representations will be used as a problem-solving tool. Calculators and other graphing utilities will be used as tools to enhance learning.

302100 Algebra I Prerequisites: “C” in Math 8 or special permission to retake the class for a stronger background. This course utilizes a conceptual approach to math and focuses on algorithmic methods. Algebraic representations will be used as a problem-solving tool. Calculators and other graphing utilities will be used as tools to enhance learning.

304300 Applied Geometry Prerequisites: Alg IA and Alg IB. Upon completion of this course, a geometry credit will be given. Manipulatives will be used to enhance the understanding of Geometry. The course will include applications of Geometry in “real life” applications. The course may include the use of tools such as “The Geometer’s Sketchpad”. No formal proofs are taught. Students taking this course will continue on to Conceptual Math.

304500 Geometry Prerequisites: “B” or above in Algebra I is recommended. This course is designed for those students who plan to take classes beyond Conceptual Mathematics. This course meets the requirements of the WV Geometry CSO’s course as well as developing logic, and both inductive and deductive reasoning skills. It is a faster paced course than Applied Geometry and requires formal proofs.

304100 Algebra II Prerequisites: “C” in Algebra I required, “C” in Geometry recommended. This course utilizes Algebra I concepts and extends understanding of the structure of Algebra. The course emphasizes problem-solving applications such as quadratic equations, complex numbers, systems of linear equations inequalities, absolute values and matrices. These topics are basic to higher-level math courses.

304400 Conceptual Mathematics Prerequisite: Successful completion of Algebra I and Geometry or Applied Geometry. This course will include major topics from algebra to geometry and will extend these ideas to practical usage. Basic ideas of probability and statistics and the math of finance will also be included. These, along with other concepts, will be presented in the context of their historical development. Students will be encouraged to be active learners in groups or as individuals. It is the purpose of this course to

expose students to topics in mathematics that are relevant to the educated person. Full integration of graphing calculators and computer applications are essential to the objectives of this course.

304800 Trigonometry **Prerequisites: “C” in Algebra I, Geometry and Algebra II is required.** Trigonometry is designed to extend concepts such as solving right triangles, the basic trigonometric functions, the area of a triangle, exact values of common reference angles and inverse functions. New concepts include graphing circular functions, converting between radians and degrees, solving trigonometric equations, developing identities, complex form, polar coordinates and vectors.

304600 Pre-Calculus **Prerequisites: Required “A” or “B” in Algebra II and Trigonometry.** Topics include graphing all functions, domain and range, intercepts, asymptotes, Rational Root Theorem, DesCartes’ Rule of Signs, logarithms, binomial theorem, and mathematical induction. Graphing calculators will be used to enhance the investigation of functions.

303100 AP Calculus AB **Prerequisites: “B” average in previous math classes, including Trigonometry and Precalculus and instructor permission.** This college level course primarily concerns an intuitive understanding of Calculus concepts along with experiences related to methods and applications. Students are expected to take the AP exam, which upon successful completion, will gain the student college credit.

303200 AP Calculus BC **Prerequisites: “B” in AB Calculus and instructor permission.** This course covers topics that include trig functions, indeterminate forms, application of integrals and other area of sequences, series and conic sections. Students are expected to take the AP exam, which upon successful completion, will gain the student college credit.

30511X Algebra III (WVU Math 126) **Prerequisites: “C” in Algebra II, 3.0 Cumulative GPA, and successful completion of the WVU Math Placement test. Upon meeting the requirements there is a \$25.00 non-refundable application fee and a \$75.00 tuition fee.** This course facilitated by a BHS math instructor with the WVU professor as the instructor of record is a **DUAL CREDIT** course. There is a series of interactive labs, online quizzes, and four unit tests, with a comprehensive final worth 200 points. The content covered is a thorough review of important Algebra II concepts, with the addition of several pre-calculus topics that include polynomials, rationals, exponentials, logarithms, and systems of equations. Upon successful completion, the student will attain 3 math credit hours for Math126 at WVU. Transferring the credit to other colleges depends on the policy of that institution.

30482X Trigonometry (WVU Math 128) **Prerequisites: WVU Math 126. \$75.00 tuition fee.** This course facilitated by a BHS math instructor with the WVU professor as the instructor of record is a **DUAL CREDIT** course. The entire course is online and covers all trigonometry topics. Upon successful completion, the student will have the choice to accept 3 credit hours for WVU Math 128. Transferring the credit to other colleges depends on the policy of that institution.

After successful completion of both WVU Math courses, students can either accept 3 credit hours for Math 126 and 3 credit hours for WVU Math 128 for a total of 6 hours OR accept 4 credit hours for WVU Math 129 – Pre-Calculus.

ENGLISH

*****English classes may not be taken out of sequence and may only be repeated in the same year IF there is a class available with under 25 students.*****

400901 English 9 Lab This is an elective course for selected students in order to strengthen their reading and writing skills by concentrating on basic grammar, literature, and writing skills. Selection is based on the following criteria: a 'C' or below in English 8, mastery or below on the WESTEST, mastery or below on the Writing Assessment, and a composite score of 13 or below on the ACT Explore.

400900 English 9 This course emphasizes the writing process and English usage along with vocabulary development and reading comprehension. As the foundation for upper grade English courses, English 9 stresses mastery of fundamental skills and improvement of critical thinking skills. ***English 9 may not be taken out of sequence and may only be repeated in the same year IF there is a class available with fewer than 25 students.**

40090H Eng 9 Hon **Prerequisites: A "B" average or above in the 8th grade English, teacher recommendation and writing samples.** Analyzing stories, poetry, drama, and a novel are part of the activities. In addition, this course broadens awareness of relationships between writer and the work. Composition and vocabulary are stressed. Also, this class stresses mastery of fundamental skills and improvement of critical thinking skills. The writing process will culminate in a documented research paper.

401000 English 10 **Prerequisites: English 9.** This course emphasizes both the reading and analysis of prose and the study of writing. Selected poetry and prose will serve as models of effective styles for students to study and imitate. Through practice, revision, and peer editing, students will gain an understanding of the principles of effective writing. Students will compose descriptive, narrative, and five-paragraph essays. Vocabulary study and correct grammar usage are stressed. ***English 10 may not be taken out of sequence and may only be repeated in the same year IF there is a class available with fewer than 25 students.***

40100H Eng 10 Hon **Prerequisites: A "C" or better in Honors English 9 or at least a "B" average in English 9 with required test scores, previous teacher recommendation, and acceptable writing sample.** This course links the connection between reading and writing. Through careful analysis of prose selections, students become aware of how writers use diction, imagery, figures of speech, and sentence structure to contribute to the work's total effect. Appreciation of this expressive language provides an impetus for students to broaden their range of writing and refine their voice and style to become effective writers themselves. The writing process will culminate in a documented persuasive research paper on a current "hot topic".

401100 English 11 **Prerequisites: English 10.** A survey of American Literature is integrated with the improvement of oral language skills, literary analysis skill, and vocabulary development. Writing is done in a variety of forms and modes. Open only to juniors and seniors. ***English 11 may not be taken out of sequence and may only be repeated in the same year IF there is a class available with fewer than 25 students.***

404110/20 AP Eng 11 - Lang & Comp **Prerequisites: A "B" average or better in Honors English 9 and 10 is recommended. An "A" in regular English 9 and 10 is recommended.** Students engage in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Students' writing and reading make them more aware of the interactions among a writer's purposes, audience expectations and subjects as well as the way generic

conventions and the resources of language contribute to effectiveness in writing. Score on the AP exam in May determines the hours of college credit earned.

401200 English 12 **Prerequisites: English 11.** The curriculum of English 12 provides a survey of English literature. College preparatory students are expected to demonstrate control in their ability to read, to react and to write. This course is offered only to seniors. A research project will be required. ***English 12 may not be taken out of sequence.**

404210/20 AP Eng 12 - Lit & Comp **Prerequisites: Honors English 9& 10 recommended. An "A" in English 9, 10, and 11 is recommended.** Students engage in the careful reading and critical analysis of imaginative literature, both prose and poetry. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Score on the AP exam in May determines the hours of college credit earned.

407600 Speech Students acquire a wide scope of speaking fundamentals in this elective, which focuses on communication activities; students practice various kinds of speeches and participate in group discussion and oral interpretation. Students may enter competitions. 10-11-12

402210/20 App. Lit/Cr. Writing Students study the written and spoken works from West Virginia as well as the entire Appalachian region. They also study the culture and heritage of Appalachia. Students will also engage in a variety of writing experiences, including poetry, short story, essay, and play writing. They may also publish their own works.

405100 Journal I **Prerequisite: Competent writing skills and a "B" or better in English are requirements.** This entry level course introduces students to writing, advertising, and yearbook layout and design. Journalism I can be counted as an elective and/or fulfill a concentration.

4051 Journal II **Prerequisite: Students in this course must have an "A" average in Journalism I and teacher approval.** They will help create school publications utilizing design, theme development, editorial skills and business techniques. They will also be doing writing, photo selection and editorial leadership.

4051 Journal III **Prerequisites: An "A" in Journalism II and teacher approval.** Students in this course hold responsible positions while managing and writing for school publications.

4051 Journal IV **Prerequisites: An "A" in Journalism III and teacher approval.** Students hold responsible editorial and management positions with school publications.

4051 Journal V **Prerequisites: An "A" in Journalism IV and permission of the teacher are needed to enter the course.** The students will hold editorial and management positions in school publications.

4051 Journal VI **Prerequisite: An "A" in Journalism V and permission of the teacher are needed to enter the course.** Students in this course will hold editorial and management positions with school publications.

4061 Journalism/Video I **Prerequisite: At least a "B" in Journalism I or Photojournalism.** Students prepare a TV show for school each morning and are involved in other informal

activities with the school and community. Students acquire skills in speaking and writing as well as graphics and photography. This class can fulfill a fine arts requirement or can be substituted for the speech communications connection.

4061 Journalism/Video II **Prerequisites: An "A" in Media I.** Students in this class will add to the responsibilities learned in Media Production I by practicing advanced graphic and editing skills and using highly technical equipment for special projects.

4061 Journalism/Video III **Prerequisites: Students must have completed Media II with an "A".** They will continue with the responsibilities in using advanced graphic and editing skills. They will be using highly technical equipment.

4061 Journalism/Video IV **Prerequisites: Students must have completed Media III with an "A".** These students will have the opportunity to learn management skills in the production of the media class. They will further their knowledge of graphics and editing skills.

4061 Journalism/Video V **Prerequisites: Students must have completed Media IV with an "A".** These students will build on their skills in management, graphics and editing.

4056 Journalism/Photo I **Prerequisites: Student must have access to a 35 mm non-automatic film or digital camera with flash and removable lenses.** Students learn the fundamentals of taking, developing and printing photos. They have the opportunity to take pictures for the school newspaper and yearbook. Open to 9th, 10th and 11th grade students. This class can fulfill the fine arts credit requirement.

4056 Journalism/Photo II **Prerequisite: Students must have a "B" or better in Photo Journalism I.** Students advancing to this level must own or have access to a digital camera with removable lenses. This is for students in 10th, 11th, and 12th grades and teaches advanced photography skills. Students regularly contribute to the newspaper and yearbook and may enter photographic contests. This class can also fulfill the fine arts credit requirement. Students MUST have an "A" to continue to Photo III.

4056 Journalism/Photo III **Prerequisite: Students must have an "A" in Photo Journalism II.** Students advancing to this level must own or have access to a digital camera with removable lenses. They will continue to improve in photographic skills and contribute to school productions. They may also enter photographic contests.

4056 Journalism/Photo IV **Prerequisite: Students must have completed the previous 3 levels of photography with "A"s.** Students advancing to this level must own or have access to a digital camera with removable lenses, This course allows them to continue to improve their photographic skills. They may also enter photographic contests.

4056 Journalism/Photo V **Prerequisite: Students must have completed Photo IV.** Students advancing to this level must own or have access to a digital camera with removable lenses. This course allows them to refine their photographic skills. They will contribute regularly to school publications and may enter photographic contests.

SCIENCE

6009 CATS 9 This class continues the development of foundational knowledge in biology, chemistry, physics and earth science. The subject matter is delivered with an emphasis on

the development of the major science themes of system, changes and models. Students in CATS 9 will expand and deepen their understanding of the major science concepts.

6010 CATS 10 Prerequisite: CATS 9. This class concludes the development of foundational knowledge of chemistry, biology, physics, and earth sciences. The subject matter is delivered with an emphasis on the development of the major science on themes of systems, changes and models. Students in CATS 10 will expand their depth and understanding of major science concepts.

6011 Physical Science **Beginning w/ Class of 2012 - 9th grade requirement. Physical Science is the systematic study of the inorganic world, as distinct from the study of the organic world, which is the province of biological science. Physical science is ordinarily thought of as consisting of four broad areas: astronomy, physics, chemistry, and the Earth sciences. Each of these is in turn divided into fields and subfields.

6102 Adv Biology Prerequisites: CATS 9 and/or CATS 10. This course is designed for students desiring a broader, but more in-depth study of biology. A minimum of 50% of the time will involve active inquires, laboratory investigations and hands-on science.

6021 Biology **Beginning w/ Class of 2012 - 10th grade requirement. Prerequisites: Physical Science. Biology is the scientific study of life. Biology examines the structure, function, growth, origin, evolution, and distribution of living things. It classifies and describes organisms, their functions, how species come into existence, and the interactions they have with each other and with the natural environment. Four unifying principles form the foundation of modern biology: cell theory, evolution, genetics and homeostasis.

6101 Biology -Tech. Concept. Prerequisites: CATS 9 and/or CATS 10. **Beginning w/ Class of 2012 - 10th grade requirement for students not selecting Biology. Prerequisite: Physical Science. This course is designed for students who are interested in the field of technical biology with the scientific knowledge and opportunities to develop the inquiry, problem solving and decision making abilities necessary for future vocations. This course will provide an in-depth study in the chemical nature of life, cellular functions, microbiology, ecology, biotechnology, zoology and botany with application emphasis. It builds on the fundamental concepts developed in investigations and hands-on activities.

6302 Adv Chem I Prerequisite: CATS 9 and Algebra I with at least a "C". Chemistry I (10-12) is the advanced study of matter, its composition and changes. Chemistry builds on the foundation of chemical concepts developed in CATS (7-10). This is designed to prepare a student for college Chemistry and requires a strong math base.

6031 Chemistry **Beginning w/ Class of 2012 - 11th grade requirement. Prerequisite: Physical Science and Biology. Chemistry is the science concerned with the composition, structure, and properties of matter, as well as the changes it undergoes during chemical reactions. Historically, modern chemistry evolved out of alchemy following the chemical revolution (1773). Chemistry is a physical science related to studies of various atoms, molecules, crystals and other aggregates of matter whether in isolation or combination, which incorporates the concepts of energy and entropy in relation to the spontaneity of chemical processes.

6362 Adv Chem II Prerequisite: Algebra II and Chemistry I both with a "C" average or higher. Students will complete the course work started in Chemistry I and will focus on descriptive chemistry and the elements.

6321 AP Chemistry Prerequisites: Chemistry II. This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students,

this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.

6301 Chemistry -Tech. Concept. Prerequisites: Applied Math II, CATS 9 and/or CATS 10. **Beginning w/ Class of 2012 - 11th grade requirement for students not selecting Chemistry.

Prerequisite: Physical Science and Biology or Biology T/C. This course emphasizes real life applications of chemical principles. Mathematical based problem solving is de-emphasized. Emphasis is placed on the important role chemistry plays in a student's personal life, career opportunities, environment, and society. Students will engage in active inquiries, investigations, and hands-on activities. Safety instruction is integrated into all activities.

6304 Adv Physics I Prerequisites: CATS 9 and Trig with a "B" or higher. Physics includes topics in measurement, mechanics, heat theory and sound. Classroom demonstrations and laboratory investigations reinforce the concepts.

6041 Physics **Beginning w/ Class of 2012. Prerequisites: Physical Science and Trig with a "B" or higher. Physics is the science of matter and its motion, as well as space and time — the science that deals with concepts such as force, energy, mass, and charge. Physics is an experimental science; it is the general analysis of nature, conducted in order to understand how the world around us behaves.

6363 Adv Physics II Prerequisite: Physics I with a "C" or higher. It is a continuation of Physics I and will include in-depth study of energy transfer, electricity and magnetism as well as others. It will require students to analyze and apply content in a laboratory setting and to prepare technical reports.

6303 Physics -Tech. Concept. Prerequisites: CATS 9 and/or CATS 10, and Algebra I or permission. This course is designed to prepare students for technical careers. Basic physics principles are dealt with in a thematic approach. Principles are applied to four energy systems: mechanical, fluid, thermal, and electrical that makes up both simple and complex technological devices and equipment. This course also emphasizes the analogies in mechanical, fluid, thermal, and electrical systems.

6201 Adv Env/Earth Sci Prerequisite: CATS 9 and/or CATS 10. This class builds on the fundamental of geology, oceanography, meteorology and astronomy developed in CATS 7-10 in a rigorous and integrated manner with the traditional disciplines of biology, chemistry and physics where appropriate.

6103 Adv Anatomy/Phys Prerequisites: "B" in CATS 9 or "C" in Adv. Bio. This course deals with the structure and function of the human body. Focus will be at both micro and macro levels. This course will be appropriate for college bound students as well as those choosing a health services cluster.

6165 Adv Anatomy/Phys II Prerequisites: "B" in Anatomy I is highly recommended. This course completes the study in Anatomy I with a more in- depth study of individual organs and their physiology.

6163 Botany Prerequisites: "C" in CATS 9 and/or CATS10 or teacher recommendation. Students explore the structures, processes and functions of plants in this course.

6162 Microbiology Prerequisites: Adv. Bio. with a "B" or teacher permission. Students with an interest in health or natural sciences should take this field. Students will learn to culture and identify infectious bacteria and study methods of infection control.

6164 Zoology **Prerequisites: CATS 9 with a ‘B’ or teacher approval.** This course is a comprehensive study of the form and function of various representatives of the animal kingdom and combines with animal physiology to give a complete study.

SOCIAL STUDIES

7010 World History ****9th grade requirement beginning w/ Class of 2012.**
This study of the world emphasizes the historic, economic, geographical, political and social structure of various cultural regions from the dawn of civilization to the interdependent world of the 20th and 21st centuries. Map skills and critical will be taught

7009 US History ****10th grade requirement beginning w/ Class of 2012.**
This class follows the evaluation of the Constitution as a living document and role of the participatory democracy in the development of a technological society. This study is an examination era to the evolution of the political and economic influence in the world.

7046 AP US History **Prerequisites: One unit of history & teacher approval.** The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials- their relevance to a given interpretive problem, their reliability, and their importance- and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

7011 20th / 21st Cent **Prerequisites: U.S.I and World History. **11th grade requirement beginning w/ Class of 2012.** This course identifies and studies the interactions of geographic, political, economic, and historical factors. This will include the changing nature of societies and interdependency. Students will contrast and evaluate past and present and hypothesis about future problems and solutions.

7031 Civics/Gov **Prerequisites: World History, US History, and 20th/21st Century History. **12th grade requirement beginning w/ Class of 2009.** This course for 12th grade is essential for active participation by informed citizens. This course will emphasize a study of government and individual rights and responsibilities. Examination of rules and laws and the need for authority is crucial to maintaining a safe society for diverse individuals and groups. Civic understanding increases as students develop the skills to make informed decisions, to resolve conflicts peacefully, to articulate and defend positions, and to engage in the civic and political life of their communities.

7109 Law **Prerequisites: 20/21st Century studies.** With law educations, students realize that law is important and relevant. This program covers the basic elements of civil and criminal law in a lively and thorough fashion that always keeps the student 's point of view in mind. This course does not meet the social studies requirements for graduation.

7341 Sociology I This course introduces students to the study of human behavior in society. This course provides an overview, development and application of Sociological concepts and perspectives concerning human groups; includes attention to socialization, culture, organization, stratification, and societies. Consideration of fundamental concepts and research methodology.

7033 **Geography** Open to students grades 9 - 12. An in-depth study of countries, oceans, continents, mountain ranges, cultures and people of our world. It does not meet the social studies requirements for graduation.

7032 **Economics** Understanding economics is essential so students will know that most decisions have economic consequences. As resources become scarce, as the economic environment changes as the economic impact of decisions become more immediate, students must know how to use economic analysis to solve the complex problems they face now and in the future.

7321 **Psychology** Students of psychology explore human behavior, what people do, what they think and why that act as they do. This is an elective credit, which does not meet the social studies requirements for graduation.

7047 **AP Psychology** AP Psychology is a college based course designed to examine, identify, and analyze the scientific study of behavior and mental processes of human beings/other animals. Students will be exposed to psychological facts, principles, experimentations, and phenomena associated with each field/sub-field within psychology. Students will also examine important Psychologists and their defining achievements within the realm of their psychological field.

BUSINESS/MARKETING/COMPUTERS

1401 **Account Prin I** Students acquire fundamental accounting concepts, principles and controls with emphasis on checking accuracy, promoting honesty, and encouraging efficiency and speed in processing data. Open to grades 10-12.

1403 **Account Prin II** **Prerequisite: Accounting I.** Advanced Accounting expands principles and procedures to include corporate accounting and decisions making used on financial reports. It provides preparation for employment or background for the study of accounting or accounting-related fields. This course can be taught by using computers.

0413 **Intro to Bus & Mktg.** Open to students in grades 10 - 12. This course is an introduction course for Business/Marketing majors that explores careers in business and marketing, the role of marketing in today's business world and a broad overview of economics. This course provides a background for the development and operation of a business and the application of specific marketing skills.

1411 **Bus Comp App I** This study is designed to provide the learner with the opportunity to understand and apply integrated software to basic business applications. The students will be introduced to database and word processing with an emphasis on keyboarding skills.

1413 **Bus Comp App II** **Prerequisite: Business Computer Application I.** This area of study is designed to develop skills appropriate to an area of specialization in an information processing system. They will be proficient in database, word processing, spreadsheets and presentation/desktop publishing.

1449 **Office Management** **Prerequisite: Business Computer Applications I.** This is designed to aid students in becoming skillful in the operation of an office. Areas include: employability skills,

processing mail, communication, financial records, computing and accounting data skills, business correspondence, office equipment management skills, and office support activities. Only students taking this course will be considered as teacher, office, and counselor assistants.

0422 Market Prin I This course is designed to prepare Business/Marketing majors students for careers in marketing management or merchandising. Content: focus on marketing, economics, distribution, selling, advertising and business ownership. Students may opt to take the work experience portion. Membership in DECA is part of the marketing class. Open to 11-12 grade only.

0425 Mark Prin II **Prerequisite: Successful completion of Marketing I.** Students will be further prepared for careers in marketing, trend forecasting, management and merchandising. Students will do marketing research projects, work on human relation skills, advertising, pricing distribution and product planning. Work experience is optional.

1445 Man and Entrep This course provides a background for the development and operation of a business starting with the role of the entrepreneur in our economy to development of a business plan and the application of specific marketing skills and concepts within the business environment. This course also explores the planning, organizing and controlling of a business.

0437 Tours & Hosp This course will provide information and activities related to the tourism industry in West Virginia. Students will examine the heritage, culture and geography of the state in terms of attracting visitors. They will also explore careers and economic benefits of tourism. Open to students in grades 10 - 12.

0451 Comm for the Global Econ Global communication is the process of transmitting and receiving information on a world-wide scale. Until recent times it was difficult to communicate with other countries, with factors such as distance, time, and language barriers being major restrictions, however with the evolution of technology, global communication has become increasingly easy, faster, clearer and more effective. Global markets now offer the ability to produce cheaper products, access to consumers in foreign countries, new sources of finance and income, new sources of technology and access to a world of people with know-how.

0428 Work Exp - 3 hrs **Prerequisites: Marketing I and II.** This is a work experience-training supplement to the classroom instruction for Business/Marketing majors. Students must be employed in a teacher-approved job for a minimum of 15 hours a week. Varying amounts of work hours will result in different work credits given. Only seniors having selected the **Management** or **Tourism/Hospitality** cluster will be permitted must be enrolled in Marketing. This could possible count as the 30 hours work-based experience for graduation **IF the work site and job match the student's career major.**

2826 Comp Information This course will introduce computer concepts and terminology. Students will be introduced to word processing, spreadsheets, and presentation software. In addition, students will receive internet training and utilize the internet for classroom assignments.

2831 Comp Sci/ Prog I **Prerequisite: Algebra I & Geometry.** The emphasis in this course is on logical thinking and problem solving, by writing programs in QBasic and Visual Basic to solve a variety of math problems, students will enhance their problem solving skills and mathematical concepts.

2832 Comp Sci/ Prog II **Prerequisite: Computer Prog. I.** The emphasis on this course is solving a variety of mathematical problems using the C++ language.

SPECIAL EDUCATION

English-IND English for special students whose IEP specifies direct services in a special education environment. It will cover WV Content Standards and Objectives for **9th grade English** and address the individual needs as prescribed by the students IEP's.

English-IND English for special students whose IEP specifies direct services in a special education environment. It will cover WV Content Standards and Objectives for **10th grade English** and address the individual needs as prescribed by the students IEP's.

English-IND English for special students whose IEP specifies direct services in a special education environment.. It will cover WV Content Standards and Objectives for **11th grade English** and address the individual needs as prescribed by the students IEP's.

English-IND English for special students whose IEP specifies direct services in a special education environment. It will cover WV Content Standards and Objectives for **12th grade English** and address the individual needs as prescribed by the students IEP's.

Math-IND Math for special students with IEP's. It will cover Alternate Assessment Math Content Standards and Objectives. This will prepare them for the next level of math and meet the individual students needs as prescribed on their IEP.

778900 Job Explore **This course is restricted to students with IEP's.** They will work under the supervision of a Job Coach. They will receive on the job training to develop the skills and attitudes required to keep a job and help them transition from school to post-secondary opportunities. This can be used to meet their thirty-hour (30) work base requirement.

7653 Study Skills **This course is restricted to students with an IEP.** Study Skills provides the students with learning strategies for objective and subjective tests, outlining, memorizing, using and making study guides, reading comprehension, and writing skills. Activities are designed to help them make decisions about health, careers, finances, and personal choices. It will meet the individual needs as prescribed on their IEP.

774100 Life Skills **Designed for students with IEP's.** It will cover WV Content Standards and Objectives. Students study real life situations to help them develop skills needed to live independently. Activities are designed to help them make decisions about health, careers, finances and personal choices. It will meet the individual needs as prescribed on their IEP.

7605 Academic Life Skills **Designed for students with IEP's.** Academic skill development for students whose I.E.P. specifies direct services in a special education environment. It will cover WV alternate academic standard in mathematics and reading/language arts for students with the most significant cognitive disabilities and is inclusive of existing content standards, extended standards, and performance descriptors as required by Policy 2510.

FINE/PERFORMING ARTS

3401 Dance I This course is based on identifying and demonstrating movement elements and skills in performing dance. Students will also develop an understanding of choreographic principles, processes, and structures. Students will also learn that dance is a way to create and communicate meaning. Students will demonstrate and understand dance in various cultures and historical periods along with the healthy lifestyles necessary for dancers.

3402 Dance II **Prerequisite: Dance I.** These students will employ all concepts learned in Dance I with an emphasis on improving style and technique, creating extended

choreography, analyzing and critiquing professional pieces and performers as well as continuing to study healthy lifestyle choices, cultural and historical influences and more complicated steps.

3431 Dance Ensemble **Prerequisite: Audition.** This is an advanced dance ensemble that will be committed to improving dance skills. The group will participate in workshops and classes in and around the area and will also participate in the student showcases at the WV Secondary Dance Alliance Conference and the WV Dance Festival.

3611 Band I **Prerequisite: Middle school band participation or private lessons.** This course is designed for incoming freshmen band students or students who are new to the band program. Students enrolled in concert band will be provided the opportunity to examine, rehearse, and perform various styles of marching band and concert band music. The students in this course will continue to refine their playing skills and study various composers, compositions, styles, and ornamentation. Emphasis will be on learning the technique involved in playing the individual's instrument. Rehearsals and performances will be scheduled outside of the regular school day as part of the curriculum. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. This ensemble participates in field show performances, parades and various other competitions, festivals, and concerts throughout the year. Students may participate in Solo and Ensemble Festival as well as various local and national honor bands. Students enrolled in Band I are eligible to audition for the West Virginia All-State Band.

3612/3/4 Band II-IV **Prerequisite: Band I or play traditional wind instrument at an intermediate level.** Students enrolled in Band II, III, and IV will be provided the opportunity to examine, rehearse, and perform various styles of marching band and concert band music. The students in this course will continue to refine their playing skills and study various composers, compositions, styles, and ornamentation. Emphasis will be on learning the technique involved in playing the individual's instrument. Rehearsals and performances will be scheduled outside of the regular school day as part of the curriculum. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. This ensemble participates in field show performances, parades and various other competitions, festivals, and concerts throughout the year. Students may participate in Solo and Ensemble Festival as well as various local and national honor bands. Students enrolled in Band II, III, and IV are eligible to audition for the West Virginia All-State Band.

3742 Jazz Ensemble **Prerequisites: Previous instrumental experience on a traditional jazz instrument. Successfully complete an audition.** Jazz Ensemble is a performance-oriented course, which will give students the opportunity to express themselves freely within the guidelines of the jazz idiom. The course will include improving listening and playing skills over the entire range of jazz styles from early Dixieland and Blues to contemporary Rock and Fusion. Rehearsals and performances will be scheduled outside of the regular school day as part of the curriculum. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. This class is available to students in grades 9, 10, 11, and 12.

3743 Percussion Ensemble **Prerequisite: Previous instrumental experience.** This class is for percussion students. Students will learn the different types of playing techniques for percussion instruments including marching, concert, and jazz percussion. Students will perform in Marching Band, Concert Band, and/or Symphonic Band. Performance is part of the curriculum. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. This ensemble participates in field show performances, parades, and various competitions, festivals, and concerts throughout the year. Students may participate in Solo and Ensemble Festival, as well as various local and national honor bands. Students enrolled in Percussion Ensemble (10-12) are eligible to audition for the West Virginia All-State Band. This class is available to students in grades 9, 10, 11, and 12.

3731 Strings **Prerequisite: Middle School Orchestra or private lessons. (violin, viola, cello, and bass only) Other instrumentalists may join with permission of the director.** Students practice various techniques and styles in orchestral literature enabling them to develop musical and

technical skills. They may audition for All-State Orchestra. Rehearsals and performances will be scheduled outside of the regular school day as part of the curriculum. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. This class is available to students in grades 9, 10, 11, and 12.

3757 Music Theory **Prerequisite: Previous vocal and/or instrumental experience.** Students will need to have basic music reading skills when they enroll in this class. Students will learn fundamental terminology and notation of intervals, scales, triads, chords, key signatures, rhythm and meter, transposition, melody, harmony, tonality, texture, small and large forms. Students will also learn to recognize particular compositional processes such as harmonic functions, cadence or scale types, motive transformation, and sequential patterns. This class is available to students in grades 10-12.

3761 Orchestra

3751 Music Tech and Comp **Prerequisite: Successful completion of Music Theory.** This course provides a computer-based study of elementary forms and traditional approaches to the organization of melody, harmony, rhythm, etc. in musical composition. Emphasis will be placed on using music notation software and electronic instruments to create new works. Scoring, arranging, and composing for various types of ensembles will be required. Students will become familiar with the fundamentals of MIDI (Musical Instruments Digital Interface) as it applies to music composition. Students will analyze music that uses recent technological advances and will apply it to their own compositions and arrangements. Each student will develop a semester project that will be presented at the end of the term. This class is available to students in grades 10-12.

3741 Instrumental Ensemble This course is intended to develop techniques for playing brass, woodwind, and percussion instruments in small ensemble groups. Student will also have the opportunity and instruction to prepare for All-State Band, etc.

3620 Chorus I Students in Chorus I will learn the basics of choral singing; they will learn proper vocal techniques, how to breathe correctly when singing, and will learn to successfully sing music in two and three part choral settings. No previous choral experience is necessary. Participation in the All-County Chorus Concert and the BHS Choral Christmas Concert will be required of all Chorus I students.

3621 Chorus II **Prerequisite: Chorus I or Show Choir.** Students in Chorus II will continue working on good vocal technique and developing choral singing skills. These students will also be expected to provide leadership and assistance to Chorus I students. Participation in the All-County Chorus Concert and the BHS Choral Christmas Concert is required of all Chorus II students.

3736 Show Choir **Prerequisite: Audition.** Students must pass an audition to enroll in Show Choir. Show Choir members combine the arts of singing and dancing. This is a challenging but fun way to entertain a variety of audiences. Students in Show Choir will be expected to attend Show Choir Camp at the end of August where they will learn most of the choreography for the music that will be performed during the school year. Weekly rehearsals will be determined by students' schedules. Members are expected to practice individually and in extra rehearsals or sectionals. Private instruction is highly encouraged. There will be several performances that will be required of Show Choir members throughout the school year.

3681 Piano I This self-paced course will provide beginners with a strong background in reading music through the early intermediate level, basic music theory, and correct piano technique. More advanced piano students will learn music theory in more detail, work on scales and arpeggios, and learn to play various styles of piano music from classical to ragtime and popular music. Traditional teaching methods are used in this class, as well as computer-assisted teaching.

3682 Piano II **Prerequisite: Piano I.** Students in Piano II will continue their piano studies at the level completed in Piano I. Piano II will enable students to become more proficient at

piano playing, and they will learn more about music theory and technique at the piano.

3211 Art I This is an entry level course designed to introduce the student to the *Elements of Art*, the *Principles of Design*, the process of *critique* and various media available to the artist such as: pencil, pen & ink, pastels, acrylic paints and watercolor.

3212 Art II **Prerequisite: Art I.** This course will expand on the lessons learned in Art I. The student will create finished works of art using the *Elements of Art* and the *Principles of Design*. Students will be encouraged to create works for display and competition.

3213 Art III **Prerequisites: Art I and II.** Students will expand upon previous skills and learning. Students will be required to write proposals, critiques and project assessments of their work. The student will learn how to present a portfolio and presentation on works completed.

3214 Art IV **Prerequisites: Art I, II, and III.** This course is designed to aide the student in preparing a college or technological grade portfolio. The student will focus on mastering techniques and media while developing a personal artistic style.

3232 Art History This is a course for students needing an Art Credit with little or no artistic experience. Activities and instruction will explore the Styles of Art, Art Periods, and the Historical Importance of Art. Students will be able to: 1) Analyze and discuss various works of art using an *art vocabulary* 2) Understand the *Elements of Art* and the *Principles of Design* 3) Recognize and understand the difference between the various styles of Art Movements and their influence on history. The student will gain a broad fundamental knowledge of *Art*, *Art Theory*, and the ability of *Intelligent Discussion*.

3313 Computer Assisted Art **Prerequisites: Basic Computer Skills**
This is an entry level *Illustration* course that introduces the student to various techniques of creating art with the computer by use of such programs as Microsoft Word, Paint, Adobe Illustrator and various other software available. The class will involve both textbook and hands on experience. Students will develop skills connected to quickly produce flexible graphics for print, video, the web, and mobile devices.

3746 Music Appreciation/History **Prerequisite: None.** This course is designed for students with little or no music performance experience. Activities and instruction will explore the nature of music and major musical style periods. Students will be able to (1) listen to, analyze, and use a music vocabulary, discuss music of a wide variety of styles and periods including modern music; (2) understand the elements of music including melody, rhythm, harmony, form, and texture; and (3) analyze and evaluate new musical listening experiences based on critical listening skills. The course will provide the student with a broad fundamental basis for further music study and/or the ability to make music an understood and appreciated part of life.

3726 Guitar 1 **Prerequisite: None.** Beginning Guitar is designed to offer basic, but intensive, training in the playing of the standard six-string acoustic guitar. The student will learn to read music notation, perform basic chord progressions, and play exercises and short pieces alone and in ensembles. Listening to guitar music and discussing the guitar's role in music of the past and present are also components of the course. Although all types of music will be heard and played, this course is not a "rock and roll" guitar class. Students will discover, however, that the universal musical concepts they learn apply to popular styles as well. This class will offer both group and individualized instruction and assessment including both supervised and private practice.

3801 Theater I Upon successful completion of Theatre I, students will be able to adapt play texts; identify contemporary styles of theatre/drama and depict characters in them. Students will identify basic properties of technical theatre and demonstrate technical knowledge and skills. They will experience multiple interpretations for production ideas and research how the non-dramatic art forms enhance a theatre production. Other areas studied include a variety of cultures and historical periods related to theatre.

FOREIGN LANGUAGE

562100 French I The first in a series of French courses develops understanding and facility in speaking, reading, and writing the language. Students learn the basic sounds while practicing vocabulary and using simple sentences in conversational situations. They gain a basic knowledge of contemporary Franco phone culture as they participate in learning activities.

562200 French II **Prerequisites: Student must have a "C" average in French I or teacher approval.** Students expand their knowledge of the French language and Franco phone culture by refining pronunciation and understanding more complex grammatical structures. Understanding, speaking, reading and writing the language are the major course objectives.

562300 French III **Prerequisites: Students must have a "C" average in French II or teacher approval.** Students continue to develop communication skills with increased emphasis on creative expression. They explore classic and modern Franco phone literature. This can count as a career major unit for speech.

562400 French IV **Prerequisites: Students must have a "B" in French III or teacher approval.** French is the primary means of communication as students participate in an in-depth study of Franco phone history, art, and literature with an emphasis on the classics. This can count as a career major unit for speech or humanities.

562500 French V **Prerequisites: Students must have a "B" average in French IV.** Students in French V receive reinforcement in all aspects of the language by reading, speaking and writing with an emphasis on interpreting contemporary selections. This can count as a career major unit for speech or humanities.

566100 Spanish I The first in a series of Spanish courses develops understanding and facility in speaking, reading, and writing the language. Students learn the basic sounds while practicing vocabulary and using simple sentences in conversational situations. They gain a basic knowledge of contemporary Hispanic culture as they participate in learning activities.

566200 Spanish II **Prerequisite: Student must have a "C" average in Spanish I or teacher approval.** Students expand their knowledge of the Spanish language and Hispanic culture by refining pronunciation and understanding more complex grammatical structures. Understanding, speaking, reading and writing the language are the major course objectives.

566300 Spanish III **Prerequisite: Students must have a "C" average in Spanish II or teacher approval.** Students continue to develop communication skills with increased emphasis on creative expression. They explore classic and modern Hispanic literature. This can count as a career major unit for speech.

566400 Spanish IV **Prerequisite: Students must have a "B" in Spanish III or teacher approval.** Spanish is the primary means of communication as students participate in an in-depth study of Hispanic history, art, and literature with an emphasis on the classics. This can count as a career major unit for speech or humanities.

566500 Spanish V **Prerequisite: Students must have a "B" average in Spanish IV.** Students in Spanish V receive reinforcement in all aspects of the language by reading, speaking and writing with an emphasis on interpreting contemporary selections. This can count as a career major unit for speech or humanities.

5681 Italian I Prerequisite: Two years of another Foreign Language with a minimum "C" average. Students will gain an understanding and facility in speaking, reading, and writing the language. Students learn the basic sounds while practicing vocabulary and using simple sentences. They gain a basic knowledge of contemporary Italian culture as they participate in learning activities.

561100 Chinese I Prerequisite: Above Mastery or Distinguished on the most recent Reading/Language Arts portion of WESTEST. The first in a series of Chinese courses develops understanding and facility in speaking, reading, and writing the language. Students learn the basic sounds while practicing vocabulary and using simple sentences in conversational situations. They gain a basic knowledge of contemporary Chinese culture as they participate in learning activities.

561200 Chinese II Prerequisite: Student must have a "C" average in Chinese I or teacher approval. Students expand their knowledge of the Chinese language and culture by refining pronunciation and understanding more complex grammatical structures. Understanding, speaking, reading and writing the language are the major course objectives.

CONSUMER/TECHNICAL ED

0902 Child Dev Open to students grades 10 - 12. Students in child development class examine behavior patterns from prenatal existence through infancy and adolescence. This course highlights contemporary issues affecting parents and children.

0951 Food Preparation Open to students Grades 10 -12. This course examines how food meets the body's nutritional requirements for good health. Students learn food selection, storage and preparation techniques.

2439 Fund. of Drafting This course is first in the series of drafting courses and will introduce students to the basic fundamentals of drafting and geometric construction. Students will become familiar with drafting equipment and methodology used in industry. This course will provide basic understanding of drafting techniques necessary to allow students to progress to CAD.

2436 Found. Engineering Prerequisite: Fundamentals of Drafting. This introductory course emphasizes hands-on activities and the development of mental processes such as creative thinking, decision-making, critical thinking and problem solving. It also focuses on the use of technological processes Base of knowledge, materials and designs to solve every day problems to be related to technology.

1727 Drafting Techniques Prerequisite: Fundamentals of Drafting and Found. Engineering. This course will introduce students to techniques used in advanced orthographic projection, including dimensioning, sectioning, auxiliary views, revolutions, pattern development and advanced CAD.

2427 Drafting Spec - Arch Draw Prerequisite: Drafting Techniques. This introduction to architectural drafting emphasis the design process, area planning, and basic plans including floor plans, elevations, perspective drawings and electrical plans, one of which must be done on the computer using CAD. Open to grades 11 - 12.

2430 Drafting Spec - Mech Draw Prerequisite: Drafting Techniques. In this introductory drafting course, students learn the correct use of equipment and basic drawing skills. They practice lettering, sketching, orthographic projections, isometric drawings and geometric constructions. Open to all students grades 1 – 12.

2424 Construction I Students gain an understanding of the technology of light and heavy construction as they use construction tools and processes and learn about careers. This class covers both construction I and II to allow the students to complete projects. Open to students grades 9-12.

2421 Communications I This course is combined with manufacturing technology. In the course, students work with the fundamentals involved in visual, acoustical, telecommunication and computer concepts as well as design and engineer a product, finance its production, manufacture it and then market it in the school or community. Open to all students Grades 9 - 12.

2442 Manufacturing I Manufacturing systems will provide the students with many opportunities to study the basic elements of manufacturing. Students will explore a variety of materials and processing techniques common to manufacturing and apply this knowledge to the development and operation of a student manufacturing enterprise.

2448 Trans I Students study all areas of transportation with hands-on experience with power plants used to move vehicles. They study transportation trends and review the influence of these trends on society. Open to all students grades 9 - 12.

7665 Work Base Exp **Prerequisites: Seniors who must have a 3.0 cumulative grade point average and teacher recommendation.** Students will not be allowed to take more than one work base course a year. This course will allow students to explore their anticipated career choice. Student projects and a pre-determined amount of hands-on work related experiences are required. Students wanting to be assigned to a teacher in their related career will receive the 30 hour work base credit after completion of the semester.

2221 Careers in Education 1: Teacher Cadet **Prerequisites: Juniors and Seniors who have selected Education as their Career Major.** Teacher Cadet student will be introduced to the history, development, organization and practices of preschool, elementary and secondary education. In addition to classroom training, students will participate in field experiences at local elementary, middle and high schools. Students also gain the professional or skilled knowledge and skills necessary in beginning a career in the education profession. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction related to the education profession. Students are encouraged to become active members of a student organization such as Future Educators of America. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and 21st Century Learning Skills and Technology Tools. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology, tools, and content standards and objectives. Prerequisite overall GPA: 3.

130200 Careers in Education 2: Human Growth and Development **Prerequisite: Teacher Cadet I.** The Careers in Education 2 student will focus on the various physical, cognitive, social, emotional and moral development, environments and social institutions, family life, demographics and culture influencing human growth and development. This course also provides information and activities for guiding behavior and meeting the needs of special age groups. Students will utilize problem solving techniques and participate in hands-on activities. Teachers should provide each student with real world learning opportunities and instruction related to education careers. Students are encouraged to become active members of an appropriate student organization, such as Future Educators of America. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and 21st Century Learning Skills and Technology Tools. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and content standards and objectives. Prerequisite: Careers in Education Teacher Cadet I with an average of B and an overall GPA of a 3.

7675 Lib. Asst. **A non-credit course limited to juniors and seniors who have a cumulative 3.0 grade point average and are approved by the librarian.** Students will learn to use the computer in library. This could possible count as the 30 hours work-based experience for graduation **IF the**

work site and job match the student's career major.

7675 Teacher/Guidance/Office Asst. Prerequisite: Office Management. This non-credit course is limited to Seniors who have a 3.0 GPA. Pre-requisite could be waived if student is in the Human Services cluster and assigned to the appropriate discipline. This can also be used as 30 hrs work –based experience for graduation.

Dr. Ed/HEALTH/PE

6609 Phys Ed In physical education, students acquire various skill levels in group and lifetime activities intended to develop healthy, fit adults by participating in individual and team sports and in exercises. Open to freshman only, unless a senior needs PE for graduation.

6909 Health Health education focuses on personal health and fitness, nutrition, drug abuse. Family and social health, safety and emergency care, disease prevention and treatment and community health.

681101/02 Driver Education Prerequisite: First semester students must be 16 on or before the 15th of January. Second semester students must be 16 on or before the 5th of June. This course will meet state requirements for driving. Driver Education will build a solid foundation of knowledge and practice for the students by teaching laws of the road with emphasis on the effects of alcohol and drugs. Students drive in county, city, interstate, and residential areas. IPDE processes will be emphasized.

The following courses are offered at UTC:

ABT I Autobody I This program is designed to provide instruction in repair and replacement of body parts in automobiles. The student is instructed in certified program using National Automotive Technicians Foundation Guidelines. Open to 11th and 12th grade students.

ABT II Autobody II Continues the principles taught in Auto Body I and the student is prepared for ASE certification in auto body repair. Offered to 12th grade students.

AT I Automotiv I AM Program - Provides basic instruction in automotive technology and related instruction. Hands on training in areas covered by Automotive Services Excellence Exam. Taught at UTC. Courses open to 11th and 12th graders.

AT II Automotiv II PM Program - Continues Automotive I training and provides instruction, which enables the student to obtain employment in automotive services or enter further specialized training opportunities. (Open to 12th Graders.)

AV I Aviation I PM Program - This program takes the junior and senior years to complete the courses. Students must begin in their junior year. The first year covers the first part of the power plant license. Students are not certified until completion of their senior year and the FTA Power Plant Test. Open to 11th grade students.

AV II Aviation II AM Program - Completion of training to receive the FAA Power Plant Certification. This test is given free to the students. The students may opt to enter the work field directly or go to Pittsburgh Institute of Aeronautics for their Air Frame license and their associate degree or attend an accredited college. Must have completed Aviation I at UTC.

CAD I CAD I This program consists of three units of study and includes training in drafting procedures, methods and practices. Machine Drafting is the first half of the two-year program. Computer Aided Drafting is a large part of the training. Open to 11th and 12th grade students.

CAD II CAD II During the second year, students study architectural procedures, methods and practices. Again, computer assisted drafting is provided. Open to 12th grade students who have completed CAD I at UTC.

CISCO Networking/Web Design PM Program - The networking segment of the academy consists of four sequential semesters leading toward a profession in computer networking. Students may receive 14 semester hours of undergraduate college credit. These academy courses also prepare students to take the globally recognized Cisco Certified Networking Associate exam. The academy in conjunction with other leading technology companies, such as Adobe Photoshop, Illustrator and other programs, and UNIX and LINUX operating systems used extensively in the Internet. Basic instruction is provided online, through the Internet. The hands-on skills are taught and practiced in the classroom, and include cabling projects, router programming, network design and troubleshooting. The sponsored curricula are integrated into the academy schedule at UTC, providing a broad background for entry into the high tech world of computers networking, operating systems, and web design.

Computer Maintenance & Repair/A+ Serv Tech 2 yr. PM Program – This program will provide students with the necessary skills to detect and correct hardware and software faults. A+ provides the knowledge and skills needed to identify, install, configure and upgrade microcomputer modeling and peripherals, safety and preventative maintenance procedures. Also included will be specific terminology, categories and principles of motherboard, procedures and memory in microcomputer systems. All students will have the opportunity to build a computer or a computer related project. Diagnosing and troubleshooting common model and system malfunctions and networking concepts will be included.

CLINME Clin Med Asst This program offers a versatile career choice. It provides a current knowledge base, task requirements and skill development procedures that are needed to qualify for entry level employment in a physician's office, medical clinic or a health care facility. Hands on training takes place during the extern ship. Open to 11th and 12th grade students.

COSMET Cosmetology This class is for seniors who have reached their 17th birthday by October 1st of their senior year. Students get 500 hours toward the 2000 hours post secondary course. The state of West Virginia requires 2000 hours of instruction and successful completion of the State Board of Examination for the cosmetologist to become licensed.

E I Elec Tech I AM Program - This provides a study of branch circuits, switching arrangements, electric heat and national Electric Code requirement for residential structures. Related theory and math are included. Open to 11th grade students at UTC.

E II Elec Tech II AM Program During the second year, relay logic, motor control and installation and an introduction to commercial/industrial wiring are included. Students will have the opportunity to gain the skills needed to take the State Fire Marshall Licensing test or for entry into respected trades or continuing education. Open to 12th grade students at UTC.

ETI Electroni I AM Program – Instruction of the field of industrial electronics starts with the basic theory and continues through a comprehensive study of electronic circuits. The graduating technician has the skills needed to enter the diversified fields of industrial electronics at entry level.

ET II Electroni II AM Program - Continuation of Electronics I, the student studies electronic devices, analog circuits and digital circuits and has the skills needed for entry-level positions in the diversified field of industrial electronics. Open to 12th grade students.

EMSI Emergency Serv Ops This program is a yearlong program in which students receive classroom instruction and practice fire fighting skills under controlled conditions. Emergency Medical Technician/Basic (EMT/B) is also an integral part of this program. Students learn emergency diagnosis, treatment, and care for injuries to all parts of the body.

GBC I Gen Bldg I This program consists of projects involving the basic frame, exterior and interior trim work, site lay-out for residential buildings, blueprint reading and the use of computers. Open to 11th grade students.

GBC II Gen Bldg II This second year covers advanced work in building preparation, foundation and framing, finishing work and plumbing wiring. Open to 12th graders.

GCP I Graphic C/P AM Program - The first of the two year program includes copy preparation, desktop publishing, photo-offset camera work, film masking and darkroom procedure. Open to 11th grade students.

GCP II Graphic C/P* AM Program - Students learn principles of photography, building process, paper handling, job estimation and sales and management skills. This is the second of a two-year program. Open to 12th grade students.

HA I Health Asst This one year program will prepare individuals for a health career. Students learn anatomy and terminology as well as the necessary skills to give personal care to individuals in a nursing home or in hospital settings. The students are eligible to take the WV Nursing, Assistant Exam at the end of the year. Open to 11th and 12th grade students.

MAS I Masonry I Masonry includes the use of masonry tools and equipment, construction materials, masonry project exercises and masonry cleaning. This is the first of the two-year course. Open to 11th grade students.

MAS II Masonry II This course includes advanced masonry skills needed for the forming and pouring of concrete for walks, pads, side layout estimation and some on-tide job training experiences. Open to seniors only.

MTT I Mach Tool I AM Program - This program is designed to provide education in engine design and function. It will include the study of engine components such as: piston design and displacement, cylinder head, valve sizing and function, induction systems, ignition systems, cooling and lubricating systems, cam shaft design and purpose, engine repair and dismantle repair and rebuild. This program will get the student moving toward high performance engine design and assembly. **Open to Juniors ONLY.**

MTT II Mach Tool II PM Program - This is the second year of the program. This part allows students to draw blueprints and make projects by reading the blueprints. The student learns advanced machinery technology and machine skills.

PROSTA Prostart I/II **PSI AM Program/PSII PM Program** - Offered UTC, this course is a two year course which prepares the students for either hotel management or restaurant management or going on to a technical school or going on to college in the field of hotel/motel management or as a chef..

WEL I Welding I **AM Program** - The first of the two year program is designed to provide training to develop skills in basic oxyacetylene welding and cutting, basic and hel-arc welding. Metallurgy and non-destructive testing are also included. **Open to Juniors.**

WEL II Welding II **PM Program** - The second year has the students working in advanced welding techniques, advanced metallurgy and blueprint reading. **Open to Seniors.**

*****Please see complete UTC course offerings guide for more detailed information.*****