

Bradley Central High School

**2010-2011
Course Catalog**

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ENGLISH

E100 English I

English I is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and literature. Students will take the English I EOC exam at the end of the course.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: Recommended for 9th Grade

E101 English I Honors

English I Honors is more advanced and rigorous than the regular English I curriculum. It is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and literature. Students will take the English I EOC exam at the end of the course. This course is required for Bear Scholars.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: Recommended for 9th Grade, Teacher Recommendation

E102 English II

E102- English II is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and literature. Students will take the English II EOC/AYP exam at the end of the course.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English I Recommended

E104 English II Honors

English II Honors is more advanced and rigorous than the regular English I curriculum. It is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and world literature. Students will take the English II EOC/AYP exam at the end of the course. This course is required for Bear Scholars.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English I Recommended, Teacher Recommendation

E105 English III

English III is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and American literature. Students will take the TCAP Writing Assessment in February. The ACT Exam is now a required exam given to all juniors in the spring.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English II Recommended

E107 English III Honors

English III Honors is more advanced and rigorous than the regular English III curriculum. It is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and American literature. Students will take the TCAP Writing Assessment in February. The ACT Exam is now a required exam given to all juniors in the spring. This course is required for Bear Scholars.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English II Recommended, Teacher Recommendation

E108 English IV

English IV is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and British literature.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English III Recommended

E111 English 12 Honors

English IV Honors is more advanced and rigorous than the regular English IV curriculum. It is composed of the following content standards: language, communication (listening and speaking), writing, research, logic, informational text, media, and British literature. This course is required for Bear Scholars.

Credit(s): 1

Course Fee: \$2.00 plus possible cost of paperback books Pre-Requisites: English III Recommended, Teacher Recommendation

English Electives

E201 Creative Writing

Creative Writing is for students who enjoy writing. This is an exciting course of discovery and growth. Students write daily journal entries and experiment with poetry, short stories, essays, and plays. Vocabulary activities and tests are also used.

Credit(s): 1

Course Fee: \$2.00 plus cost of workbook Pre-Requisites: Recommended for 10th – 12th Grade

E205 Yearbook Journalism

Yearbook Journalism puts together the yearbook from start to finish – writing, pictures, and layouts. Students are required to attend school functions covered in assigned spreads. Staff members are also required to do some work outside of class (after school, weekends, and holidays).

Credit(s): 1

Course Fee: N/A Pre-Requisites: Approval of Yearbook Instructor, Recommended for 10th – 12th Grade

MATHEMATICS

M102 and M103 Algebra A and Algebra B

Algebra A and B (2 semester course) is a formal study of properties and relations of numbers and symbols representing numbers. Content includes basic operations, properties of real numbers, solving equations and inequalities, graphing, products and factors of polynomials, solving systems of equations, and solving quadratic equations. This course is designed to prepare students are Geometry and Algebra II.

Credit(s): 2

Course Fee: \$2.00

Pre-Requisites: Recommended for 9th Grade

M106 Algebra I

Algebra I is a formal study of properties and relations of numbers and symbols representing numbers. Content includes basic operations, properties of real numbers, solving equations and inequalities, graphing, products and factors of polynomials, solving systems of equations, and solving quadratic equations. This course is designed to prepare students are Geometry and Algebra II.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Recommended for 10th – 12th Grade

M109 Geometry

Geometry emphasizes the deductive process of reasoning. Topics include parallels, triangles, quadrilaterals, similarity, right triangles, trigonometry, circles, polygons, surface area, and volume. Algebraic skills are reviewed and strengthened. "Learning-by-doing" is emphasized.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Algebra I

M110 Geometry Honors

Geometry Honors is designed for better than average students and is a balance of theory and application. Students are introduced to formal proof and are moved to deductive and inductive reasoning. Topics in symbolic logic are included along with concepts of space geometry and transformations. Algebraic skills are reviewed and strengthened through application.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Algebra I / Teacher Recommendation

M113 Technical Geometry

Technical Geometry incorporates the same core geometric concepts required in a standard geometry course but includes additional topics that focus on career and technical applications. These concepts will be taught using practical applications in a contextual style of teaching, including labs and projects. The structure of the course will include teaching groups of skills and concepts followed by their incorporation in a real world application and setting.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Algebra I; must be on Technical Path

M105 Algebra II

Algebra II is a formal study of equations, inequalities, linear functions and relations, systems, matrices, polynomials, irrational and complex numbers, logarithms, sequences, series, probability, and an introduction to trigonometry. Practice in applying knowledge and skills to real-world problems will be encouraged.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Algebra A and B

M107 Algebra II Honors

Algebra II Honors is a formal study of equations, inequalities, linear functions and relations, systems, matrices, polynomials, irrational and complex numbers, logarithms, sequences, series, probability, and an introduction to trigonometry. Practice in applying knowledge and skills to real-world problems will be encouraged. The Honors course will incorporate independent study, self-directed learning, and the use of technology.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Geometry / Teacher Recommendation

M114 Pre-Calculus Honors

Pre-Calculus is advanced Algebra and Trigonometry. Increased attention is given to understanding functions (both algebraic and circular), technology, and applications to real-world mathematics. This course will incorporate independent study, self-directed learning, and the use of technology.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Geometry and Algebra II, Teacher Recommendation

M115 Calculus AP/Honors

AP Calculus/Honors is the equivalent of a college level class and allows students to complete college credit through the AP Calculus Test. Concepts include limits, derivatives, integrals, and applications. This course will incorporate independent study, self-directed learning, and the use of technology.

Credit(s): 1

Course Fee: \$2.00, Cost of AP Test

Pre-Requisites: Pre-Calculus

M116 Discrete Math Honors

Discrete Mathematics with Statistics and Probability is an advanced course that includes using discrete structures to represent and determine solutions to problem situations; collecting, representing, and processing data; and applying probability in problem-solving. This course will incorporate independent study, self-directed learning, and the use of technology.

Credit(s): 1

Course Fee: \$2.00

Pre-Requisites: Geometry and Algebra II, Teacher Recommendation

SCIENCES

Life Sciences

S103 Biology I

Biology I is a course that introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization; interdependence and interactions within the environment to include relationships, behavior, and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological evolution; and current and emerging technology applications.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Physical Science, Recommended for 10th-12th Grade

S104 Biology I Honors

Biology I Honors is a course that introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization; interdependence and interactions within the environment to include relationships, behavior, and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological evolution; and current and emerging technology applications. Biology I Honors is a fast-paced class that is designed to meet the needs of the more academically able student. Student selection is based on past performance in Science and Mathematics.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Physical Science, Teacher Recommendation

S105 Biology II Honors

Biology II Honors is a course that introduces students to major specialty areas of biology. The students explore the following: comparative anatomy and zoology, embryology, Genetics, immunology, microbiology, and botany.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Biology I & Chemistry I; 11th - 12th Grade, Teacher Recommendation

S106 Ecology Honors

Ecology Honors is a course that enables students to develop an understanding of the natural environment and environmental problems. Students will investigate the following: fundamental ecological principles, human population dynamics, natural resources, energy sources and their use, human interaction with the environment, and personal and civic responsibility. This advanced science course will utilize field experiences to meet these expectations. Concepts from Biology I and Chemistry I will be applied.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Biology I, Teacher Recommendation

T503 Anatomy and Physiology Honors

Designed for students to develop an understanding and functioning of the human body. This course may serve as a science credit.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Biology I and Chemistry I; Recommended for 10th – 12th Grade

V201 Agriculture Science

Agriculture Science is instruction in the principles used in agriculture, animal science, computer science, plant science, mechanics, economics, aquaculture, and leadership activities. It is a pre-requisite to all other courses in the Agriculture Science Department. It may be used as a regular lab science credit on the Technical Path.

Credit(s): 1

Course Fee: \$12.00

Pre-Requisites: Recommended for 9th-10th Grade

Physical Sciences

S107 Physical Science

Physical Science is a course that explores the relationship between matter and energy. Hands-on laboratory investigations, individual studies, and group activities should constitute a major portion of the class. Using available technology, students will investigate forces and motion, the chemical and physical properties of matter, how matter and energy interact within the natural world, and the forms and properties of energy. Physical Science offers a basic understanding for advanced studies in Chemistry and Physics.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Recommended for 9th Grade

S108 Physical Science Honors

Physical Science Honors is a course that explores the relationship between matter and energy. Hands-on laboratory investigations, individual studies, and group activities should constitute a major portion of the class. Using available technology, students will investigate forces and motion, the chemical and physical properties of matter, how matter and energy interact within the natural world, and the forms and properties of energy. Physical Science offers a basic understanding for advanced studies in Chemistry and Physics. This Honors course is designed to meet the needs of the more academically able student. Student selection is based on past performance in Science and Mathematics.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Recommended for 9th Grade, Teacher Recommendation

S109 Chemistry I

Chemistry I is a course that explores the properties of substances and the changes that substances undergo. The student will investigate the following: atomic structure, matter and energy, interactions of matter, and properties of solutions, and acids and bases.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Algebra I, Physical Science

S110 Chemistry I Honors

Chemistry I Honors is a course that explores the properties of substances and the changes that substances undergo. The student will investigate the following: atomic structure, matter and energy, interactions of matter, and properties of solutions, and acids and bases. Chemistry I Honors is a fast-paced class that is designed to meet the needs of the more academically able student. Student selection is based on past performance in Science and Mathematics.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Algebra I, Physical Science, and Teacher Recommendation

S111 Chemistry II Honors

Chemistry II Honors is a continuation of Chemistry I, but it investigates in great depth the fundamental makeup of matter, the interaction of matter, and the energy of such interactions. The student will investigate the following: structure of matter, states of matter, and reactions.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Chemistry I, Teacher Recommendation

S112 Physics Honors

Physics Honors is a course that deals with the relationship between matter and energy and how they interact. The following major areas will be investigated: mechanics, thermodynamics, waves and sound, light and optics, electricity and magnetism, atomic and nuclear physics.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Geometry

S113 Earth Science

Earth Science is a course that explores the origins and the connections between the physical, chemical, and biological processes of the Earth System. The student will investigate: the earth system, energy in the earth system, cycles in the earth system, and geologic history. Students focus on topics associated with energy, crystal dynamics, cycles, geochemical processes, and the expanded time scales necessary to understand events in the earth system.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Recommended for 11th or 12th Grade

SOCIAL STUDIES**H108 World History**

World History gives students the opportunity to visit the past, connect with the present, and look to the future. Students study the exploration of ancient and modern civilizations including their impact on and contributions to today's global society. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 9th Grade

H109 World History Honors

World History Honors gives students the opportunity to visit the past, connect with the present, and look to the future. Students study the exploration of ancient and modern civilizations including their impact on and contributions to today's global society. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings. Students in the Honors World History class are expected to complete additional research and writing requirements.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 9th Grade, Teacher Recommendation

H106 World Geography

World Geography is the study of the environment, both physical and cultural. Using and interpreting maps, globes, and charts is stressed. Emphasis is also placed on the interdependency of nations and their resources which contribute to the good life for all. Current affairs and economics are regularly discussed with stress placed upon the outstanding geographic factors in the situation.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 10th – 12th Grade

H107 World Geography Honors

World Geography Honors is the study of the environment, both physical and cultural. Using and interpreting maps, globes, and charts is stressed. Emphasis is also placed on the interdependency of nations and their resources which contribute to the good life for all. Current affairs and economics are regularly discussed with stress placed upon the outstanding geographic factors in the situation. Students in the World Geography Honors class are expected to complete additional research and writing requirements.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 10th – 12th Grade, Teacher Recommendation

H101 U.S. History

U.S. History emphasizes major events that have helped to shape our country. Additional emphasis is given to how basic laws of economics, sociology, psychology, etc. have influenced our past, and how that past affects us today. Study of the constitution and other important American documents is also included.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th Grade

H102 U.S. History Honors

U.S. History Honors emphasizes major events that have helped to shape our country. Additional emphasis is given to how basic laws of economics, sociology, psychology, etc. have influenced our past, and how that past affects us today. Study of the constitution and other important American documents is also included. Students in the U.S. History Honors class are expected to complete additional research and writing requirements.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th Grade, Teacher Recommendation

H103 U.S. History AP

U.S. History AP/DE emphasizes major events that have helped to shape our country. Additional emphasis is given to how basic laws of economics, sociology, psychology, etc. have influenced our past, and how that past affects us today. Study of the constitution and other important American documents is also included. Students in the World History AP class are expected to complete additional research and writing requirements. Students have the opportunity to earn college credit through the AP Test.

Credit(s): 1

Pre-Requisites: Recommended for 11th Grade

Course Fee: Cost of AP Test

H104 U.S. Government and Economics

U.S. Government/Economics is a survey of America's governing and economic systems. The government portion covers citizenship, political parties, the three branches of government as well as state and local government. Fundamental economics such as supply and demand, employment, money, international trade and America's relationship to other economies, now and in the future, will be studied in the economics part of the course.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 12th Grade

H105 U.S. Government and Economics Honors

U.S. Government/Economics Honors is a survey of America's governing and economic systems. The government portion covers citizenship, political parties, the three branches of government as well as state and local government. Fundamental economics such as supply and demand, employment, money, international trade and America's relationship to other economies, now and in the future, will be studied in the economics part of the course. Students in the Honors class are expected to complete additional research and writing requirements.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 12th Grade, Teacher Recommendation

Social Studies Electives**H110 Bible History**

Bible History is the study of the people and events of the Bible as historical facts. The first part of the course deals with the Jews in the Old Testament, specifically the creation through the Babylonian captivity. The life of Jesus Christ is presented in the second part of the course as well as the history of the church.

Credit(s): 1

Course Fee: None

Pre-Requisites: None

H201 Contemporary Issues

In Contemporary Issues students explore the issues and events that shape our society. Topics include events on the local and national news as well as issues that are impacting our students, our school, and our world. The class is focused around group discussions.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th or 12th Grade

H203 Psychology

Psychology studies how people perceive, think, and learn, and why they behave as they do. Some of the areas covered include misunderstood problems of psychology, learning, understanding, human behavior, patterns of behavior, mental health, the family, and other small groups.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th or 12th Grade

H204 Sociology

Sociology deals with man in his relationship with others; it is a study of man's behavior in groups. Emphasis is given to the culture concept; students discuss the nature of the cultural heritage, cultural change, and the effect of culture in shaping personality. Attention is given to the building of human nature and social interactions (the struggle for social status, social adjustments, social control, and social change).

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th or 12th Grade

H111 Leadership Discovery

Leadership Discovery is designed to help students recognize and develop their leadership skills. Through the class students will discover their personality and corresponding character traits. Students will explore various aspects of influence, priorities, and goal setting. Students will work through the book The 7 Habits of Highly Effective Teens to help them become effective in all areas of their lives as a student, person, and leader. Students will also have the opportunity to listen to guest speakers from the community who will speak on the importance of leadership. This is a great class for students who are in a leadership position already or those who want to be leaders.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Recommended for 10th – 12th Grade

H112 Outdoor Leadership

Outdoor Leadership is an experiential (learn by doing) class that emphasizes the development of leadership skills integrated into an outdoor curriculum. The course includes environmental education, conservation, adventure skills, and general outdoor skills.

Credit(s): 1

Course Fee: \$40.00

Pre-Requisites: Recommended for 11th and 12th Grade

H205 Elementary Training

Elementary Training is designed for students considering a career in education. As an introduction to the field of education, students are assigned to a local elementary school where they assist their designated teacher by working with students one-on-one or in small group settings. Students may not take this course more than 2 times for a credit.

Credit(s): 1

Course Fee: None

Pre-Requisites: 12th Grade; Teacher Recommendation

X110 Peer Tutoring I

Peer Tutoring I is designed to enable students to develop peer relationships while acting as peer tutors and positive role models for students with special needs. The buddies will receive instruction about various types of disabilities and learning problems, instructional techniques for students with disabilities, and ideas on how to help increase the social skills, interactions, and participation of their peers with special needs in the day to day activities at their school and in their community. Students may not take this course more than 2 times for a credit.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 11th or 12th Grade, adequate GPA and attendance, Teacher Recommendation

X112 Peer Tutoring III

Students participating in the Peer Tutoring III program will tutor students individually and in small groups as directed by their assigned teacher. To be eligible for this program, students must have at least a 3.0 GPA, be recommended by two teachers, and complete the required application. Administration has final approval of all students selected.

Credit(s): 1

Course Fee: None

Pre-Requisites: Recommended for 12th Grade, GPA and Attendance Requirements

X115 Office Assistant

Students participating in the Office Assistant Program work in the Main Office, Guidance Office, Nurse's Office, or Attendance Office. Students must be on-track for graduation as well as meet the minimum requirements listed below to participate in this program. Students may not take this course more than 2 times for a credit. Application Required.

Credit(s): 1 * Course does affect student's GPA

Course Fee: None

Requisites: Recommended for 12th Grade, GPA and Attendance Requirements

FOREIGN LANGUAGES**L101 Spanish I**

Spanish I includes the study of the Hispanic culture and the Spanish language for basic communication. Students will learn to hear, speak, read, and write in Spanish.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Recommended for 10th – 12th Grade

L102 Spanish II

Spanish II further develops the communication skills acquired in Spanish I. Students will be immersed in the Spanish language, thus constantly reading, writing, hearing, and speaking Spanish.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Spanish I

L103 Spanish II Honors

Spanish II Honors is for students who are highly motivated in developing skills in language proficiency. Students will be able to practice hearing, speaking, reading, and writing in Spanish at a higher acquisition level.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Spanish I, Teacher Recommendation

L104 Spanish III Honors

Spanish III Honors is for students who are motivated to move beyond the University Path required Credit(s). The curriculum includes extensive use of language as well as further development of reading and writing skills intended to move toward language proficiency.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Spanish II, Teacher Recommendation

L105 Spanish IV Honors

Spanish IV Honors is designed for those students who wish to further their oral and auditory skills and improve their fluency. The curriculum includes advanced grammar, vocabulary, culture, and literature in Spanish.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Spanish III, Teacher Recommendation

L106 Spanish V Honors

Spanish V Honors is designed for students who wish to highly develop their communication skills in Spanish. Students will also further develop their understanding of Spanish literature, authors, art, and artists.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Spanish IV, Teacher Recommendation

L201 French I

French I is the study of basic French grammar as well as the pronunciation of basic vocabulary including greetings, time, dates, weather, foods, and directions. Students will learn to communicate on the beginner level.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Recommended for 10th – 12th Grade

L202 French II

French II reviews French I concepts and continues into the Intermediate Level of French grammar and French vocabulary. Students will converse in French, write simple poetry, read letters and literary excerpts, and study the geography of France.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: French I

L203 French II Honors

French II Honors will review the concepts of French I and continue into the intermediate level of French grammar and French vocabulary. Students will converse in French, write simple poetry, read letters and literary excerpts, and study the geography of France. Students will be expected to learn material at a higher acquisition rate.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: French I, Teacher Recommendation

L204 French III Honors

In French III Honors, students will review French II concepts and continue into the advanced intermediate level of French grammar and vocabulary. This course will also introduce students to various French authors and their literary works.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: French II, Teacher Recommendation

L205 French IV Honors

French IV Honors includes a review of French III concepts and continues into the advanced level of French vocabulary and grammar. This class covers literary works and authors on the intermediate level. Students will also learn advanced vocabulary and write original papers in French.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: French III, Teacher Recommendation

L206 French V Honors

French V Honors is a review of French IV and continues with new vocabulary and grammar. This class covers literary works and authors on the intermediate-advanced level. The class will read advanced literature in the target language and study works from the 17th – 19th centuries. The class will also research and discuss French society and various topics of current interest.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: French IV, Teacher Recommendation

FINE ARTS

F101 Art I

Art I covers the basic elements of design. Drawing emphasis is on line, shape, texture, color, shading, and perspective. Beginning painting is taught using watercolor and acrylics. Experiments include drawing with charcoal and pastels. Subject matter covers still life, landscapes, and the human figure. Art history and appreciation are also studied.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: None

F102 Art II

Art II is a continuation of the drawing and color design fundamentals developed in Art I. Emphasis is on various commercial assignments including: calligraphy (lettering), logo design, package design, poster design, music album design, cartooning, and printing. Certain artists are studied along with the projects. A mobile sculpture is completed.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Art I

F105 Pottery

Beginning Pottery deals with the basic techniques of creating hand and wheel-built pottery. Students will construct projects using the coil, slab, wheel, pinch, and mold methods. The objective of this course is to show how to prepare, construct, fire, and glaze the clay. Emphasis of the course consists of a series of teacher demonstrations showing the forming methods which will be followed by student-created pieces. Slides, films, and discussions in the critique-form supplement each project.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Recommended for 11th – 12th Grade

F401 Theatre Arts I

Theatre Arts I is intended to introduce the student to many aspects of the dramatic arts spectrum. Emphasis is placed on theatre history, playwriting, and basic acting through the use of workshop theatre sciences.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: None

F402 Theatre Arts II

Theatre Arts II is intended to develop theatre skills from acting to directing to technical positions, which an individual student discovered in Theatre Arts I. Emphasis is placed on advanced acting and production techniques through use of script analysis and character development. Pre-requisite: Theatre Arts I

Credit(s): 1

Course Fee: N/A

Pre-Requisites: None

F307 General Music

General Music is the study of an appreciation of music from the beginning of time to the present. Course content includes music theory, music history, ear training, vocal performance, performance practices, music in different cultures and analysis of music composition. Various forms of media are utilized.

Credit(s): 1

Course Fee: Any incurred costs of field trips (not required)

Pre-Requisites: None

F309 Music History and Theory

Music History and Theory is for those students interested in learning about the history of music from early to present days. The course also focuses on the techniques and materials of music such as notation, harmonic analysis, sight singing, intervals, etc. This class is strongly encouraged for those students pursuing a career in music.

Credit(s): 1

Course Fee: \$10

Pre-Requisites: Recommended for 10th – 12th Grade

F201 Marching Band I – Winds & Percussion

Marching Band is offered only in the fall for students wishing to continue their pursuit towards better musicianship with wind and percussion instruments. The course focuses on the study of reading and performing music of various styles and genres. Physical movement is of great importance throughout this course; students are expected to march and play an instrument. This ensemble will be required to travel to various football games and competitions to perform and compete. Attendance and participation in all scheduled performances is required.

Credit(s): 1

Course Fee: \$350 For those using a school-owned instrument, there is an additional \$30 rental fee.

Pre-Requisites: Instrumental Music Class during the previous school year

F204 Wind Ensemble Honors

Wind Ensemble Honors is offered only in the spring for students wishing to continue their pursuit towards better musicianship, and students may only be enrolled upon teacher recommendation. This audition-only course focuses on the study of reading and performing of advanced music of various styles and genres.

Throughout the semester, the student will be required to participate in rehearsals and concerts sometimes occurring after school hours, as well as attend a local music event each six-week grading period. The student is also required to audition for area clinics and honor bands in addition to other related activities to fulfill the requirements of this honors-level course. Attendance and participation in all scheduled performances is required.

Credit(s): 1

Course Fee: \$100. For those using a school-owned instrument, there is an additional \$30 rental fee. (All fees are waived if the student was enrolled in Marching Band I or II in the same school year.)

Pre-Requisite: Audition and Teacher Recommendation

F206 Concert Band

Concert Band is offered only in the spring for students wishing to pursue better musicianship. The course focuses on the study of reading and performing music of various styles and genres. Throughout the semester, the student will be required to participate in rehearsals and concerts sometimes occurring after school hours. Optional activities include audition for area clinics and honor bands. Attendance and participation in all scheduled performances is required.

Credit(s): 1

Course Fee: \$100. For those using a school-owned instrument, there is an additional \$30 rental fee. (All fees are waived if the student was enrolled in Marching Band I or II in the same school year.)

Pre-Requisite: None

F207 Marching Band II – Color Guard

Color Guard is an audition-only course offered in the fall as a section of the marching band. Students will participate in the visual/movement arts which include dance, flags, sabers, and rifles. This ensemble will be required to travel to various football games and competitions to perform and compete. Attendance and participation in all scheduled performances is required.

Credit(s): 1

Course Fee: \$350 + Cost of Uniform & Equipment

Pre-Requisites: Audition

F302 and F303 General Choir A and B

The Bradley Central High School General Choir is an auditioned vocal group that performs a variety of musical styles at numerous venues throughout the school year. Music performed will be traditional and standard choral literature, show music, Broadway hits, spirituals, gospel, jazz, patriotic, as well as other genres. Students will learn music reading skills, learn to sight-read rhythms, learn to sing in solfege syllables, learn fundamental dance steps, stage presence, posture, and correct singing. The ensemble performs locally at nursing homes, schools, civic group meetings, and in two-three formal concerts during the year.

Credit(s): 2

Course Fee: \$100/year

Pre-Requisites: Audition

F501 and F502 Advanced Show Choir A and B

VocalMotion is the premiere competing show choir at Bradley. It is an auditioned group of approximately 20-30 advanced singers/dancers. Student must first audition, be accepted, and pay a non-refundable down payment of \$50.00 to be in this class. Students will be selected based upon their vocal tone, stage presence, facial expression, attitude, and dancing abilities during their rehearsals and performances in their previous choir.

Credit(s): 2

Course Fee: \$550/year

Pre-Requisites: Audition

F601 and F602 A cappella Jazz Choir

A cappella Jazz Choir is an auditioned vocal ensemble. Students will perform a cappella jazz, spirituals, show tunes, patriotic, barbershop and other standard a cappella choral literature. This group will perform at venues in the community as well as competitions through the school year.

Credit(s): 2

Course Fee: \$150/year

Pre-Requisites: Audition

WELLNESS**W100 Wellness**

Wellness consists of classroom instruction which focuses on physical fitness, nutrition, communicable and non-communicable disease, drug abuse, first aid, mental health, and family living. Approximately half of the instruction time is spent in physical activities outside and in the gym.

Credit(s): 1

Course Fee: \$1.00

Pre-Requisites: Recommended for 9th Grade

PHYSICAL EDUCATION**W101 Physical Education I**

Physical Education I is designed to meet the physical education needs and interests of students as related to their health and organic fitness. Activities include conditioning and instruction in the team sports of softball, basketball, volleyball, soccer, track, stunts, and tumbling.

Credit(s): 1

Course Fee: \$1.00

Pre-Requisites: None

W102 Physical Education II

Physical Education II is an introductory level physical fitness course. Dynamic activities, general exercise, stretching, aerobic activities, and strength training are emphasized.

Credit(s): 1

Course Fee: \$1.00

Pre-Requisites: None

W103 Physical Education III (Weightlifting)

Physical Education III is an advanced physical fitness course. Emphasis is on flexibility, anaerobic conditioning, and advanced weight training. Running and intense weight-training are included daily.

Credit(s): 1

Course Fee: \$1.00

Pre-Requisites: None

W201 Drivers Education

Drivers Education consists of thirty hours of classroom instruction and six hours of driving range and highway driving. Students must have their Learner's Permit before they can register for the class.

Credit(s): 1

Course Fee: \$50.00

Pre-Requisite: Must have Learner's Permit

W951 JROTC IA and JROTC B

JROTC IA and IB focuses on citizenship, building teamwork, and developing discipline and self-confidence. Coursework in U. S. citizenship (Constitution); career awareness; consumer awareness; oral communications; learning styles; conflict resolution; leadership; health (life saving first aid, and drug awareness); PE (weekly physical training); earth science (map reading); U. S. military history overview. Selected students assigned squad level leadership roles.

Credit(s): 1-2

Course Fee:

Pre-Requisite: N/A

W952 JROTC IIA and JROTC IIB

JROTC IIA and IIB focuses on citizenship, teamwork, leadership, and motivation. Coursework in written communications; presentation techniques; leadership and management; values and ethics; PE (weekly physical training); health (first aid, hygiene, and drug awareness); earth science (map reading); U. S. military history (Cold War era 1945-1991); U. S. Citizenship (civil rights); career awareness; technology awareness. Students rotate platoon level leadership roles.

Credit(s): 1-2

Course Fee:

Pre-Requisites: JROTC IA and JROTC IB

W953 JROTC IIIA and JROTC IIIB

JROTC IIIA and IIIB focuses on citizenship, teambuilding, and leadership. Coursework in communication process and reading; leadership; PE (weekly physical training); health (first aid, stress, and drug awareness); earth science (map reading); U. S. military history (1865-1945); U. S. citizenship (judicial system); career awareness; personal financial management; technology awareness. Selected students assigned company level leadership, and battalion staff positions.

Credit(s): 1-2

Course Fee:

Pre-Requisites: JROTC IIA and JROTC IIB

W954 JROTC IVA and JROTC IVB

JROTC IVA and IVB focuses on citizenship, teambuilding, and leadership. Practical exercises in oral and written communications; leadership (ethics); drug awareness; U. S. military history (1775-1865); PE (weekly physical training); career awareness. Students assigned to company and battalion level command and staff leadership positions. Students are responsible for peer teaching JROTC IA - IIIB students in all areas of the curriculum under the supervision of the Senior Army and Army Instructors.

Credit(s): 1-2

Course Fee:

Pre-Requisites: JROTC IIIA and JROTC IIIB

BUSINESS**B101 Accounting I Honors**

Accounting I Honors introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, partnership, and corporation. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Keyboarding, Algebra I, Recommended for 10th-12th Grade

B102 Accounting II Honors

Accounting II Honors is an advanced study of concepts, principles, and techniques that build on the competencies acquired in Accounting I. Including keeping the electronic and manual financial records of a sole proprietorship, partnership or corporation. Departmental, management, cost, and not-for-profit accounting systems are also explored.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Accounting I, Recommended for 11th – 12th Grade

B104 Business Management

Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development, and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Keyboarding, Recommended for 11th – 12th Grade

B106 Keyboarding / Document Formatting

Keyboarding provides students with an opportunity to learn to keyboard in the correct way, using proper techniques and practicing at specified levels of practice speed. The student will demonstrate a combination of input skills (*advanced keyboarding, scanning, speech recognition, handwriting recognition, and the use of a mouse*) in the production documents. Industry production standards are emphasized. Formatting, typography and layout and design concepts are applied in document preparation of business letters, forms, invoices, manuscripts, and tabulated and columnar information. Proofreading and editing skills are applied.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Recommended for 9th - 10th grade

B109 Computer Applications

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production; accurate production analysis; management of information and design, and presentation of a multimedia project.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Keyboarding

B209 Integrated Input Technology Honors

This is a capstone course in which students will learn necessary skills in problem-solving using current and emerging integrated technology to include a variety of input technologies such as advanced keyboarding, scanning, speech recognition, handwriting recognition, and the use of a mouse in the production of mail-able business documents. The course focuses on student choice, accountability and competency. Students work toward the attainment of high-level employable competencies in areas which may include (but are not limited to) integrated software applications, computer systems, communication systems, networking, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, database design and management, multimedia presentations, schedule and contact management, etc.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Computer Applications; Recommended for 11th-12th Grade

B205 Web Design Essentials I

This course will teach students workplace and leadership skills for advancement into the Web Design Application course. Keying and layout and design skills are essential. Students will develop Internet research techniques for business; acquire navigation mapping skills; effectively use a Web site; study fundamental concepts of digital commerce transaction security; examine related social, legal and ethical issues; study electronic financial management practices, and integrate the elements of Web Design. Web Design Essentials focuses on the language, structure, and essential concepts and principles of page layout and design and the ethics related to the production of Internet presentations. Typography layout, and design guidelines will be applied in the design of Web pages. Upon completion of the course, a student will be able to evaluate, implement and apply the use of technology in Digital Commerce and Web Page Design for business.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Computer Applications, Recommended for 10th-11th Grade

B206 Web Design Applications II Honors

This course, which is a project-based continuation of Web Design Essentials, teaches students work-related skills for advancement into post-secondary education and/or the workplace. The course will provide the concepts and applications that may lead to business industry certification. Course content includes exposure to advanced Web design, graphics, animations, and the complex site design. The course content provides students the opportunity to acquire advanced skills in both theory and practical application of Web design and of leadership and interpersonal skill development.

Credit(s): 2

Course Fee: \$15.00

Pre-Requisites: Web Design Essentials I; Recommended for 11th -12th Grade

B207 Interactive Multimedia Presentation

The student will apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, and written and oral communication. Typography, layout, and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require imported data/graphics, digital, audio, and video clips. Team development will also be stressed as students work on multimedia projects. Laboratory facilities and experiences simulate those found in business and industry.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Keyboarding/Document Formatting, Recommended for 11th – 12th Grade

MARKETING**V300 Exploration of Marketing Management**

This course is designed to introduce and provide an overview of marketing, management, and related employment opportunities. Students will explore important marketing concepts, functions, communication, and interpersonal skills necessary for marketing and management careers.

Credit(s): 1

Course Fee: \$12.00

Pre-Requisite: Recommended for 9th Grade

V304 Marketing I

Marketing I is the study of marketing concepts and principles and their practical application. Students will examine the risks and challenges marketers face to establish a competitive edge. Subject matter includes economics, marketing foundations/functions with emphasis on selling, promotion, product/service management, pricing and distribution. In addition, this course will explore human resource and leadership development.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Recommended for 10th-12th Grade

V302 Sports and Entertainment Marketing

Sports and entertainment marketing will include a specialized marketing course which is designed for students to develop skills in the areas of facility design, merchandising, advertising, public relations/publicity, event marketing, sponsoring, ticket distribution, and career opportunities as they relate to the sports and entertainment industry.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Marketing I; Recommended for 11th-12th Grade

V301 Advertising and Public Relations

Advertising and Public Relations is designed to develop an understanding of concepts and strategies needed to communicate information about products, services, ideas and/or images to achieve a desired outcome.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Marketing I; Recommended for 11th-12th Grade

V303 Retail Operations

This course will include the various components of retail trade. The subject matter will include marketing concepts, economic concepts, information management, finance and risk management, distribution and inventory, buying and pricing, promotion, selling, customer service, retail careers, integration with academic subject matter, the vocational student organization and the cooperative work experience. In this course the student will learn that retailing is a significant and vital component to the United States economy and is quickly becoming an integral part of the global economy. Throughout the course the student will be made aware of the importance of retailing in its various forms as the final step in getting products and services to consumers in the market place.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Marketing I; Recommended for 11th-12th Grade

V400 Entrepreneurship

Entrepreneurship will include enhanced marketing information as it relates to entrepreneurial activities. Subject matter will include introductory entrepreneurial concepts, business plan development, management responsibilities, and legal and ethical issues of business ownership.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Marketing I; Recommended for 11th-12th Grade

V401 Virtual Enterprise Honors

Virtual Enterprise (VE) is a simulated business environment. The VE students will be involved in actual on the job work experiences, including accounting, personnel administration, management and marketing. The only difference between the VE and an actual business is that no material goods are produced or legal tender exchanged. However, services will be provided. Working in a team, the student will develop and enhance oral and written communication skills through initiative, responsibility, and creativity.

Credit(s): 1-2

Course Fee: \$25.00

Pre-Requisites: Marketing I or Business Management or Accounting I or Web. Essentials I. Application Required

V402 Marketing Work-Based Learning

Marketing Work-Based Learning is on the job experience. Students have the opportunity to work in a marketing-related job and earn credit. Student will be required to check-in with Marketing Instructor and meet course requirements as designated by instructor.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Recommended for 12th Grade; Approval of Instructor

AGRICULTURE**V201 Agriculture Science**

Agriculture Science includes instruction in the principles used in agriculture, animal science, computer science, plant science, mechanics, economics, aquaculture and leadership activities. It is a pre-requisite to all other courses in the Agriculture Science Department. It may be used as a regular lab science credit on the Technical Path.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Recommended for 9th-10th Grade

V203 Small Animal Care

Small Animal Care contains objectives to prepare students for careers in managing and caring for specialty and pet animals. As our population raises more specialty animals and pets for production purposes and personal value, careers that work with these animals in a safe environment will continue to expand.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th-12th Grade

V204 Agriculture Mechanics and Maintenance

Agricultural Mechanics and Maintenance includes standards to prepare students for operational procedures for a shop or a home environment. Students learn basic skills in areas ranging from welding and electricity to land measuring to plumbing. As students enter the 21st century, they need to have skills that can be used in a rural or an urban environment.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th-12th Grade

V205 Greenhouse Management

Greenhouse Management sets a foundation for progress in the horticulture sub-cluster area. As populations continue to expand, the importance of food production in a condensed, climate-controlled environment increases. Understanding the integrated principles needed for the successful management of a greenhouse will allow the agricultural industry to continue to produce the quality and quantity of food and fiber needed in the 21st century.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science, Recommended for 10th-12th Grade

V206 Agriculture Power and Equipment

Agricultural Power and Equipment includes basic information and laboratory activities on small engines, tractors and agricultural equipment maintenance, repair and overhaul. The standards address competencies for electrical motors, hydraulic systems and fuel-powered engines.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science, Recommended for 10th-12th Grade

V207 Animal Biotechnology Honors

This course is to prepare students with interests in higher-level, science-based animal agriculture. Students will study rigorous standards related to taxonomy, anatomy and physiology, body systems, reproduction, hormonal and immune systems, nutrition, heredity and genetics (molecular biology), health, agrimedecine, wellbeing, DNA and biotechnology, and emerging technologies associated with companion and production animals.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science, Recommended for 11th and 12th Grade

V209 Horse Science

Horse Science is designed to develop basic understanding of equine handling, health, maintenance, reproduction, selection, and management. Horse populations in the state have continued to grow and their economic impact has increased with this growth. This course is designed to help students prepare for the social and economic impact equine science will have on the 21st century.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science, Recommended for 10th-12th Grade

V212 Wildlife Management and Recreation

Wildlife Management and Recreation emphasizes the awareness of conservation and preservation management practices utilized to ensure the sustainability of our outdoor resources. Integrated academics and experiential learning will build conservation awareness among students. This will, in turn, generate career interests and more responsible land ownership in the community as we enter the 21st century.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th-12th Grade

V213 Hydroponics/Aquaculture

Hydroponics includes standards that challenge students to plan for future food needs using advanced technologies and less space. Soilless media are becoming increasingly important as populations grow and farmland is consumed by urban growth. Understanding how the benefits of hydroponics blend with environmental conservation is important as we enter the 21st century.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th – 12th Grade

V214 Plant and Soil Science

Plant and soil science is designed to address issues dealing with the use of natural resources and agronomic crops as we see the need for improved management methods to meet the needs of agricultural production while addressing concerns dealing with urbanization and soil conservation.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th – 12th Grade

V215 Forestry Management

Forestry is designed to develop student knowledge of forestry technology as it progresses into the 21st century. The student will develop skills in producing, harvesting, marketing, and developing forestry products. Forests are one of the state's most valuable resources. If we are to enjoy their products in the future, they must be conserved today.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Agriculture Science; Recommended for 10th – 12th Grade

V216 Principles of Agricultural Engineering

Principles of Agricultural Engineering includes standards on metal fabrication and agriculture structures. Subject matter will include hot/cold metal work, cost and material computation, electric wiring and codes, engine service and repair, blueprint reading and drawing and selection of appropriate materials for projects.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Any 2 courses in the Agricultural Mech. sub-cluster; Recommended for 11th-12th Grade

V217 Principles of Veterinary Science Honors

Principles of Veterinary Science challenges students to use advanced technologies and medical treatments to maintain the health of animals. The animal health industry continues to grow in importance and prominence as more people purchase animals for pleasure and sustenance. This course addresses standard principles of veterinarian medicine and includes new methods of treatment that will be used as we move into the 21st century.

Credit(s): 1

Course Fee: \$15.00

Pre-Requisites: Any 2 courses in Animal Science sub-cluster; Recommended for 11th – 12th Grade

FAMILY AND CONSUMER SCIENCE

V101 Family and Consumer Science

Family and Consumer Science is a comprehensive, foundation course designed to assist students in developing the core knowledge and skills needed to manage their lives. Emphasis is on leadership, human development, family and parenting education, consumer economics and resource management, housing and living environments, nutrition and foods, textiles and apparel, and career preparation. Critical skills in decision making, problem solving, critical thinking, technology, work and family management, and workplace readiness are reinforced through authentic experiences.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: None; Recommended for 9th – 10th Grade

V102 Family and Parenting Education

Family and Parenting Education is a specialized course which emphasizes the significance of the family as a basic unit of society and its impact on the well-being of individuals in society. The major focus of the course is preparation for marriage, parenthood, and the responsibilities for successful management of family life.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Family and Consumer Science; Recommended for 10th-12th Grade

V103 Child and Lifespan Development

Child Development is a specialized course that prepares students to understand the physical, social, emotional, and intellectual growth and development of children. The course is designed to help young people acquire knowledge and skills essential to the care and guidance of children as a parent or caregiver. Emphasis is on helping students create an environment for children that will promote optimum development. Experiences such as laboratory observations, job shadowing, or laboratory participation may be included if opportunities are available.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Family and Consumer Science; Recommended for 10th-12th Grade

V104 Life Connections

Life Connections is a course designed to assist students in making a successful transition from high school into the post high school environment. Students will be empowered to take action for the well-being of themselves and others as they effectively manage the roles and responsibilities created by family, career, and community interactions. The role of communication in establishing and maintaining healthy interpersonal relationships is emphasized. Skills related to decision making, problem solving, critical and creative thinking, technology, and workplace readiness practiced in Life Connections will provide students with an understanding of how to plan for and manage careers in an ever-changing workplace.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Family and Consumer Science; Recommended for 11th-12th Grade

V105 Nutrition and Foods

Nutrition and Foods is a specialized course with emphasis on helping students understand the significance of food, principles of nutrition, and the relationship of nutrition to health and well-being. The course offers the students opportunities to develop skills in the selection, preparation, storing, and serving of food, meal management to meet individual and family nutrition needs across the life span, and optimal use of food resources. Careers and occupations in nutrition and food industries will be explored.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Family and Consumer Science, Recommended for 10th-12th Grade

V109 Interior Design

Interior Design is a specialized course focusing on the interior of living environments. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and “green” design; and professional and marketing skills. Instruction includes academic integration and technology applications.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Family and Consumer Science; Recommended for 10th-12th Grade

V110 Teaching as a Profession

Teaching As A Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; self-exploration and understanding; the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Family and Consumer Science; Recommended for 11th-12th Grade

HEALTH SCIENCE

T501 Health Science Education

Health Science Education is an introduction to broad standards that serve as a foundation for Health Care Occupations and functions across health services. Units included are academics in health care communications systems, legal responsibilities, ethics, teamwork, and safety practices.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Recommended for 10th – 12th Grade; Select 9th Graders

T502 Rehabilitative Therapies

This course will focus on enabling the person to live to the fullest capacity possible. Units will include sports medicine, physical therapy, occupational therapy, speech / language therapy, sports medicine, art, music, dance therapy, and others.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Health Science Education; Recommended for 10th-12th Grade

T503 Anatomy and Physiology Honors

Designed for students to develop an understanding and functioning of the human body. This course may serve as a science credit.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Biology I and Chemistry I; Recommended for 11th – 12th Grade

T504 Nursing Education Honors

Nursing Education consists of 18 units of study dealing with direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home as well as demonstrations in the classroom. Students can be registered by the Tennessee Department of Health after the completion of the course; 100 hours clinical and theory, passing a state test (both written and skills) and will be job ready. Students may complete a clinical internship following this course. Jobs include Registered Nurse, Clinical Nurse Specialist, Nurse Practitioner, Nurse Midwife, Nurse Anesthetist, Forensic Nurse and others.

Credit(s): 1

Course Fee: \$50.00 plus scrubs and cost of state test

Pre-Requisites: Medical Therapeutics 11th - 12th Grade; Teacher Recommendation; Must be at least 16 year old

T506 Clinical Internship

Students may choose to complete a clinical internship after completing Medical Therapeutics, Diagnostic Medicine, Health Informatics, Support Services, Rehabilitative Therapies, Nursing Education, or Emergency Medical Services. The internships are designed to be completed in a hospital, nursing home, rehab center, medical office, or other health care facility.

Credit(s): 1

Course Fee: 50.00 plus scrubs and supplies

Pre-Requisites: Must be in 12th Grade; and meet qualifications listed above; teacher recommendation

T508 Medical Therapeutics

Medical Therapeutics provides knowledge and skills to maintain or change to the health status of an individual over time. This could include careers such as dental, dietetics, medical assistance, home health, nursing, pharmacy, respiratory, social work, nutritionist, Physician, Psychiatrist, Psychologist, Veterinarian, Gerontology Service Provider, Medical Practice owner, Attorney for health care, and others.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Health Science Education; Recommended for 10th-11th Grade

T509 Forensic Science Honors

Forensic Science is an overview of how science is applied to solving crimes. Topics include: history of forensic sciences, collecting of evidence, analyzing results and hands-on applications of many laboratory techniques used in solving crimes and identifying people and future careers. Students will participate in a mock (staged) crime scene to apply knowledge and skills gained. Jobs include forensic nurses, pathologists, psychiatrists, crime scene investigators, medical examiners/coroners, forensic technicians, criminalists, toxicologists, wildlife specialists, forensic engineers, accountants, computer specialists, aviation and construction accident investigators, forensic photographers, skull reconstructionists, document and polygraph examiners.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Health Science Education; Recommended for 11th-12th Grade

T510 Emergency Medical Services

Emergency Medical Services is designed for students who are interested in becoming an Emergency Room Physician, Emergency Medical Technician, Paramedic, or Emergency Room Nurse.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Health Science Education; 12th Grade Only

CULINARY ARTS

T401 Culinary Arts I

Culinary Arts I is the first level of Culinary Arts. This course prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation, service, and interpersonal skills. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Recommended for 10th or 11th Grade

T402 Culinary Arts II

Culinary Arts II is the second level of Culinary Arts. This course prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by demonstrating the principles of safety and sanitation, food preparation skills, and teamwork to manage an environment conducive to quality food production and service operations. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning and work-based learning opportunities.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Culinary Arts I; Recommended for 11th – 12th Grade

T403 Culinary Arts III

Culinary Arts III is the third level of Culinary Arts, and it serves as a capstone course. It too prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions including participation in a cooperative education experience.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Culinary Arts I and II, Recommended for 11th – 12th Grade

LEGAL AND PROTECTIVE SERVICES**T601 Criminal Justice I**

Criminal Justice I is the first level of study of criminal justice careers. This course prepares students for work-related knowledge and skills for advancement into the second level of criminal justice careers. Course content focuses on areas comprised of planning, managing, and providing judicial, legal, and protective services. The course is an overview of the legal justice system and builds a better understanding of the development of laws on state, federal, and international levels. New technology and career opportunities in criminal justice are an integral part of the course content

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Recommended for 10th-11th Grade

T602 Criminal Justice II

Criminal Justice II will offer an in-depth study of criminal justice careers in which current criminal justice career issues will be discussed and debated. Local, state, federal, and international laws will be analyzed. Subject matter will include a comparison of the criminal justice careers in the United States with other countries. Students will have opportunities to participate in mock trials and field trips with criminal justice career emphasis. Course content will introduce new technology, effects of forensic analysis, and career opportunities. The course content will include information for planning, managing, and providing judicial criminal justices.

Credit(s): 1

Course Fee: \$5.00

Pre-Requisites: Criminal Justice I; Recommended for 11th-12th Grade

T603 Criminal Justice III Honors

In Criminal Justice III, students will apply knowledge gained in Criminal Justice Careers I and II through the use of research exercises. American Psychological Association (APA) research guidelines, a professional standard, will provide the format basis. The course will call upon students to engage in a variety of professionally used information-gathering techniques, including conducting interviews, making observations at courthouses, researching, formulating, and evaluating statistical data through Place-Based Learning. The individual and group activities will help students develop problem-solving and teamwork skills in conjunction with development of academic skills. This program uses as its foundation work-place related experiences, students are expected to travel outside the classroom as part of their research-gathering activities that will provide more context, detail, and real-life activities. This course is designed for seniors in preparation for continuing education in the areas of criminal justice careers.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Criminal Justice II; Recommended for 12th Grade

HUMAN SERVICES / COSMETOLOGY**T301/T301B Principles of Cosmetology**

Principles of Cosmetology is the first level of cosmetology, and it prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Credit(s): 2 (full year course)

Course Fee: \$50.00

Pre-Requisites: Recommended for 10th – 11th Grade

T302/T302B Design Principles of Cosmetology

Design Principles of Cosmetology is the second level of cosmetology and prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee Board of Cosmetology manicuring examination for a Tennessee Manicure License.

Credit(s): 2 (full year course)

Course Fee: \$50.00

Pre-Requisites: Principles of Cosmetology, Recommended for 11th-12th Grade

T303/T303B Chemistry of Cosmetology

Chemistry of Cosmetology is the advanced level of cosmetology and it prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee State Board of Cosmetology Manicuring examination for a Tennessee Manicuring License.

Credit(s): 2-4 (full year course)

Course Fee: \$50.00

Pre-Requisites: Design Principles of Cosmetology, Recommended for 12th Grade

T304 Cosmetology Work-Based Learning

Cosmetology Work-Based Learning is on the job experience. Students have the opportunity to work in a cosmetology-related job and earn credit. Student will be required to check-in with Cosmetology Instructor and meet course requirements as designated by instructor.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Recommended for 12th Grade; Approval of Instructor

ENGINEERING GRAPHICS**T204 Computer Aided Drafting I**

Computer Aided Drafting I is a course in which students learn the basic concepts of scale drawings and orthographic projections by making simple two- and three-dimensional drawings using manual drafting tools and computer-aided drafting (CAD). Course content will enable students to make the transition into the use of CAD software by having them make increasingly sophisticated drawings. Students work in teams which will culminate in a class project to create a complete set of construction and assembly drawings for a mechanical product.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Algebra I or Algebra IT, Recommended for 10th-11th Grade

T205 Principles of Engineering / CAD II

Principles of Engineering / CAD II is a course in which students explore the nature of engineering and the skills fundamental to all engineering fields, as well as the role of quality-assurance and quality control procedures in manufacturing. Emphasis is placed on actual projects and presentations and the use of modern tools (e.g., CAD). The course can be enhanced by cooperation with local manufacturing facilities, which can provide real measurement data and opportunities for on-site visits to witness engineering tasks and projects, as well as quality-control data collection.

Credit(s): 1

Course Fee: \$20.00

Pre-Requisites: Computer Aided Drafting I; Geometry or Geometry Tech; Recommended for 10th – 12th Grade

T206 Advanced Computer-Aided Drafting III Honors

Advanced Computer-Aided Drafting III is a course in which students will learn to use a CAD program to create engineering drawings including plan drawings, assembly drawings, welding and process drawings, cross sections, 3D representations, and bills of materials. The course consists primarily of individual drawing projects, with some group projects. Emphasis is on drawing projects of increasing complexity.

Credit(s): 1 or 2

Course Fee: \$20.00

Pre-Requisites: Principles of Engineering, Recommended for 11th - 12th Grade

T208 Engineering Work-Based Learning

Engineering Work-Based Learning is on the job experience. Students have the opportunity to work in an engineering-related job and earn credit. Student will be required to check-in with Engineering Instructor and meet course requirements as designated by instructor.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Recommended for 12th Grade; Approval of Instructor

CAREER MANAGEMENT**T090 Career Management for Success**

Career Management for Success is a core course for career clusters. The course provides students with tools for achieving success in their academic, work, and personal lives. Course content emphasizes the basic skills and knowledge needed for employment success, as identified by industry and supported by relevant national standards. All course content is presented in a real-world context, providing concrete opportunities for developing personal and career goals, effective communication skills, teamwork abilities, and successful work attitudes.

Credit(s): 1

Course Fee: \$10.00

Pre-Requisites: Recommended for 9th Grade

T909 T & I Work-Based Learning

T&I Work-Based Learning is a program that allows students to earn Credit(s) for having a job. Students who work a minimum of 10 hours per week may leave campus for 1 class period. Students who work a minimum of 20 hours per week may leave campus for 2 class periods. In addition, students must meet the following requirements: have proof of driver's license, car insurance, and BCHS campus parking permit, complete required paperwork, be on-track for graduation, and have a good attendance record at Bradley. During the semester students will be required to complete a research paper about their career of interest. Students interested in this class must interview with the WBL Coordinator (setting up the interview is the student's responsibility).

Credit(s): 1

Course Fee: None

Pre-Requisites: Must be in 12th Grade, and meet the requirements listed above. Students must also been enrolled in CTE class the same semester that they are enrolled in WBL.

MANUFACTURING/WELDING CLUSTER

T801/T801B Principles of Welding (Welding I)

Principles of Welding (Welding I) is a course in which students will learn basic skills and knowledge related to cutting and welding applications. Welding and cutting skills will be developed in the context of a series of projects. Combined with the second year course, Welding Applications (Welding II), the student should be prepared for Entry Level Welding Certification, as defined by American Welding Society QC10.

Credit(s): 2 (full year course)

Course Fee: \$20.00

Pre-Requisites: Algebra I or Algebra IT, Recommended for 10th-11th Grade

T802/T802B Welding Applications (Welding II)

Advanced Welding Applications (Welding II) is a course designed to follow Principles of Welding, in which students will learn more advanced techniques and skills related to cutting and welding applications, particularly as they relate to stainless steel and aluminum. Welding and cutting skills will be developed in the context of a series of projects. Following the completion of this course, the student should be prepared for Entry Level Welding Certification, as defined by American Welding Society QC10.

Credit(s): 2 (full year course)

Course Fee: \$20.00

Pre-Requisites: Principles of Welding (Welding I); Geometry or Technical Geometry; Recommended for 11th - 12th Grade

T803/T803B Welding Applications III

Advanced Welding Applications III is a course designed to follow Principles of Welding, in which students will learn more advanced techniques and skills related to cutting and welding applications, particularly as they relate to stainless steel and aluminum. Welding and cutting skills will be developed in the context of a series of projects. Following the completion of this course, the student should be prepared for Entry Level Welding Certification, as defined by American Welding Society QC10.

Credit(s): 2 (full year course)

Course Fee: \$20.00

Pre-Requisites: Principles of Welding (Welding I); Geometry or Technical Geometry; Recommended for 12th Grade

MANUFACTURING/MACHINE CLUSTER

T701/T701B Principles of Manufacturing I

Principles of Manufacturing I focuses on the essential principles that must be mastered for a person to be effective in manufacturing production work. The course is intended for students more interested in production than engineering. The course covers customers, quality principles and processes, systems, information in the workplace, the business of manufacturing, and statistical process control.

Credit(s): 2

Course Fee: \$20.00

Pre-Requisites: Recommended for 10th - 11th Grade

T702/T702B Principles of Machining and Manufacturing

Principles of Machining and Manufacturing focuses on the concepts and practices that support careers in manufacturing, industrial maintenance, metrology, automation, industrial design, or industrial support. The course introduces the technology of machining and manufacturing processes. While working as team members, students will apply leadership and organizational skills relating to designing, producing, and maintaining a product. Emphasis is placed on quality control, codes and standards, and production systems. The course is contextual by design. The course connects what is being learned to the learner's current experience, past knowledge, and future conduct. Laboratory exercises provide active and cooperative learning opportunities.

Credit(s): 2 (full year course)

Course Fee: \$20.00

Pre-Requisites: Principles of Manufacturing I; Algebra I or Algebra IT

T703/T704 Manufacturing Applications III A / Manufacturing Applications III B

Manufacturing Applications is a 12th-grade course for students interested in entering the workforce or pursuing higher education in the manufacturing area. The course requires students to solve problems in a real-world manufacturing context. Problems address critical areas identified by industry and supported by relevant national standards. The course is structured as a series of simulation units. The simulations require students to identify problems in a manufacturing company based on data supplied in typical management reports. Students work in teams of four to six. Teams test and refine proposed solutions with computer simulations. All teams work on the same problem concurrently. At the end of each unit, students present team findings and recommendations to the class and to a panel of manufacturing industry representatives, which acts as the board of directors.

Credit(s): 2 (full year course)

Course Fee: \$20.00

Pre-Requisites: Principles of Machining II; Algebra I or Algebra IT

CABINETMAKING

T901 Cabinetmaking I

At the completion of this course, the successful learner will be able to: explore careers available in cabinetry, millwork and manufacturing areas; perform safety examinations and maintain safety records; use appropriate hand and power tools to safely achieve industry accepted results, identify parts of a cabinet and produce a working drawing; demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace; interpret measurements and demonstrate appropriate use of technologies used in machining and manufacturing processes; and use appropriate techniques in wood finish procedures.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Recommended for 10th-12th Grade

T902/T903 Cabinetmaking II A/Cabinetmaking II B

At the completion of this course, the successful learner will be able to: recognize employment opportunities in cabinetry, millwork and manufacturing areas; perform safety examinations and maintain safety records; use appropriate hand and power tools to safely achieve industry accepted results; explore and use computers in the cabinetry field; demonstrate leadership, citizenship, and teamwork skills required for success in the school, community and workplace; demonstrate the appropriate use of technologies used in machining and manufacturing processes; and explore plastic laminates, solid surface, granite, veneers and lamination in cabinetry, millwork, and manufacturing areas.

Credit(s): 2 (full year course)

Course Fee: \$50.00

Pre-Requisites: Cabinetmaking I; Recommended for 11th-12th Grade

T904/T905 Cabinetmaking III A/Cabinetmaking III B Honors

At the completion of this course, the successful learner will be able to: Recognize employment opportunities in cabinetry, millwork and manufacturing areas; perform safety examinations and maintain safety records; use appropriate hand and power tools to safely achieve industry accepted results; explore and use computers in the cabinetry field; demonstrate leadership, citizenship, and teamwork skills required for success in the school, community and workplace; demonstrate the appropriate use of technologies used in machining and manufacturing processes; and explore plastic laminates, solid surface, granite, veneers and lamination in cabinetry, millwork, and manufacturing areas. Students will also participate in installation of cabinets. Students will have the opportunity to visit related trades in the building industry. We will also have extended reading and exploration in the cabinetry field. Students will have the opportunity to do projects in the community.

Credit(s): 2 (full year course)

Course Fee: \$50.00

Pre-Requisites: Cabinetmaking IIA and Cabinetmaking IIB; Recommended for 12th Grade

CONSTRUCTION TECHNOLOGY**T200 Construction Core**

Construction Core is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems.

Credit(s): 1

Course Fee: \$35.00

Pre-Requisites: Recommended for 10th-11th Grade

T201 Carpentry I

Carpentry I is a course that will introduce students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures, in both wood and metal. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters.

Credit(s): 1

Course Fee: \$35.00

Pre-Requisites: Construction Core; Algebra I or Algebra II; Recommended for 10th-12th Grade

T202/T202B Carpentry II

Carpentry II is a course in which students will extend their skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters.

Credit(s): 2 (full year course)

Course Fee: \$35.00

Pre-Requisites: Carpentry I, Geometry or Technical Geometry;
Recommended for 11th-12th Grade

BROADCAST MEDIA**T055 Media Concepts**

Media Concepts is offered for students interested in the Audio and Video Technologies sub-cluster or the Journalism and Broadcasting sub-cluster of the arts and communication cluster. The overlap in these industries is extensive as can be witnessed in television, film, music, radio, newspaper, Web-cast, and entertainment. This entry-level course is designed to prepare students for the medial industry. Course content provides a broad-based exposure to audio, video, journalism, and broadcasting within the media industry. Upon completion of this course, students will be prepared to pursue advanced coursework in audio and video technology or journalism and broadcasting.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: None

T056 Electronic Media Production

Electronic Media Production is offered in the audio and video technology sub-cluster. Course content focuses on electronic media production (EMP) technologies utilizing simulated and/or real-life projects. This course centers on production of various EMP products, including commercials, news, music, interactive, and industrial programming. The student will gain valuable insight into the many facets of EMP production, including, but not limited to, concept creation, scripting, sound design, visual design, engineering, editing, budgeting, and producing, as well as exploring some of the latest advances in industry technology. Upon completion of this course, students will be prepared to pursue advanced coursework.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Media Concepts; Teacher Approval

T057 Electronic Media Management and Operations (Honors available)

Electronic Media Management and Operations is offered in the Journalism and Broadcasting sub-cluster. This course focuses on simulated real-life electronic broadcasting media production and management activities and productions. Projects center on in-house production of newscasts, special events, and original programming. The student will gain valuable insight into both the audio and video sides of the electronic media industry. Course content is composed of scripting, broadcasting, reporting, directing, editing, budgeting, and producing, as well as, cameras, lights, sound, and set design. This course will explore the latest digital technology and applications and research and future trends in the electronic media industry. Upon completion of this course students will be prepared to pursue post-secondary education or enter the electronic media industry in an entry-level position.

Credit(s): 2

Course Fee: \$30.00

Pre-Requisites: Electronic Media Production, and Teacher Approval

PC TECHNOLOGY**T900 Information Technology Foundations**

Information Technology Foundations is designed to prepare students with work-related skills for advancement in the telecommunication and information technology career paths. Content provides students the opportunity to acquire basic foundational knowledge and skills in both theory and practical applications in direct current, alternating current, and power supply circuits. Students also learn the fundamentals of networking concepts for personal computers (PC), networking, determining system requirements, setting up equipment, and performing installation tests for the end user. This course provides the opportunity to evaluate and install peripheral devices and become familiar with operating systems. Students may also acquire basic fundamental skills in both theory and practical applications of language, structure, and typography.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Skills in Keyboarding; Recommended for 10th-12th Grade

T906 Computer Operating Systems II

This course is designed to prepare students with work-related skills and for certification in the computer service technician career path. Content provides students the opportunity to acquire knowledge and skills in both theory and practical applications pertaining to troubleshooting, replacing, installing, and upgrading computers. Procedures used in the course may be hardware oriented, software oriented, or programming oriented. Upon completion of the course students will possess a thorough knowledge of modern personal computer hardware and software structure and be able to take the A + Certification exam.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Information Technology Foundations, Algebra I or Technical Algebra (may be concurrent), Recommended for 10th-12th Grade

T907/T908 Networking/Cabling Technology Honors

Networking is a part of the Arts and Communication Cluster. This course stresses the conceptual and practical skills necessary to design and manage networks. Course content, which is of the project-based format, allows students to interconnect workstations, peripherals, terminals, and other networking devices creating an integrated system where all devices speak the same language or protocol. The course will help prepare students to design, build, and maintain computer networks. The networking sub-cluster will help prepare students for the Network + examination and cover many areas of the Cisco Certified Networking Associates exam. Cabling Technology is a part of the information technology infrastructure sub cluster, and it is designed to equip technicians with the fundamental knowledge, skills, and abilities necessary to install, troubleshoot, and maintain today's networks.

Credit(s): 2

Course Fee: \$20.00

Pre-Requisites: Computer Operating Systems and Hardware, Algebra I or Technical Algebra, Recommended for 11th-12th Grade

TRANSPORTATION SERVICE/COLLISION REPAIR**T100 Transportation Core**

The Transportation Core course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Recommended for 10th-11th Grade

T108 Collision Repair Non-Structural

Collision Repair: Non-Structural is a course that prepares students to analyze non-structural collision damage to a vehicle, determine the extent of the damage and the direction of impact, initiate an appropriate repair plan, and correctly use equipment to fit metal to a specified dimension within tolerances. Course content includes metal finishing, body filling and glass panel replacements. The course prepares students for entry level employment and advanced training in collision repair technology, and post secondary education.

Credit(s): 1

Course Fee: \$30.00

Pre-Requisites: Transportation Core; Recommended for 10th-12th Grade

T110 and T120 Collision Painting and Refinishing I and II

Collision Repair: Painting and Refinishing I and II is a course that prepares students to use plastics and adhesives in the repair and refinish processes and to apply automotive paint to a vehicle. Students learn to diagnose automotive paint finish problems and to perform the appropriate manufacturer-required techniques and processes to refinish the affected area or the complete vehicle. Course content provides the student with training in mixing, matching, and applying paint and finish to vehicles. Course content includes the application of plastics and adhesives in the repair and refinish processes. The course prepares students for entry level employment and advanced training in collision repair technology and post secondary education. Students completing the Collision Repair: Painting and Refinishing I and II are eligible to take the ASE written examination for Paint and Refinish and for Plastics and Adhesives.

Credit(s): 2 (full year course)

Course Fee: \$40.00

Pre-Requisites: Collision Repair Non Structural; Recommended for 11th-12th Grade

TRANSPORTATION SERVICE/AUTOMOTIVE**T101 Automotive Transportation Core**

The Automotive Transportation Core course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills. Upon completing this course students may enter automotive service technology, diesel equipment maintenance technology, leisure craft/small engine service technology, collision repair and refinish technology, or aviation maintenance

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Recommended for 10th-11th Grade

T103 Automotive Brake Systems

Automotive: Brake Systems course offers training in the diagnosis and repair of hydraulic, mechanical, and electrical systems used in standard and anti-lock brake systems. Course content includes diagnosis, repair, and/or service technology of hydraulic and antilock brake systems to original equipment manufacture (OEM) specifications. Educational experiences simulate automotive service industry operations through training aids, laboratory facilities, and school-based learning opportunities.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Transportation Core; Recommended for 10th-11th Grade

T104 Automotive Suspension and Steering

Automotive: Suspension and Steering is a course that prepares students for entry-level positions or advanced training in automotive suspension and steering systems. Course material covers the principles of automotive suspension/steering systems and four-wheel suspension alignment. Course content provides the student the opportunity to acquire marketable skills by training in wheel alignment and the testing, diagnosis, and repair of steering and suspension systems. Lab facilities and experiences simulate automotive service industry operations through the use of training aids and modules and school-based learning opportunities.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Automotive Brake Systems, Recommended for 10th-11th Grade

T105 Automotive Electronics Systems

Automotive: Electronics is a course that prepares students for entry-level positions or advanced training in automotive electrical and electronics systems. Students apply principles of electronics to automotive technology and develop diagnostic skills. The course provides students the opportunity to acquire marketable skills by training in the use of digital and analog voltmeters, ohmmeters, and amp-meters; as well as oscilloscopes, test-lights, load-testers and specialized electrical test equipment. Education experiences simulate automotive service industry operations through the use of training aids and modules and school-based learning opportunities.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Brake Systems, Suspension and Steering, Recommended for 11th-12th Grade

T106 Automotive Engine Performance

Automotive: Engine Performance is a course that prepares students for entry-level positions or advanced training in engine performance. The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals that will identify the different types of sensors used by automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. Education and experiences simulate automotive service industry operations through the use of training aids and modules and offer school-based learning opportunities.

Credit(s): 1

Course Fee: \$25.00

Pre-Requisites: Electronics Systems, Recommended for 11th-12th Grade

T107 Automotive Work-Based Learning

Automotive Work-Based Learning is on the job experience. Students have the opportunity to work in an automotive-related job and earn credit. Student will be required to check-in with Automotive Instructor and meet course requirements as designated by instructor.

Credit(s): 1

Course Fee: N/A

Pre-Requisites: Recommended for 12th Grade; Approval of Instructor

DUAL ENROLLMENT COURSES (Courses offered on BCHS campus)

Requirements: Student must have at least a 19 on the ACT and at least a 3.0 GPA.

E112 English 12 DE / Comp. I

English 12 DE / Comp. I is a college level course taught in cooperation with Cleveland State Community College. The curriculum for this course emphasizes writing expository and persuasive essays along with a survey of British Literature. Seven essays, totaling a minimum of 3000 words, are required. A study of the principles of rhetoric, sentence structure, diction, etc. complements the instruction in composition. Literary selections of various genres, including Shakespeare and Chaucer, complete the literary emphasis.

Credit(s): 1

Course Fee: \$5.00, tuition cost of Cleveland State, and cost of paperback books

Pre-Requisites: Must be in 12th Grade; 3.0 GPA, minimum composite score and English score of 19 on ACT; Teacher Recommendation

E113 English 12 DE / Comp. II

English 12 DE / Comp. II is a college level course taught in cooperation with Cleveland State Community College. The curriculum emphasizes writing literary analyses of various major selections of world literature. Five essays of critique and / or explication must be written dealing with drama, fiction, and poetry. A literary research paper of a minimum of 1000 words is also required. Rhetorical skills are emphasized, including style, diction, effective sentence structure, etc. Vocabulary study complements the course.

Credit(s): 1

Course Fee: \$5.00, tuition cost of Cleveland State, and cost of paperback books

Pre-Requisites: Must be in 12th Grade; Minimum C-average in English 12 DE / Comp. I; Teacher Recommendation

M118 College Algebra DE

College Algebra is a college-level mathematics course that is taught in conjunction with Cleveland State Community College. Topics covered include: functions (including linear, quadratic, exponential, and logarithmic); analysis of graphs; linear systems, inequalities, counting principles; and probability.

Credit(s): 1

Course Fee: \$2.00 plus Tuition Cost of Cleveland State

Pre-Requisites: Algebra II and Geometry; Must be in 11th or 12th Grade; Must have at least a 19 on the ACT and at least a 3.0 GPA

Bradley Central High School

1000 South Lee Highway
Cleveland, TN 37311

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www.bradleyhigh.com

Todd Shoemaker – Principal
Angie Neely – Assistant Principal (10th – 12th Grade)
Greg Geren – Assistant Principal (10th – 12th Grade)
Martha Frazier – Assistant Principal (9th Grade)

Robin Hamilton – 12th Grade Counselor
Sandy Akiona – 10th Grade Counselor
Melissa Presswood – 9th Grade Counselor
Amanda Turner – 11th Grade Counselor

